

Compaq Computer Corporation

TPC Benchmark™ C
Full Disclosure Report
for
ProLiant 8000
using
Microsoft SQL Server 7.0 Enterprise Edition
and
Windows NT 4.0 Enterprise Edition

First Edition
July 1999

COMPAQ

First Edition – July 1999

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Preface

The TPC Benchmark C was developed by the Transaction Processing Performance Council (TPC). The TPC was founded to define transaction processing benchmarks and to disseminate objective, verifiable performance data to the industry. This full disclosure report is based on the TPC Benchmark C Standard Specifications Version 3.4, released August 25, 1998.

TPC Benchmark C Overview

The TPC describes this benchmark in Clause 0.1 of the specifications as follows:

TPC Benchmark C is an On Line Transaction Processing (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 of 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 applications, 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 other environments are not recommended.

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-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.

Abstract

Overview

This report documents the methodology and results of the TPC Benchmark C test conducted on the Compaq ProLiant 8000. The operating system used for the benchmark was Windows NT 4.0 Enterprise Edition with Service Pack 4. The DBMS used was Microsoft SQL Server 7.0 Enterprise Edition.

TPC Benchmark C Metrics

The standard TPC Benchmark C metrics, tpmC (transactions per minute), price per tpmC (five year capital cost per measured tpmC), and the availability date are reported as:

40013.30 tpmC
\$18.86 per tpmC

The availability date is December 31, 1999.

Hardware availability date is August 15, 1999.

Standard and Executive Summary Statements

The following pages contain executive summary of results for this benchmark.

Auditor

The benchmark configuration, environment and methodology were audited by Tom Sawyer of Performance Metrics, Inc. to verify compliance with the relevant TPC specifications.

Compaq Computer Corporation		Proliant 8000		TPC-C Rev. 3.4	
Corporation		C/S with 3 Proliant 1600		Report Date: Jul 12, 1999	

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$754,744	40013.30	\$18.86	Dec 31, 1999*

Processors	Database Manager	Operating System	Other Software	Number of Users
8 Pentium III Xeon 550 MHz	Microsoft SQL Server 7.0 SP2 Enterprise Edition	Windows NT 4.0 Enterprise Edition (SP4)	Microsoft Visual C++ MKS Toolkit for NT Microsoft COM+	32400

32400 PCs

9X Compaq SMART 4200 Array Controllers
34 XSTRANAWRKE EN10019191 Model 42114P

252 X 9.1 GB P4Kggable Drives (external) +
224 X 4.3 GB EDUggab Drives (external) +
1 X 4.3 GB 72000 (internal)

System Components	Quantity	Description	Quantity	Description
				Each Client
Processor	8	550MHz PentiumIII Xeon w/ 2MB Cache	2	500MhzPentium II w/ 512K cache
Memory	16	256MB	4	128MB
Disk Controllers	9	SMART 4200 Array Controller	1	Integrated Ultra SCSI Controller
Disk Drives	252 225	9.1GB SCSI Drive 4.3GB SCSI Drive	1	4.3GB SCSI Drive
Total Storage		5.0928 Terabytes		4.3GB
Tape Drives	1	4/16 TurboDAT		

* Hardware availability date is August 15, 1999

Compaq Computer Corporation		Proliant 8000-550/2M		Client/Server		TPC-C Rev. 3.4		Report Date: 12-Jul-99	
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	5 Yr. Maint. Price			
Server Hardware									
Proliant 8000-550/2M	303900-001		66,080	1	66,080				
- 4 Pentium III Xeon/550MHz 2MB Cache									
- 2 GB SD RAM Memory									
- CD-ROM 24X									
- 10/100 Ethernet Controller									
Proliant Pentium III Xeon 550 - 2MB Cache Processor Kit	3228814-B21		6,720	4	26,880				
512MB SD RAM Memory Kit (2 x 256MB)	238807-B21		1,982	4	7,930				
Compaq SMART Array Controller 4200	295636-B21		2,218	9	19,958				
StorageWorks Enclosure Model 4214R	103381-001		2,576	34	87,584				
4.3-GB Fast SCSI-2 7200 RPM Drive	199580-001		447	1	447				
Compaq VGA V55 Color Monitor	308006-001		240	1	240				
48GB DAT Drive	295353-B21		703	1	703				
Compaq Rack Model 7142	165753-001		1,680	3	5,040				
Compaq Rack Coupling Kit	165664-001		152	2	305				
Compaq Rack SideWall Kit	165652-001		208	1	208				
4.3 GB Hot-Ping SCSI-3 Drive - 10K	336356-B21		503	224	112,645				
9.1 GB Hot-Ping SCSI-3 Drive - 10K	336357-B21		839	252	211,398				
Proliant Enterprise Server - Parts Exchange - 1 Year	FM-HEPRT-12		597	2		1,194			
Proliant Storage System - Parts Exchange - 1 Year	FM-STPRT-12		255	68		17,340			
Oracle 5x8 4 Hr Service Upgrade from Compaq Standard Service	Allstar			1		43,153			
				Subtotal	539,418	61,687			
Server Software									
Microsoft SQL Server 7.0 Enterprise	Microsoft	2	28,999	1	28,999	10,475			
MKS Toolkit for NT	MKS	1	499	1	499	5 Yr. WTY			
Microsoft Visual C++ 6.0	Microsoft	2	549	1	549	Incl Above			
Microsoft Windows NT Enterprise v. 4.0	Microsoft	2	3,999	1	3,999	Incl Above			
				Subtotal	34,046	10,475			
Client Hardware									
Proliant 1600 6/500 - 128MB, 100TX Nic	386746-001		2,685	5	13,423				
Proliant 1600 6/500 Processor Option Kit	401268-B21		1,399	5	6,994				
128-Megabyte SD DIMM Kit	313615-B21		327	15	4,905				
Compaq VGA V55 Color Monitor	308006-001		240	5	1,198				
4.3GB Wide Ultra2 SCSI Hrd Drive	349513-B21		469	5	2,346				
Proliant Workgroup Server - Parts Exchange - 1 Year	FM-LOPRT-12		259	10		2,590			
Onsite 5x8 4 Hr Service Upgrade from Compaq Standard Service	Allstar			1		2,309			
				Subtotal	28,868	4,899			
Client Software									
Microsoft Windows 2000 Server	Microsoft	2	809	5	4,045	Incl. Above			
				Subtotal	4,045	0			
User Connectivity									
Compaq Dual Speed Switch SW3322	355310-B21	Compaq	2,944	4	11,778	See Note 1			
8-port 10BaseT Hub	Generic		29.00	4461	129,369	See Note 1			
				Subtotal	141,147	0			
				Subtotal	683,849	(\$5,993)			
				Total	\$683,675	\$71,069			
				Five-Year Cost of Ownership: \$754,744					
				IpMC Rating: 4001 3.30					
				\$ / IpMC: \$18.86					

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 assumptions 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 benchmark pricing 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.

Pricing: 1=Allstar Systems 2=Microsoft
NOTE 1 = 5 Year WARRANTY with 10% SPOCIES -

Note: The benchmark results and test methodology were qualified by Tom Sawyer of Performance Metrics, Inc.

Numerical Quantities Summary

MQTH, Computed Maximum Qualified Throughput 40013.30pmc

% throughput difference, reported & reproducibility runs 0.10%

Response Times (in seconds)	Average	90%	Maximum
New-Order	0.77	1.24	8.42
Payment	0.33	0.54	5.92
Order-Status	0.22	0.28	3.28
Delivery (interactive portion)	0.11	0.13	0.48
Delivery (deferred portion)	0.54	0.74	2.28
Stock-Level	1.97	2.56	6.93
Menu	0.11	0.13	0.75
Transaction Mix, in percent of total transaction			
New-Order			44.78%
Payment			43.08%
Order-Status			4.04%
Delivery			4.06%
Stock-Level			4.04%
Emulation Delay (in seconds)			
New-Order		0.10	0.10
Payment		0.10	0.10
Order-Status		0.10	0.10
Delivery (interactive)		0.10	0.10
Stock-Level		0.10	0.10
Keying/Think Times (in seconds)			
New-Order	18.00/0.00	18.00/12.10	18.05/121.21
Payment	3.00/0.00	3.01/12.09	3.09/121.10
Order-Status	2.00/0.00	2.01/10.09	2.08/101.00
Delivery (interactive)	2.00/0.00	2.01/5.05	2.04/49.82
Stock-Level	2.00/0.00	2.01/5.05	2.05/50.50
Test Duration			
Ramp-up time			33 minutes
Measurement interval			20 minutes
Transactions (all types) completed during measurement interval			1779075
Ramp down time			20 minutes
Checkpointing			
Number of checkpoints			1
Checkpoint interval			20 minutes

General Items

Test Sponsor

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

This benchmark was sponsored by Compaq Computer Corporation. The benchmark was developed and engineered by Compaq Computer Corporation. Testing took place at Compaq benchmarking laboratories in Houston, Texas.

Application Code and Definition Statements

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

Appendix A contains all source code implemented in this benchmark.

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 by not limited to:

- Database options
- Recover/commit options
- Consistency locking options
- Operating system and application configuration parameters

This requirement can be satisfied by providing a full list of all parameters.

Appendix C contains the tunable parameters to for the database, the operating system, and the transaction monitor.

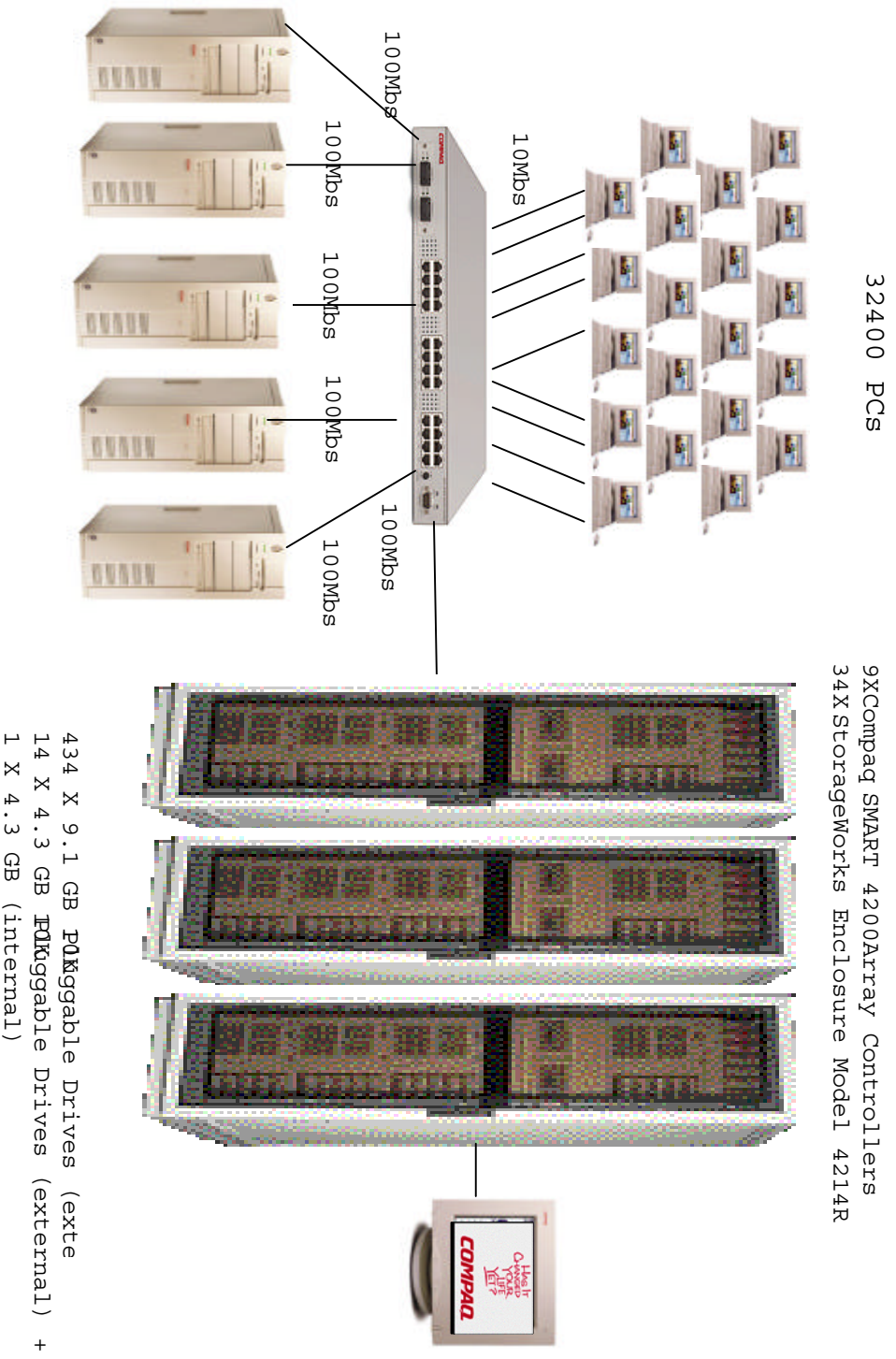
Configuration Items

Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences.

The configuration diagrams for both the tested and priced systems are included on the following pages.

Figure 1. Benchmarked Configuration

Compaq Proliant 8000-550/2M



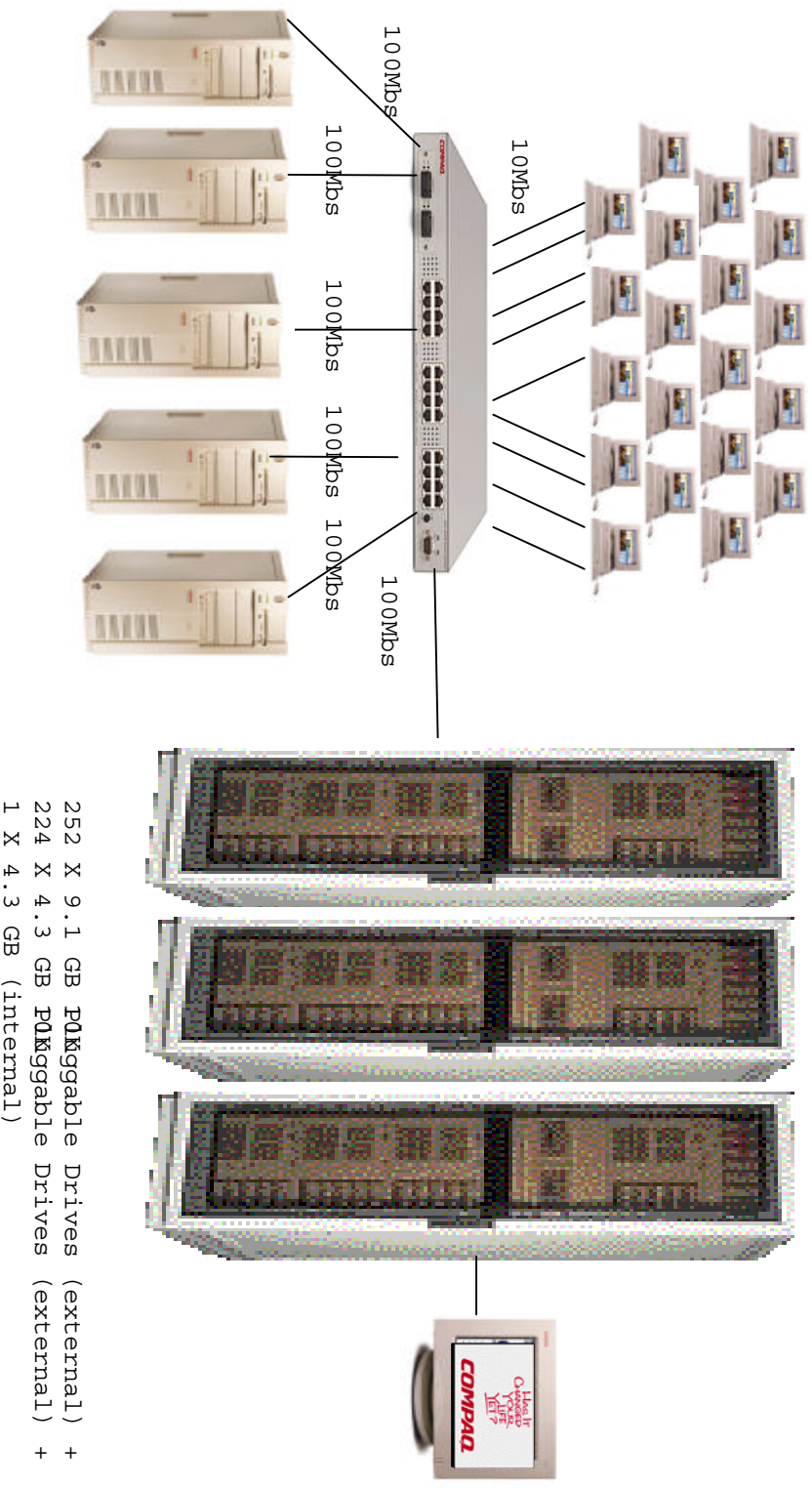
434 X 9.1 GB P0Kkggagle Drives (exte
14 X 4.3 GB F0Kkggagle Drives (external) +
1 X 4.3 GB (internal)

Figure 2 . Priced Configuration

Compaq Proliant 8000-550/2M

32400 PCs

9XCompaq SMART 4200Array Control11
34X SorageWorks Enclosure Model 4214R



Clause 1 Related Items

Table Definitions

Listing must be provided for all table definition statements and all other statements used to set up the database.

Appendix B contains the code used to define and load the database tables.

Physical Organization of Database

The physical organization of tables and indices within the database must be disclosed.

The tested configuration consisted of: 434 drives at 9.1GB, 14 drives at 4.3 GB each and 1 drive at 4.3GB each.

Benchmarked Configuration :

Embedded Controller 1	<u>Total Capacity = 39 MB</u>	
<u>EISA UTILITIES PARTITION</u>		
Compaq System Configuration Utilities		
<u>LOGICAL DRIVE C:</u>	<u>Total Capacity = 4055 MB</u>	
Microsoft Windows NT v. 4.0		
SMART-4200 Controller, Slot 2, Array A		
<u>LOGICAL DRIVE G:</u>	<u>Total Capacity = 26000 MB</u>	<u>RAID 0</u>
Big_fg		
<u>LOGICAL DRIVE O:</u>	<u>Total Capacity = 12000 MB</u>	<u>RAID 0</u>
Misc_fg		
<u>LOGICAL DRIVE U:</u>	<u>Total Capacity = 399993 MB</u>	<u>RAID 0</u>
TpcBackup1		
SMART-4200 Controller, Slot 3, Array A		
<u>LOGICAL DRIVE H:</u>	<u>Total Capacity = 26000 MB</u>	<u>RAID 0</u>
Big_fg		
<u>LOGICAL DRIVE P:</u>	<u>Total Capacity = 12000 MB</u>	<u>RAID 0</u>
Misc_fg		
<u>LOGICAL DRIVE W:</u>	<u>Total Capacity = 399993 MB</u>	<u>RAID 0</u>
TpcBackup2		
SMART-4200 Controller, Slot 4, Array B		
<u>LOGICAL DRIVE I:</u>	<u>Total Capacity = 26000 MB</u>	<u>RAID 0</u>
Big_fg		
<u>LOGICAL DRIVE Q:</u>	<u>Total Capacity = 12000 MB</u>	<u>RAID 0</u>
Misc_fg		
SMART-4200 Controller, Slot 5, Array A		
<u>LOGICAL DRIVE J:</u>	<u>Total Capacity = 26000 MB</u>	<u>RAID 0</u>
Big_fg		
<u>LOGICAL DRIVE R:</u>	<u>Total Capacity = 12000 MB</u>	<u>RAID 0</u>
Misc_fg		
SMART-4200 Controller, Slot 6, Array B		

<u>LOGICAL DRIVE K:</u>	<u>Total Capacity = 26000 MB</u>	<u>RAID 0</u>
<u>Big_fg</u>		
<u>LOGICAL DRIVE S:</u>	<u>Total Capacity = 12000 MB</u>	<u>RAID 0</u>
<u>Misc_fg</u>		
SMART-4200 Controller, Slot 7, Array A		
<u>LOGICAL DRIVE L:</u>	<u>Total Capacity = 26000 MB</u>	<u>RAID 0</u>
<u>Big_fg</u>		
<u>LOGICAL DRIVE T:</u>	<u>Total Capacity = 12000 MB</u>	<u>RAID 0</u>
<u>Misc_fg</u>		
SMART-4200 Controller, Slot 8, Array B		
<u>LOGICAL DRIVE M:</u>	<u>Total Capacity = 26000 MB</u>	<u>RAID 0</u>
<u>Big_fg</u>		
<u>LOGICAL DRIVE Y:</u>	<u>Total Capacity = 12000 MB</u>	<u>RAID 0</u>
<u>Misc_fg</u>		
SMART-4200 Controller, Slot 10, Array B		
<u>LOGICAL DRIVE N:</u>	<u>Total Capacity = 26000 MB</u>	<u>RAID 0</u>
<u>Big_fg</u>		
<u>LOGICAL DRIVE Z:</u>	<u>Total Capacity = 12000 MB</u>	<u>RAID 0</u>
<u>Misc_fg</u>		
SMART Controller, Slot 11, Array A		
<u>LOGICAL DRIVE F:</u>	<u>Total Capacity = 95000 MB</u>	<u>RAID 1</u>
Tpcelog		

Priced Configuration vs. Measured Configuration:

The measured configuration has the backup devices stored on 9.1GB drives, whereas the priced configuration has tape drives for backup. The measured configuration had 434 9.1GB 10K drives and 14 4.3GB 10K drives, whereas the priced configuration had 252 9.1GB 10K drives and 224 4.3GB 10K drives.

Insert and 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 restrictions 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 minimum key value for these new rows.

All insert and delete functions were fully operational during the entire benchmark.

Partitioning

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

No partitioning was used in this benchmark.

Replication, Duplication or Additions

Replication of tables, if used, must be disclosed. Additional and/or duplicated attributes in any table must be disclosed along with a statement on the impact on performance.

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

Clause 2 Related Items

Random Number Generation

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

In the Benchmark RTE from Microsoft, each driver engine uses an independent random number sequence. All of the users within a given driver draw from the same sequence.

The Benchmark RTE computes random integers as described in "Random Numbers Generators: Good Ones Are Hard to Find." Communications of the ACM - October 1988 Volume 31 Number 10.

The seeds for each user were captured and verified by the auditor to be unique. In addition, the contents of the database were systematically searched, and randomly sampled by the auditor for patterns that would indicate the random number generator had effected any kind of a discernible pattern; none were found.

Input/Output Screen Layout

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

All screen layouts followed the specifications exactly.

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).

The terminal attributes were verified by the auditor manually exercising each specification on a representative Compaq ProLiant 1600 server.

Presentation Manager or Intelligent Terminal

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

Application code running on the client machines implemented the TPC-C user interface. No presentation manager software or intelligent terminal features were used. The source code for the forms applications is listed in Appendix A.

Transaction Statistics

Table 2.1 lists the numerical quantities that Clauses 8.1.3.5 to 8.1.3.11 require.

Table 2. Transaction Statistics

Statistic	Value
New Order	99.00%
Home warehouse order lines	1.00%
Remote warehouse order lines	1.00%
Rolled back transactions	10.00
Average items per order	84.99%
Payment	15.01%
Home warehouse payments	59.97%
Remote warehouse payments	

	Statistic	Value
	Accessed by last name	
Order Status	Accessed by last name	59.75%
Transaction Mix	New Order	44.78%
	Payment	43.08%
	Order status	4.04%
	Delivery	4.06%
	Stock level	4.04%

Queuing Mechanism

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

The deferred delivery operation is queued by making an entry in an array within the application process (tpcc.dtl) running on the middle tier machines. Background threads within the application process asynchronously process the queued delivery transactions.

The source code is listed in Appendix A.

Clause 3 Related Items

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.

All ACID property tests were successful. The executions are described below.

Atomicity

The system under test must guarantee that the database 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.

Completed Transactions

A row was selected in a script from the warehouse, district and customer tables, and the balances noted. A payment transaction was started with the same warehouse, district and customer identifiers and a known amount. The payment transaction was committed and the rows were verified to contain correctly updated balances.

Aborted Transactions

A row was selected in a script from the warehouse, district and customer tables, and the balances noted. A payment transaction was started with the same warehouse, district and customer identifiers and a known amount. The payment transaction was rolled back and the rows were verified to contain the original balances.

Consistency

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

Consistency conditions one through four were tested using a shell script to issue queries to the database. The results of the queries verified that the database was consistent for all four tests.

A run was executed under full load lasting over an hour and included a checkpoint.

The shell script was executed again. The result of the same queries verified that the database remained consistent after the run.

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.

Isolation tests one through seven were executed using shell scripts to issue queries to the database. Each script included timestamps to demonstrate the concurrency of operations. The results of the queries were captured to files. The captured files were verified by the auditor to demonstrate the required isolation had been met.

In addition, the phantom tests and the stock level tests were executed and verified.

For Isolation test seven, case A was followed.

Durability

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

Durable Media Failure

Durability from media failure was demonstrated on a database scaled for 10 warehouses on a similar Proliant system. The standard driving mechanism was used to generate the transaction load of 100 users. The fully scaled database under full load would also have passed the following test. Loss of data and loss of log were combined in the same test.

Loss of Data and Log

To demonstrate recovery from a permanent failure of durable medium containing DBMS logs and TPC-C tables, the following steps were executed:

- The database was backed up to extra disks.
- The total number of New Orders was determined by the sum of D_NEXT_O_ID of all rows in the DISTRICT table giving the beginning count.
- The RTE was started with 100 users.
- The test was allowed to run for a minimum of 10 minutes.
- One log disk was removed from the drive cabinet.
- Since the disk was mirrored, processing was not interrupted. This was verified by checking the users status on the RTE.
- One of the data disks was removed from the drive cabinet.
- When Microsoft SQL Server recorded errors about not being able to access the database, the RTE was shut down.
- A dump of the transaction log was taken and the Microsoft SQL Server was shutdown.
- A new log disk was inserted into the log drive cabinet. A new data disk was inserted into the data drive cabinet. Both cabinets were powered back up and system restarted.
- Microsoft SQL Server was started.
- The database was automatically recovered from the database backup and the transaction log dump.
- Consistency condition #3 was executed and verified.
- Step 2 was repeated and the difference between the first and second counts was noted.
- An RTE report was generated for the entire run time giving the number of NEW-ORDERS successfully returned to the RTE.
- The counts in step 12 and 13 were compared and the results verified that all committed transactions had been successfully recovered.
- Samples were taken from the RTE files and used to query the database to demonstrate successful transactions had corresponding rows in the ORDER table.

Instantaneous Interruption and Loss of Memory

Because loss of power erases the contents of memory, the instantaneous interruption and the loss of memory tests were combined into a single test. This test was executed on a fully scaled database of 3240 warehouses under a full load of 32400 users. The following steps were executed:

- The total number of New Orders was determined by the sum of D_NEXT_O_ID of all rows in the DISTRICT table giving the beginning count.
- The RTE was started with 32400 users.
- The test was allowed to run for a minimum of 10 minutes.
- A checkpoint was performed.
- System crash and loss of memory were induced by switching the power off. No battery backup or Uninterruptible Power Supply (UPS) were used to preserve the contents of memory.
- The RTE was shutdown.

- Power was restored and the system restarted.
- Microsoft SQL Server was restarted and performed an automatic recovery.
- Consistency condition #3 was executed and verified.
- Step 1 was repeated and the difference between the first and second counts was noted.
- An RTE report was generated for the entire run time giving the number of NEW-ORDERS successfully returned to the RTE.
- The counts in step 9 and 10 were compared and the results verified that all committed transactions had been successfully recovered.

Samples were taken from the RTE files and used to query the database to demonstrate successful transactions had corresponding rows in the ORDER table.

Clause 4 Related Items

Initial Cardinality of Tables

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

Table 4. Number of Rows for Server

Table	Cardinality as built
Warehouse	3250
District	32,500
Customer	97,500,000
History	97,500,000
Orders	97,500,000
New Order	29,250,000
Order Line	975,000,000
Stock	325,000,000
Item	100,000
Deleted Warehouses	10

Database Layout

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

The benchmarked configuration used 9 SMART-4200 Array controllers, each with 4 SCSI channels. Each controller is capable of accessing up to 56 disk drives per array, 14 disk drives per each channel, and supports RAID 0 and RAID 1 per each logical volume configured. The data tables were stored on 16 logical volumes of 56 drives each (i.e. 2 logical volumes on each controller array of 56 drives). Each data volume was configured with RAID 0 and the Array Accelerator was disabled for all the volumes. One logical volume of 28 9GB drives was configured as a RAID 1 and stored the transaction log. The transaction log volumes had the Array Accelerator disabled. The operating system was stored on a 4.3GB drive on the embedded SCSI channel. All RAID volumes used hardware RAID.

Section 1.2 of this report details the distribution of database tables across all disks. The code that creates the filegroups and tables is included in Appendix B.

Type of Database

A statement must be provided that describes:

- *The data model implemented by DBMS used (e.g. relational, network, hierarchical).*

- *The database interface (e.g. embedded, call level) and access language (e.g. SQL, DLI, COBOL read/write used to implement the TPC-C transaction. 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 7.0 Enterprise Edition is a relational DBMS.

The interface used was Microsoft SQL Server stored procedures accessed with Remote Procedure Calls embedded in C code.

Database Mapping

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

The database was not replicated.

180 Day Space

Details of the 180 day space computations along with proof that the database is configured to sustain 8 hours of growth for the dynamic tables (Order, Order-Line, and History) must be disclosed.

To calculate the space required to sustain the database log for 8 hours of growth at steady state, the following steps were followed:

- The free space on the log file was queried using *DBCC checktable(syslogs)*.
- Transactions were run against the database with a full load of users.
- The free space was again queried using *DBCC checktable(syslogs)*.
- The space used was calculated as the difference between the first and second query.
- The number of NEW-ORDERS was verified from an RTE report covering the entire run.
- The space used was divided by the number of NEW-ORDERS giving a space used per NEW-ORDER transaction.
- The space used per transaction was multiplied by the measured tpmC rate times 480 minutes.

The same methodology was used to compute growth requirements for dynamic tables Order, Order-Line and History.

The details of both the 8-hour transaction log space requirement and the 180-day space requirement is shown in Appendix D.

Clause 5 Related Items

Throughput

Measured tpmC must be reported

Measured tpmC 40013.30 tpmC
Price per tpmC \$18.86 per tpmC

Response Times

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

Table 2:. Response Times

Type	Average	90 th %	Maximum
New-Order	0.77	1.24	8.42
Payment	0.33	0.54	5.92
Order-Status	0.22	0.28	3.28
Interactive Delivery	0.11	0.13	0.48
Deferred Delivery	0.54	0.74	2.28
Stock-Level	1.97	2.56	6.93
Menu	0.11	0.13	0.75

Keying and Think Times

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

Table 3:. Keying Times

Type	Minimum	Average	Maximum
New-Order	18.00	18.00	18.05
Payment	3.00	3.01	3.09
Order-Status	2.00	2.01	2.08
Interactive Delivery	2.00	2.01	2.04
Stock-Level	2.00	2.01	2.05

Table 5:. Think Times

Type	Minimum	Average	Maximum
New-Order	0.00	12.10	121.21
Payment	0.00	12.09	121.10
Order-Status	0.00	10.09	101.00
Interactive Delivery	0.00	5.05	49.82
Stock-Level	0.00	5.05	50.50

Response Time Frequency Distribution Curves and Other Graphs

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

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

Think Time frequency distribution curves (see Clause 5.6.3) must be reported for each transaction type.

Keying Time frequency distribution curves (see Clause 5.6.4) must be reported for each transaction type.

A graph of throughput versus elapsed time (see Clause 5.6.5) must be reported for the New-Order transaction.

Figure 3 . New Order Response Time Distribution

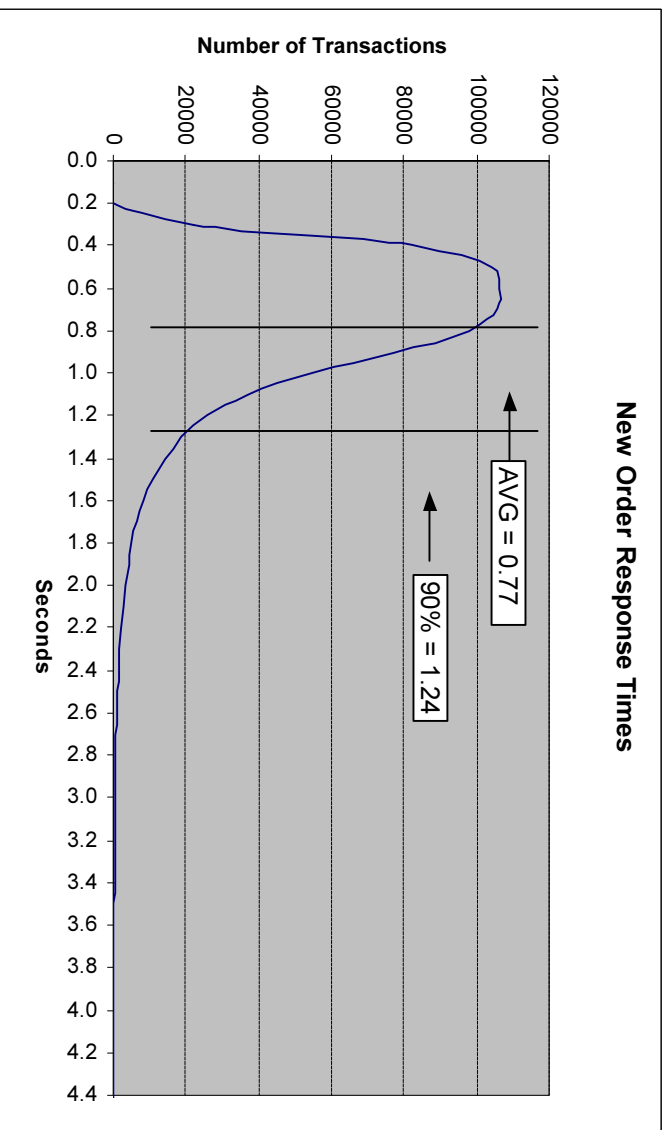


Figure 4 . Payment Response Time Distribution

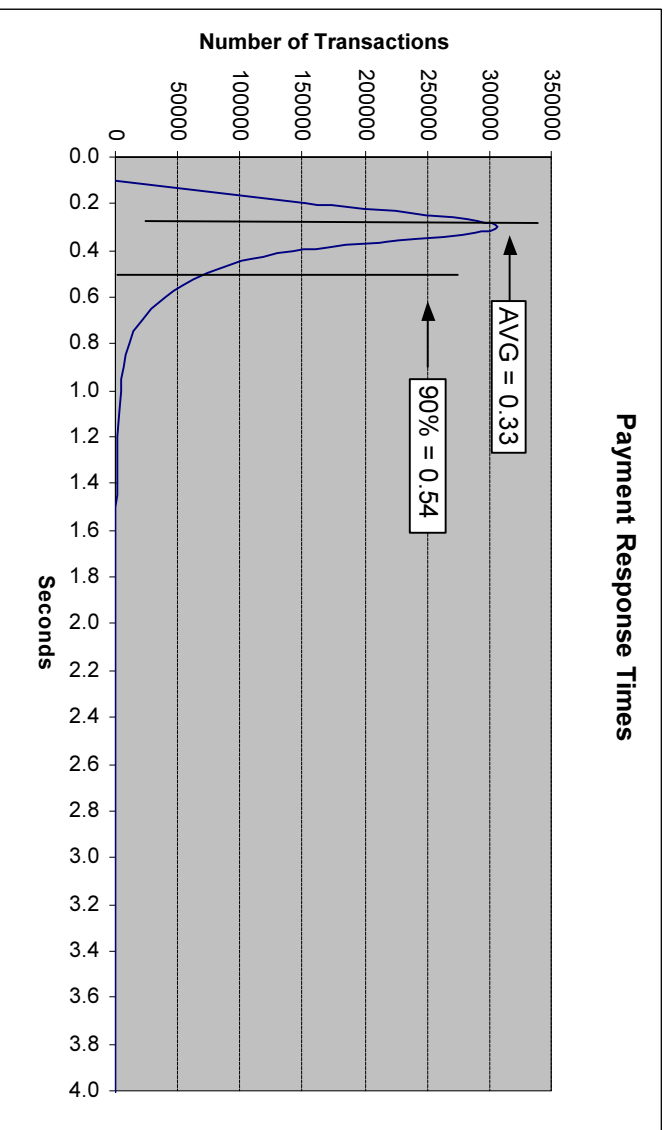


Figure 5. Order Status Response Time Distribution

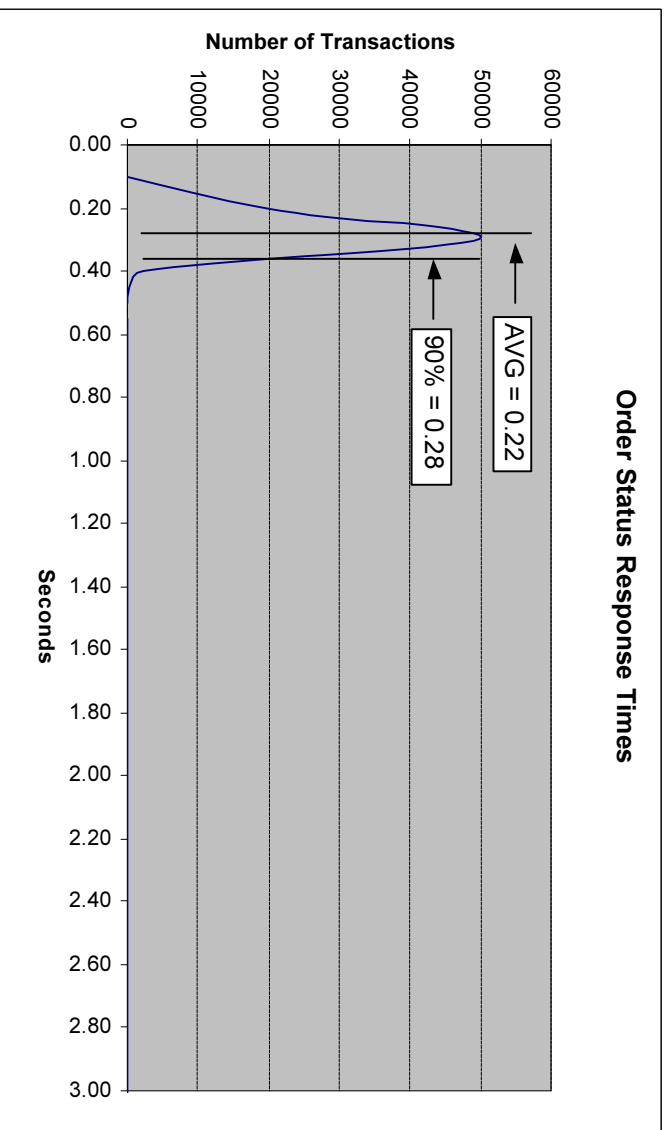


Figure 6. Delivery Response Time Distribution

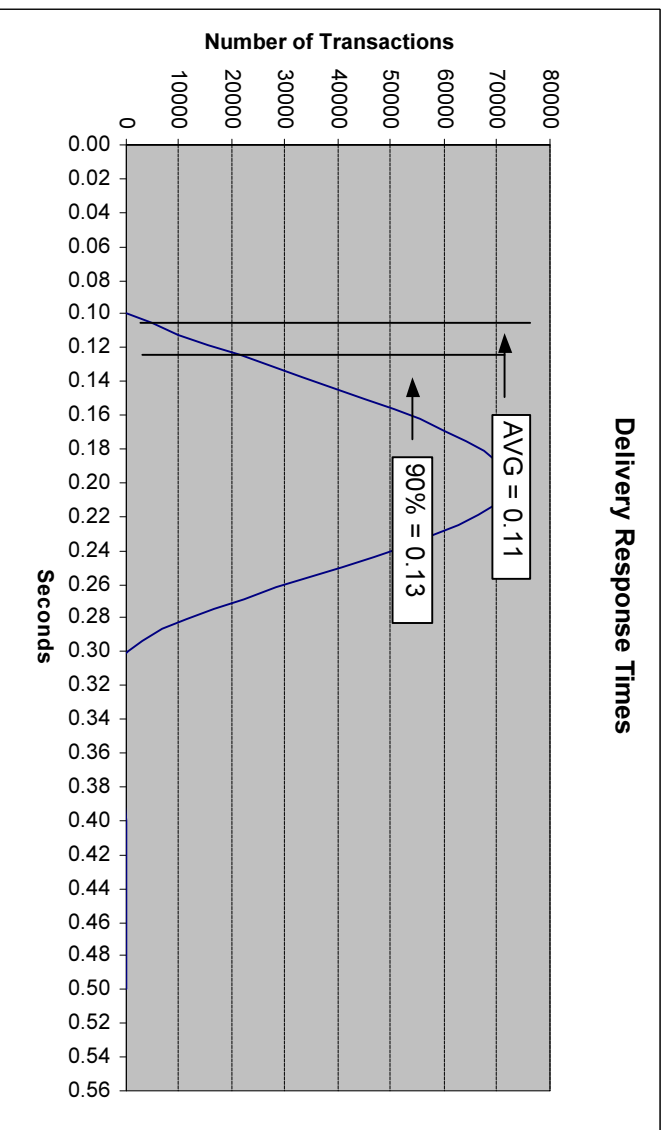


Figure 7. Stock Level Response Time Distribution

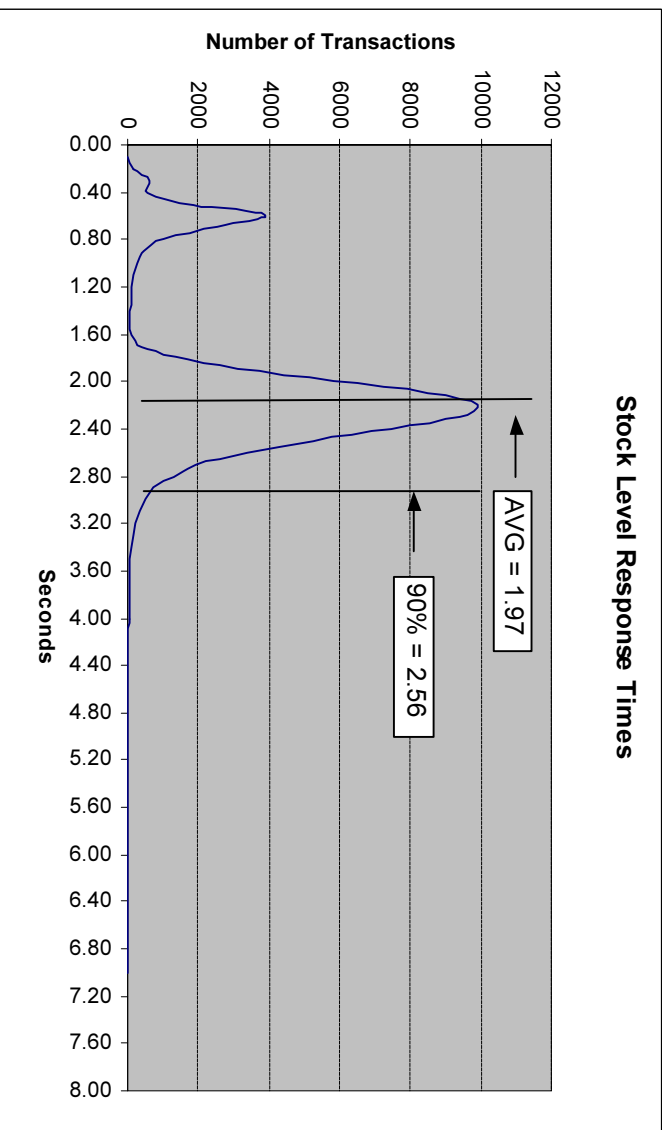


Figure 8. Response Time vs. Throughput

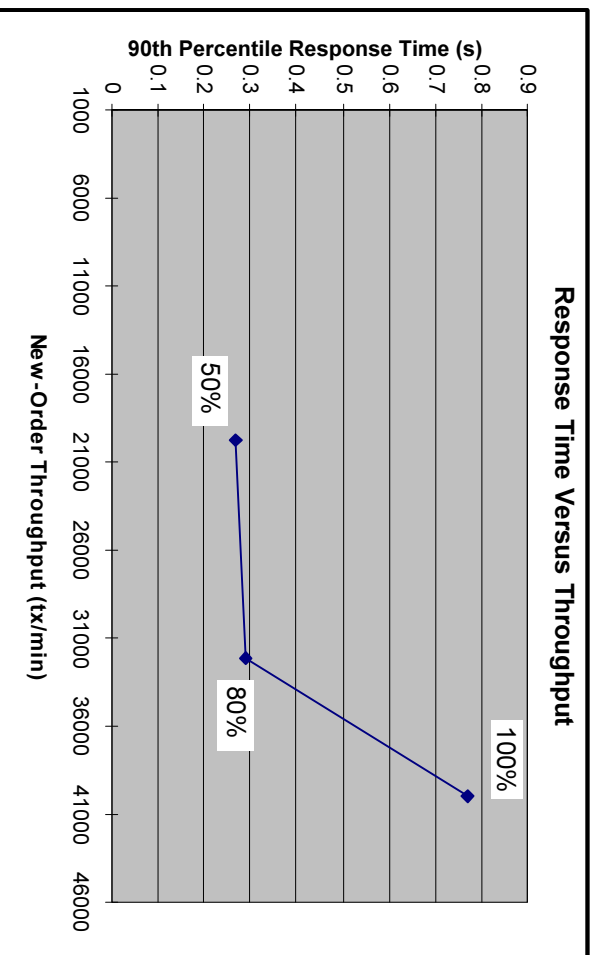


Figure 9. New Order Think Time Distribution

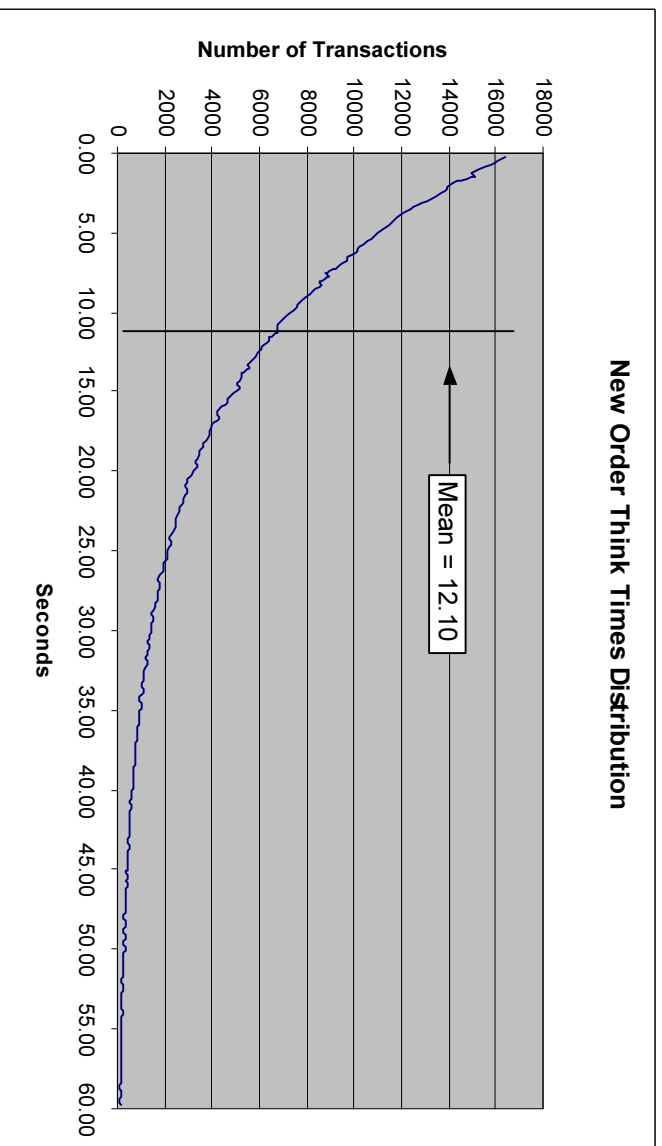
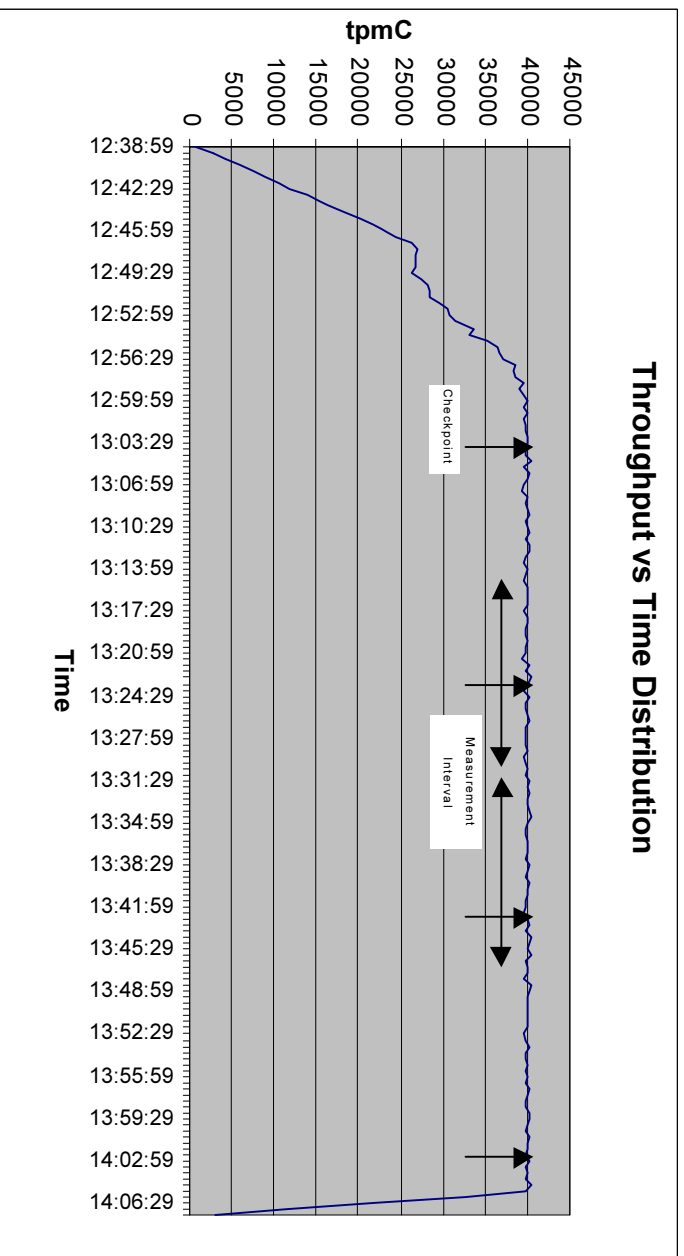


Figure 10. Throughput vs. Time Distribution



Steady State Determination

The method used to determine that the SUT had reached a steady state prior to commencing the measurement interval must be disclosed.

Steady state was determined using real time monitor utilities from the RTE. Steady state was further confirmed by the throughput data collected during the run and graphed in Figure 10.

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.

The RTE generated the required input data to choose a transaction from the menu. This data was timestamped. The input screen for the requested transaction was returned and timestamped. The difference between these two timestamps was the menu response time. The RTE writes to the log file once per transaction on selective fields such as order id. There is one log file per driver engine.

The RTE generated the required input data for the chosen transaction. It waited to complete the minimum required key time before transmitting the input screen. The transmission was timestamped. The return of the screen with the required response data was timestamped. The difference between these two timestamps was the response time for that transaction.

The RTE then waited the required think time interval before repeating the process starting at selecting a transaction from the menu.

The RTE transmissions were sent to application processes running on the client machines through Ethernet LANs. These client application processes handled all screen I/O as well as all requests to the database on the server. The applications communicated with the database server over another Ethernet LAN using DBLIB and RPC calls.

To perform checkpoints at specific intervals, we set SQL Server *recovery interval* to the maximum allowable value and wrote a script to schedule multiple checkpoints at specific intervals. The script included a wait time between each checkpoint equal to the measurement interval which was 20 minutes. The checkpoint script was started manually after the RTE had all users logged in and sending transactions.

At each checkpoint, Microsoft SQL Server wrote to disk all memory pages that had been updated but not yet physically written to disk. The positioning of the measurement interval was verified to be clear of the guard zones and is depicted on the graph in Figure 10.

Reproducibility

A description of the method used to determine the reproducibility of the measurement results must be reported.

We allowed the database to warm up and to reach a steady state for approximately 33 minutes. The steady state was sustained for a 20-minute (measurement) interval, and was followed by a ramp-down. The repeatable interval result was within 0.1 % of the reported interval result.

Measurement Period Duration

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

The reported measured interval was exactly 20 minutes long.

Regulation of Transaction Mix

The method of regulation of the transaction mix (e.g., card decks or weighed 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.

The RTE was given a weighted random distribution, which was not adjusted during the run.

Transaction Statistics

The percentage of the total mix for each transaction type must be disclosed. The percentage of New-Order transactions rolled back as a result of invalid item number must be disclosed. The average number of order-lines entered per New-Order transaction must be disclosed. The percentage of remote order lines per New-Order transaction must be disclosed. The percentage of remote Payment transactions must be disclosed. The percentage of customer selections by customer last name in the Payment and Order-Status transactions must be disclosed. The percentage of Delivery transactions skipped due to there being fewer than necessary orders in the New-Order table must be disclosed.

Table 5: Transaction Statistics

Statistic	Value	
New Order	Home warehouse order lines	99.00%
	Remote warehouse order lines	1.00%
	Rolled back transactions	1.00%
Average items per order	10.00	
Payment	Home warehouse payments	84.99%
	Remote warehouse payments	15.01%
Accessed by last name	59.97%	
Order Status	Accessed by last name	59.75%
Transaction Mix	New Order	44.78%
	Payment	43.08%
	Order status	4.04%
	Delivery	4.06%
Stock level	4.04%	

Checkpoint Count and Location

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.

The initial checkpoint was started 33 minutes after the start of the ramp-up. Subsequent checkpoints occurred every 20 minutes. The checkpoint in the measurement interval lasted approximately 3 minutes. The measurement interval contains the second checkpoint, and is clear of the guard zones.

Clause 6 Related Items

RTE Descriptions

If the RTE is commercially available, then its inputs must be specified. Otherwise, a description must be supplied of what inputs (e.g., scripts) to the RTE had been used.

The RTE used was Microsoft Benchmark RTE. Benchmark is a proprietary tool provided by Microsoft and is not commercially available. The RTE's input are listed in Appendix A.

Emulated Components

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

The driver system consisted of 10 Compaq ProLiant 850R servers. These driver machines were attached to the 5 Compaq ProLiant 1600 6/500 client machines through a 10Mb/s Ethernet connection to the Compaq SW3322 Dual Speed Switch. Since this configuration is the same connectivity of the priced system, no components were being emulated. Therefore, the test described in Clause 6.6.3.4 was not required.

Functional Diagrams

A complete functional diagram of both the benchmark configuration 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.

The driver system performed the data generation and input functions of the priced display device. It also captured the input and output data and timestamps for post-processing of the reported metrics. No other functionality was included on the driver system.

Section 1.4 of this report contains detailed diagrams of both the benchmark configuration and the priced configuration.

Networks

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

The bandwidth of the networks used in the tested/priced configuration must be disclosed.

In the tested configuration, 10 driver (RTE) machines were connected to the Compaq SW3322 24-port Dual Speed switches with 10Mb/s Ethernet connections. The 5 client machines were connected to the switch with 100Mb/s connections. The server (SUT) was connected to the Compaq switch with a 100Mb/s connection.

Operator Intervention

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

This configuration does not require any operator intervention to sustain eight hours of the reported throughput.

Clause 7 Related Items

System 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 data. 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 and effective date(s) of price(s) must also be reported.

The total 5 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.

The details of the hardware and software are reported in the front of this report as part of the executive summary. All third party quotations are included at the end of this report as Appendix E.

Availability, Throughput, and Price Performance

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

A statement of the measured tpmC as well as the respective calculations for the 5-year pricing, price/performance (price/tpmC), and the availability date must be included.

- Maximum Qualified Throughput 40013.30tpmC
- Price per tpmC \$18.86 tpmC
- Availability December 31, 1999
- Hardware availability date August 15, 1999

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

This system is being priced for the United States of America.

Usage Pricing

For any usage pricing, the sponsor must disclose:

- 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:

- 1 Microsoft Windows NT 4.0 Server Enterprise Edition
- 5 Microsoft Windows 2000 Standard Edition licenses (includes Microsoft COM+)
- One Microsoft SQL Server 7.0 Enterprise Edition (Unlimited User Licenses)
- One Microsoft Visual C++
- Compaq Servers include 3 years of support.

compliance must be included in the Full Disclosure Report.

This implementation of the TPC Benchmark C was audited by Tom Sawyer of Performance Metrics, Inc.

Performance Metrics, Inc.
137 Yankton St., Suite 101
Folsom, CA 95630
(phone) (916) 985-1131
(fax) (916) 985-1185
e-mail: lorna@perfmetrics.com

Availability of the Full Disclosure Report

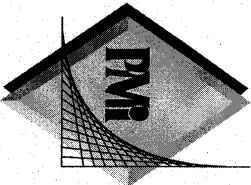
The Full Disclosure Report must be readily available to the public at a reasonable charge, similar to the charges for similar documents by the test sponsor. The report must be made available when results are made public. In order to use the phrase "TPC Benchmark™ C", the Full Disclosure Report must have been submitted to the TPC Administrator as well as written permission obtained to distribute same.

Requests for this TPC Benchmark C Full Disclosure Report should be sent to:

Transaction Processing Performance Council
c/o Shanley Public Relations
777 North First Street, Suite 600
San Jose, CA 95112-6311

or

Compaq Computer Corporation
Database Performance Engineering
P.O. Box 692000
Houston, TX 77269-2000



PERFORMANCE METRICS INC.
TPC Certified Auditors

July 8, 1999

Paul Cao
Senior System Engineer
Compaq Computer Corporation
20555 SH249
Houston, Texas 77070

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

Platform: ProLiant 8000
Database Manager: Microsoft SQL Server Enterprise Edition 7.0
Operating System: Server: Microsoft Windows NT Server Enterprise Edition 4.0 (SP4)
Clients: Microsoft Windows 2000 Standard Edition
Transaction Manager: Microsoft COM+ (included in Windows 2000)

Server: ProLiant 8000				
CPU's	Memory	Disks	90% Response	TpmC
8 Pentium III Xeon @ 550 Mhz	Main: 4 GB Cache: 2MB each	15 @ 4.3 GB 434 @ 9.1 GB	1.24 sec	40,013.30
5 Clients: ProLiant 1600-500				
2 Pentium III @ 500 MHz	Main: 512 MB Cache: 512K	1 @ 3.97 GB	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 transaction monitor implementation was verified.
- The transactions were correctly implemented.
- The database was properly sized and populated.

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PERFORMANCE METRICS INC.
TPC Certified Auditors

- The database was properly scaled with 3,250 warehouses. There were 3,240 warehouses used in the measurement. I verified that `d_next_o_id` and `w_ytd` did not change for the unused warehouses.
- The ACID properties were met.
- The durability data loss and log loss tests were performed on a comparable system with the same binaries.
- 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 180-day space calculation was verified -- see Auditor Notes.
- Measurement cycle times included a 0.1-second menu and a 0.1-second response time delay for an emulated Web browser.
- There were 32,400 user contexts present on the system.
- Each driver engine started with a different random number seed.
- The NURand constants used for database load and at run time were 123 and 233.
- The steady state portion of the test was 20 minutes.
- One checkpoint was taken before the measured interval.
- One checkpoint was taken during the measured interval.
- The checkpoints were verified to be clear of the guard zone.
- The system pricing was checked for major components and maintenance.

Auditor Notes:

The disks were stripped in groups of 56 drives. There were 42 9GB drives stripped with 4GB drives. The disk controller could only use 4GB on these drives. The priced configuration substituted 42 4GB drives for that controller. In addition, 224 9GB drives were changed to 4GB drives in the priced configuration. I verified that the substitution would not affect performance.

Sincerely,



Tom Sawyer
Auditor

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Appendix A: Source Code

The client source code is listed below.

Tpcc.cpp

```
/* FILE: TPCC.C Microsoft TPC-C Kit Ver. 4.10.000
 * Audited by Richard Gimarc, Performance
Metrics, 3/17/99
 * Copyright Microsoft, 1999
 *
 * PURPOSE: Main module for TPCC.DLL which is an ISAPI service dll.
 * Contact: Charles Levine (clevine@microsoft.com)
 */

#include <windows.h>
#include <process.h>
#include <tchar.h>
#include <stdio.h>
#include <stdarg.h>
#include <malloc.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <io.h>
#include <assert.h>

#include <sqltypes.h>

#ifdef ICECAP
#include <icapexp.h>
#endif

#include "..\..\common\src\trans.h" //tpckit transaction header
contains definitions of structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"

#include "..\..\common\txnlog\include\rtetime.h"
#include "..\..\common\txnlog\include\spinlock.h"
#include "..\..\common\txnlog\include\txnlog.h"

#include "..\..\db_dblib_dll\src\tpcc_dblib.h" // DBLIB implementation
of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h" // ODBC implementation
of TPC-C txns
#include "..\..\tm_com_dll\src\tpcc_com.h" // COM
Services implementation on TPC-C txns

#include "..\..\tm_tuxedo_dll\src\tpcc_tux.h" // interface to Tuxedo
libraries
```

```
#include "httpext.h" //ISAPI DLL information
header
#include "tpcc.h" //this dlls specific
structure, value e.t. header.

#define LEN_ERR_STRING 256

// defines for Make<Txn>Form calls to distinguish input and output flavors
#define OUTPUT_FORM 0
#define INPUT_FORM 1

DWORD iMaxConnections = 100;

DBPROTOCOL eDB_Protocol = Unspecified;
TXNMON eTxnMon = None;
char szPath[64]; // path to location of
tpc-c dll's

char szMyComputerName[MAX_COMPUTERNAME_LENGTH+1];

//Terminal client id structure
TERM Term = { 0, 0, 0, NULL };

// The WEBCLIENT_VERSION string specifies the version level of this web client
interface.
// The RTE must be synchronized with the interface level on login, otherwise the
login
// will fail. This is a sanity check to catch problems resulting from mismatched
versions
// of the RTE and web client.
#define WEBCLIENT_VERSION "410"

static CRITICAL_SECTION TermCriticalSection;

static HINSTANCE hLibInstanceTm = NULL;
static HINSTANCE hLibInstanceDb = NULL;

TYPE_CTPCC_DBLIB *pCTPCC_DBLIB_new;
TYPE_CTPCC_ODBC *pCTPCC_ODBC_new;
TYPE_CTPCC_TUXEDO *pCTPCC_TUXEDO_new;
TYPE_CTPCC_COM *pCTPCC_COM_new;

// For deferred Delivery txns:

CTxnLog *txnDelilog = NULL;
//used to log delivery transaction information

HANDLE hWorkerSemaphore =
INVALID_HANDLE_VALUE;
HANDLE hDoneEvent
= INVALID_HANDLE_VALUE;

HANDLE *pDeliHandles =
NULL;

// values populated from registry settings; needed for connection made by delivery
threads
char szServer[32];
char //SQL server name
szDatabase[32];
char //tpcc database name
```

```

char          //user name          szUser[32];
char          //user password      szPassword[32];

DWORD        dwNumDeliveryThreads = 4;
CRITICAL_SECTION DelBuffCriticalSection; //critical
section for delivery transactions cache
DELIVERY_TRANSACTION *pDelBuff          = NULL;
DWORD        dwDelBuffSize              =
100;        // size of circular buffer for delivery txns
DWORD        dwDelBuffFreeCount;
DWORD        dwDelBuffBusyIndex = 0;
DWORD        // index position of entry waiting to be delivered
DWORD        dwDelBuffFreeIndex = 0;
// index position of unused entry

/* FUNCTION: DllMain
 *
 * PURPOSE:      This function is the entry point for the DLL. This
implementation is based on the
 *              fact that DLL_PROCESS_ATTACH is only called from the
inet service once.
 *
 * ARGUMENTS:   HANDLE   hModule      module handle
 *              DWORD    ul_reason_for_call  reason for
call
 *              LPVOID   lpReserved
 *              reserved for future use
 *
 * RETURNS:     BOOL      FALSE
 *              errors occured in initialization
 *              TRUE
 *              DLL successfully initialized
 */
BOOL WINAPI DllMain(HANDLE hModule, DWORD ul_reason_for_call, LPVOID lpReserved)
{
    DWORD i;
    char szEvent[LEN_ERR_STRING] = "\0";
    char szLogFile[128];
    char szDllName[128];

    try
    {
        switch( ul_reason_for_call )
        {
            case DLL_PROCESS_ATTACH:
                DWORD dwSize =
MAX_COMPUTERNAME_LENGTH+1;
                GetComputerName( szMyComputerName,
&dwSize);
                szMyComputerName[dwSize] = 0;

                DisableThreadLibraryCalls( (HMODULE)hModule);

                InitializeCriticalSection( &TermCriticalSection);
                ReadRegistrySettings();
                TermInit();
        }
    }
}

```

```

// load DLL for txn monitor
if (eTxnMon == TUXEDO)
{
    strcpy( szDllName, szPath );
    strcat( szDllName,
"tpcc_tuxedo.dll");
    hLibInstanceTm = LoadLibrary(
szDllName );
    if (hLibInstanceTm == NULL)
        throw new CWEBCLNT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );

    // get function pointer to wrapper
for class constructor
    pCTPCC_TUXEDO_new =
(TYPE_CTPCC_TUXEDO*) GetProcAddress(hLibInstanceTm, "CTPCC_TUXEDO_new");
    if (pCTPCC_TUXEDO_new == NULL)
        throw new CWEBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
    }
else if (eTxnMon == COM)
{
    strcpy( szDllName, szPath );
    strcat( szDllName,
"tpcc_com.dll");
    hLibInstanceTm = LoadLibrary(
szDllName );
    if (hLibInstanceTm == NULL)
        throw new CWEBCLNT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );

    // get function pointer to wrapper
for class constructor
    pCTPCC_COM_new = (TYPE_CTPCC_COM*)
GetProcAddress(hLibInstanceTm, "CTPCC_COM_new");
    if (pCTPCC_COM_new == NULL)
        throw new CWEBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
    }

// load DLL for database connection
if ((eTxnMon == None) ||
(dwNumDeliveryThreads > 0))
{
    if (eDB_Protocol == DBLIB)
    {
        strcpy( szDllName,
szPath );
        strcat( szDllName,
"tpcc_dblib.dll");
        hLibInstanceDb =
LoadLibrary( szDllName );
        if (hLibInstanceDb ==
NULL)
            throw new
CWEBCLNT_ERR( ERR_LOADDLL_FAILED, szDllName, GetLastError() );

        // get function pointer
to wrapper for class constructor
        pCTPCC_DBLIB_new =
(TYPE_CTPCC_DBLIB*) GetProcAddress(hLibInstanceDb, "CTPCC_DBLIB_new");
    }
}
}

```

```

        if (pCTPCC_DBLIB_new ==
NULL)
        throw new
CWEBCLNT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
    }
    else if (eDB_Protocol == ODBC)
    {
        strcpy( szDllName,
        szPath );
        strcat( szDllName,
"tpcc_odbc.dll");
        LoadLibrary( szDllName );
        if (hLibInstanceDb ==
NULL)
        throw new
CWEBCLNT_ERR( ERR_LOADDLL_FAILED, szDllName, GetLastError() );

        // get function pointer
        pCTPCC_ODBC_new =
        (TYPE_CTPCC_ODBC*) GetProcAddress(hLibInstanceDb, "CTPCC_ODBC_new");
        if (pCTPCC_ODBC_new ==
NULL)
        throw new
CWEBCLNT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
    }
}
if (dwNumDeliveryThreads)
{
    // for deferred delivery txns:
    hDoneEvent = CreateEvent( NULL,
TRUE /* manual reset */, FALSE /* initially not signalled */, NULL );
    InitializeCriticalSection(&DelBuffCriticalSection);
    hWorkerSemaphore =
CreateSemaphore( NULL, 0, dwDelBuffSize, NULL );
    dwDelBuffFreeCount =
dwDelBuffSize;

    InitJulianTime(NULL);

    // create unique log file name
    SYSTEMTIME Time;
    GetLocalTime( &Time );
    wsprintf( szLogFile, "%sdelivery-
%2.2d%2.2d%2.2d-%2.2d%2.2d.log",
        szPath,
Time.wYear % 100, Time.wMonth, Time.wDay, Time.wHour, Time.wMinute );
    txnDelilog = new
CTxnLog(szLogFile, TXN_LOG_WRITE);

    //write event into txn log for
START
    txnDelilog-
>WriteCtrlRecToLog(TXN_EVENT_START, szMyComputerName, sizeof(szMyComputerName));

    // allocate structures for
    pDeliHandles = new
HANDLE[dwNumDeliveryThreads];

```

```

        pDelBuff = new
DELIVERY_TRANSACTION[dwDelBuffSize];
        // launch DeliveryWorkerThread to
perform actual delivery txns
        for(i=0; i<dwNumDeliveryThreads;
i++)
        {
            pDeliHandles[i] =
            (HANDLE) _beginthread( DeliveryWorkerThread, 0, NULL );
            if (pDeliHandles[i] ==
INVALID_HANDLE_VALUE)
            throw new
CWEBCLNT_ERR( ERR_DELIVERY_THREAD_FAILED );
        }
        break;
        case DLL_PROCESS_DETACH:
            if (dwNumDeliveryThreads)
            {
                if (txnDelilog != NULL)
                {
                    //write event into txn
                    log for STOP
                    txnDelilog-
                    >WriteCtrlRecToLog(TXN_EVENT_STOP, szMyComputerName, sizeof(szMyComputerName));

                    // This will do a clean
                    shutdown of the delivery log file
                    CTxnLog
                    *txnDelilogLocal = txnDelilog;
                    txnDelilog= NULL;
                    delete txnDelilogLocal;
                }
                delete [] pDeliHandles;
                delete [] pDelBuff;

                CloseHandle( hWorkerSemaphore );
                CloseHandle( hDoneEvent );

                DeleteCriticalSection(&DelBuffCriticalSection);
            }
            DeleteCriticalSection(&TermCriticalSection);
            if (hLibInstanceTm != NULL)
                FreeLibrary( hLibInstanceTm );
            hLibInstanceTm = NULL;
            if (hLibInstanceDb != NULL)
                FreeLibrary( hLibInstanceDb );
            hLibInstanceDb = NULL;

            Sleep(500);
            break;
        default:
            /* nothing */;
    }
}
catch (CBaseErr *e)

```

```

        {
            WriteMessageToEventLog( e->ErrorText() );
            delete e;
            TerminateExtension(0);
            return FALSE;
        }
        catch (...)
        {
            WriteMessageToEventLog(TEXT("Unhandled exception. DLL could not
load."));
            TerminateExtension(0);
            return FALSE;
        }
    }

    return TRUE;
}

/* FUNCTION: GetExtensionVersion
 * PURPOSE:      This function is called by the inet service when the DLL is
first loaded.
 * ARGUMENTS:   HSE_VERSION_INFO *pVer    passed in structure in which to
place expected version number.
 * RETURNS:     TRUE      inet service expected return value.
 */

BOOL WINAPI GetExtensionVersion(HSE_VERSION_INFO *pVer)
{
    pVer->dwExtensionVersion = MAKELONG(HSE_VERSION_MINOR, HSE_VERSION_MAJOR);
    lstrcpy(pVer->lpszExtensionDesc, "TPC-C Server.",
HSE_MAX_EXT_DLL_NAME_LEN);

    return TRUE;
}

/* FUNCTION: TerminateExtension
 * PURPOSE:      This function is called by the inet service when the DLL is
about to be unloaded.
 * ARGUMENTS:   Release all resources in anticipation of being
unloaded.
 * RETURNS:     TRUE      inet service expected return value.
 */

BOOL WINAPI TerminateExtension( DWORD dwFlags )
{
    if (dwNumDeliveryThreads)
    {
        SetEvent( hDoneEvent );
        for(DWORD i=0; i<dwNumDeliveryThreads; i++)
            WaitForSingleObject( pDeliHandles[i], INFINITE );
    }

    TermDeleteAll();
    return TRUE;
}

/* FUNCTION: HttpExtensionProc

```

```

 *
 * PURPOSE:      This function is the main entry point for the TPCC DLL. The
internet service
 *               calls this function passing in the http string.
 *
 * ARGUMENTS:   EXTENSION_CONTROL_BLOCK *pECB    structure pointer to
passed in internet
 *
 *               service information.
 * RETURNS:     DWORD      HSE_STATUS_SUCCESS
connection can be dropped if error
 *
 *               HSE_STATUS_SUCCESS_AND_KEEP_CONN    keep connect valid comment sent
 *
 * COMMENTS:    None
 *
 */

DWORD WINAPI HttpExtensionProc(EXTENSION_CONTROL_BLOCK *pECB)
{
    int iCmd, FormId, TermId, iSyncId;
    char szBuffer[4096];

    int lpbSize;
    static char szHeader[] = "200 Ok";
    DWORD dwSize = 6; // initial value is
strlen(szHeader)
    char szHeader1[4096];

#ifdef ICECAP
    StartCAP();
#endif

    try
    {
        //process http query
        ProcessQueryString(pECB, &iCmd, &FormId, &TermId, &iSyncId);

        if (TermId != 0)
        {
            if ( TermId < 0 || TermId >= Term.iNumEntries ||
Term.pClientData[TermId].iNextFree != -1 )
            {
                // debugging...
                char szTmp[128];
                wsprintf( szTmp, "Invalid term ID; TermId =
%d", TermId );

                WriteMessageToEventLog( szTmp );

                throw new CWEBCLNT_ERR( ERR_INVALID_TERMID
);
            }

            //must have a valid syncid here since termid is valid
            if (iSyncId != Term.pClientData[TermId].iSyncId)
                throw new CWEBCLNT_ERR(
ERR_INVALID_SYNC_CONNECTION );

            //set use time
            Term.pClientData[TermId].iTickCount = GetTickCount();
        }
    }
}

```

```

switch(iCmd)
{
case 0:
    WelcomeForm(pECB, szBuffer);
    break;
case 1:
    switch( FormId )
    {
        case WELCOME_FORM:
        case MAIN_MENU_FORM:
            break;
        case NEW_ORDER_FORM:
            ProcessNewOrderForm(pECB, TermId,
szBuffer);
            break;
        case PAYMENT_FORM:
            ProcessPaymentForm(pECB, TermId,
szBuffer);
            break;
        case DELIVERY_FORM:
            ProcessDeliveryForm(pECB, TermId,
szBuffer);
            break;
        case ORDER_STATUS_FORM:
            ProcessOrderStatusForm(pECB,
TermId, szBuffer);
            break;
        case STOCK_LEVEL_FORM:
            ProcessStockLevelForm(pECB,
TermId, szBuffer);
            break;
    }
    break;
case 2:
    // new-order selected from menu; display new-order
input form
    MakeNewOrderForm(TermId, NULL, INPUT_FORM, szBuffer);
    break;
case 3:
    // payment selected from menu; display payment input
form
    MakePaymentForm(TermId, NULL, INPUT_FORM, szBuffer);
    break;
case 4:
    // delivery selected from menu; display delivery input
form
    MakeDeliveryForm(TermId, NULL, INPUT_FORM, szBuffer);
    break;
case 5:
    // order-status selected from menu; display order-
status input form
    MakeOrderStatusForm(TermId, NULL, INPUT_FORM,
szBuffer);
    break;
case 6:
    // stock-level selected from menu; display stock-level
input form
    MakeStockLevelForm(TermId, NULL, INPUT_FORM,
szBuffer);
    break;
case 7:

```

```

// ExitCmd
TermDelete(TermId);
WelcomeForm(pECB, szBuffer);
break;
case 8:
    SubmitCmd(pECB, szBuffer);
    break;
case 9:
    // menu
    MakeMainMenuForm(TermId,
Term.pClientData[TermId].iSyncId, szBuffer);
    break;
case 10:
    // CMD=Clear
    // resets all connections; should only be used when no
other connections are active
    TermDeleteAll();
    TermInit();
    WelcomeForm(pECB, szBuffer);
    break;
case 11:
    // CMD=Stats
    StatsCmd(pECB, szBuffer);
    break;
}
}
catch (CBaseErr *e)
{
    ErrorForm( pECB, e->ErrorType(), e->ErrorNum(), TermId, iSyncId,
e->ErrorText(), szBuffer );
    delete e;
}
catch (...)
{
    ErrorForm( pECB, ERR_TYPE_WEBDLL, 0, TermId, iSyncId, "Error:
Unhandled exception in Web Client.", szBuffer );
}
#endif ICECAP
    StopCAP();
#endif

    lpbSize = strlen(szBuffer);
    wsprintf(szHeader1,
        "Content-Type: text/html\r\n"
        "Content-Length: %d\r\n"
        "Connection: Keep-Alive\r\n\r\n", lpbSize);
    strcat( szHeader1, szBuffer );

    (*pECB->ServerSupportFunction)(pECB->ConnID, HSE_REQ_SEND_RESPONSE_HEADER,
szHeader, (LPDWORD) &dwSize, (LPDWORD)szHeader1);

    //finish up and keep connection
    pECB->dwHttpStatusCode = 200;
    return HSE_STATUS_SUCCESS_AND_KEEP_CONN;
}

void WriteMessageToEventLog(LPTSTR lpszMsg)
{
    TCHAR    szMsg[256];
    HANDLE   hEventSource;
    LPTSTR   lpszStrings[2];

```



```

// Use event logging to log the error.
//
hEventSource = RegisterEventSource(NULL, TEXT("TPCC.DLL"));

_stprintf(szMsg, TEXT("Error in TPCC.DLL: "));
lpszStrings[0] = szMsg;
lpszStrings[1] = lpszMsg;

if (hEventSource != NULL)
{
    ReportEvent(hEventSource, // handle of event source
               EVENTLOG_ERROR_TYPE, // event type
               0, // event category
               0, // event ID
               NULL, // current user's SID
               2, // strings in lpszStrings
               0, // no bytes of raw data
               (LPCTSTR *)lpszStrings, // array of error strings
               NULL); // no raw data

    (VOID) DeregisterEventSource(hEventSource);
}
}

/* FUNCTION: DeliveryWorkerThread
 *
 * PURPOSE: This function processes deferred delivery txns. There are
 typically several
 * threads running this routine. The number of threads
 is determined by an entry
 * read from the registry. The thread waits for work by
 waiting on semaphore.
 * When a delivery txn is posted, the semaphore is
 released. After processing
 * the delivery txn, information is logged to record the
 txn status and execution
 * time.
 */

/*static*/ void DeliveryWorkerThread(void *ptr)
{
    CTPCC_BASE *pTxn = NULL;

    DELIVERY_TRANSACTION delivery;
    PDELIVERY_DATA pDeliveryData;
    TXN_RECORD_TPCC_DELIV_DEF txnDeliRec;

    DWORD index;
    HANDLE handles[2];

    SYSTEMTIME trans_end; //delivery
    transaction finished time
    SYSTEMTIME trans_start; //delivery transaction
    start time

    assert(txnDeliRec != NULL);

    try
    {
        if (eDB_Protocol == ODBC)

```

```

        pTxn = pCTPCC_ODBC_new( szServer, szUser, szPassword,
szMyComputerName, szDatabase );
        else if (eDB_Protocol == DBLIB)
            pTxn = pCTPCC_DBLIB_new( szServer, szUser, szPassword,
szMyComputerName, szDatabase );
        pDeliveryData = pTxn->BuffAddr_Delivery();
    }
    catch (CBaseErr *e)
    {
        char szTmp[1024];
        wsprintf( szTmp, "Error in Delivery Txn thread. Could not
connect to database. "
                "%s. Server=%s, User=%s, Password=%s,
Database=%s",
                e->ErrorText(), szServer, szUser,
szPassword, szDatabase );
        WriteMessageToEventLog( szTmp );
        delete e;
        goto ErrorExit;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled exception caught in
DeliveryWorkerThread.));
        goto ErrorExit;
    }

    while (TRUE)
    {
        try
        {
            //while delivery thread running, i.e. user has not
            requested termination
            while (TRUE)
            {
                // need to wait for multiple objects:
                handles[0] = hDoneEvent;
                handles[1] = hWorkerSemaphore;
                index = WaitForMultipleObjects( 2,
                gHandles[0], FALSE, INFINITE );
                if (index == WAIT_OBJECT_0)
                    goto ErrorExit;

                ZeroMemory(&txnDeliRec, sizeof(txnDeliRec));
                txnDeliRec.TxnType =
                TXN_REC_TYPE_TPCC_DELIV_DEF;

                // make a local copy of current entry from
                delivery buffer and increment buffer index
                EnterCriticalSection(&DelBuffCriticalSection);
                delivery = *(pDelBuff+dwDelBuffBusyIndex);
                dwDelBuffFreeCount++;
                dwDelBuffBusyIndex++;
                if (dwDelBuffBusyIndex == dwDelBuffSize)
                // wrap-around if at end of buffer
                    dwDelBuffBusyIndex = 0;

                LeaveCriticalSection(&DelBuffCriticalSection);

                pDeliveryData->w_id = delivery.w_id;

```

```

        pDeliveryData->o_carrier_id =
delivery.o_carrier_id;

        txnDeliRec.w_id = pDeliveryData->w_id;
        txnDeliRec.o_carrier_id = pDeliveryData-
>o_carrier_id;
        txnDeliRec.TxnStartT0 =
Get64BitTime(&delivery.queue);

        GetLocalTime( &trans_start );
        pTxn->Delivery();
        GetLocalTime( &trans_end );

        //log txn
        txnDeliRec.TxnStatus = ERR_SUCCESS;
        for (int i=0; i<10; i++)
            txnDeliRec.o_id[i] =

pDeliveryData->o_id[i];
        txnDeliRec.DeltaT4 =
(int) (Get64BitTime(&trans_end) - txnDeliRec.TxnStartT0);
        txnDeliRec.DeltaTxnExec =
(int) (Get64BitTime(&trans_end) - Get64BitTime(&trans_start));

        if (txnDelilog != NULL)
            txnDelilog-
>WriteToLog(&txnDeliRec);
    }
    catch (CBaseErr *e)
    {
        char szTmp[1024];
        sprintf( szTmp, "Error in Delivery Txn thread. %s",
e->ErrorText() );

        WriteMessageToEventLog( szTmp );
        delete e;

        // log the error txn
        txnDeliRec.TxnStatus = e->ErrorType();
        if (txnDelilog != NULL)
            txnDelilog->WriteToLog(&txnDeliRec);
    }
    catch (...)
    {
        // unhandled exception; shouldn't happen; not much we
can do...
        WriteMessageToEventLog(TEXT("Unhandled exception
caught in DeliveryWorkerThread."));
    }
}

ErrorExit:
    delete pTxn;
    _endthread();
}

/* FUNCTION: PostDeliveryInfo
*
* PURPOSE:      This function enters the delivery txn into the deferred delivery
buffer.
*
* RETURNS:      BOOL      FALSE      delivery information posted
successfully

```

```

*
* TRUE      error cannot
*/
post delivery info
*/
BOOL PostDeliveryInfo(short w_id, short o_carrier_id)
{
    BOOL bError;

    EnterCriticalSection(&DelBuffCriticalSection);
    if (dwDelBuffFreeCount > 0)
    {
        bError = FALSE;
        (pDelBuff+dwDelBuffFreeIndex)->w_id
=
w_id;
        (pDelBuff+dwDelBuffFreeIndex)->o_carrier_id
=
o_carrier_id;
        GetLocalTime(&(pDelBuff+dwDelBuffFreeIndex)->queue);

        dwDelBuffFreeCount--;
        dwDelBuffFreeIndex++;
        if (dwDelBuffFreeIndex == dwDelBuffSize)
            dwDelBuffFreeIndex = 0; // wrap-around

if at end of buffer
    }
    else
        // No free buffers. Return an error, which indicates that the
delivery buffer is full.
        // Most likely, the number of delivery worker threads needs to
be increased to keep up
        // with the txn rate.
        bError = TRUE;
        LeaveCriticalSection(&DelBuffCriticalSection);

    if (!bError)
        // increment worker semaphore to wake up a worker thread
        ReleaseSemaphore( hWorkerSemaphore, 1, NULL );

    return bError;
}

/* FUNCTION: ProcessQueryString
*
* PURPOSE:      This function extracts the relevent information out of the http
command passed in from
the browser.
*
* COMMENTS:      If this is the initial connection i.e. client is at welcome
screen then
there will not be a terminal id or current
form id. If this is the case
then the pTermid and pFormid return values
are undefined.
*/

void ProcessQueryString(EXTENSION_CONTROL_BLOCK *pECB, int *pCmd, int *pFormId, int
*pTermId, int *pSyncId)
{
    char *ptr = pECB->lpszQueryString;
    char szBuffer[25];
    int i;

    //allowable client command strings i.e. CMD=command
    static char *szCmds[] =

```

```

    {
        "Process", ".NewOrder..", ".Payment..", ".Delivery..",
        ".Order-Status..", ".Stock-Level..",
        ".Exit..", "Submit", "Menu", "Clear", "Stats", ""
    };

    *pCmd = 0; // default is the login screen
    *pTermId = 0;
    *pSyncId = 0;
    *pFormId = 0;

    // if no params (i.e., empty query string), then return login screen
    if (strlen(pECB->lpszQueryString) == 0)
        return;

    // parse FORMID, TERMID, and SYNCID
    if ( GetKeyValue(&ptr, "FORMID", szBuffer, sizeof(szBuffer)) )
        *pFormId = atoi(szBuffer);

    if ( GetKeyValue(&ptr, "TERMID", szBuffer, sizeof(szBuffer)) )
        *pTermId = atoi(szBuffer);

    if ( GetKeyValue(&ptr, "SYNCID", szBuffer, sizeof(szBuffer)) )
        *pSyncId = atoi(szBuffer);

    // parse CMD
    if ( !GetKeyValue(&ptr, "CMD", szBuffer, sizeof(szBuffer)) )
        throw new CWEBCLNT_ERR( ERR_COMMAND_UNDEFINED );

    // see which command it matches
    for(i=0; ; i++)
    {
        if (szCmds[i][0] == 0)
            // no more; no match; return error
            throw new CWEBCLNT_ERR( ERR_COMMAND_UNDEFINED );
        if ( !strcmp(szCmds[i], szBuffer) )
        {
            *pCmd = i+1;
            break;
        }
    }
}

/* FUNCTION: void WelcomeForm
 *
 */

void WelcomeForm(EXTENSION_CONTROL_BLOCK *pECB, char *szBuffer)
{
    char szTmp[1024];

    //welcome to tpc-c html form buffer, this is first form client sees.
    strcpy( szBuffer, "<HTML><HEAD><TITLE>Welcome To TPC-
</TITLE></HEAD><BODY>"

    " <B><BIG>Microsoft TPC-C
    "Compiled: "__DATE__",
    "__TIME__" <BR>"
    "Source: "__FILE__"
    (" __TIMESTAMP__ ") <BR>"
    " <FORM
    ACTION=\"tpcc.dll\" METHOD=\"GET\">"

```

```

    " <INPUT TYPE=\"hidden\"
    NAME=\"STATUSID\" VALUE=\"0\">"
    " <INPUT TYPE=\"hidden\"
    NAME=\"ERROR\" VALUE=\"0\">"
    " <INPUT TYPE=\"hidden\"
    NAME=\"FORMID\" VALUE=\"1\">"
    " <INPUT TYPE=\"hidden\"
    NAME=\"TERMID\" VALUE=\"0\">"
    " <INPUT TYPE=\"hidden\"
    NAME=\"SYNCID\" VALUE=\"0\">"
    " <INPUT TYPE=\"hidden\"
    NAME=\"VERSION\" VALUE=\"\" WEBCCLIENT_VERSION \"\">"
    );

    char szDB[16];
    switch (eDB_Protocol)
    {
        case ODBC: strcpy( szDB, "ODBC" ); break;
        case DBLIB: strcpy( szDB, "DBLIB" ); break;
        default: strcpy( szDB, "*UNKNOWN*" ); break;
    }

    char szTM[16];
    switch (eTxnMon)
    {
        case TUXEDO: strcpy( szTM, "TUXEDO" ); break;
        case COM: strcpy( szTM, "COM" ); break;
        case None: strcpy( szTM, "None" ); break;
    }

    sprintf( szTmp, "Configuration Settings: <BR>"
        "Database protocol = %s <BR>"
        "Txn Monitor = %s <BR>"
        "Max Connections = %d <BR>"
        "# of Delivery Threads = %d <BR>"
        "Max Pending Deliveries = %d
    <BR><BR><BR>"
        , szDB, szTM, iMaxConnections, dwNumDeliveryThreads,
    dwDelBuffSize );
    strcat( szBuffer, szTmp);

    sprintf( szTmp, "Please Identify your Warehouse and District for this
    session.<BR><BR>"
        "<font face=\"Courier New\">"
        "DB Server <INPUT
    NAME=\"db_server\" SIZE=20 VALUE=\"%s\"><BR>"
        "DB User ID <INPUT
    NAME=\"db_user\" SIZE=20 VALUE=\"%s\"><BR>"
        "DB Password <INPUT
    NAME=\"db_passwd\" SIZE=20 VALUE=\"%s\"><BR>"
        "Database name <INPUT
    NAME=\"db_name\" SIZE=20 VALUE=\"%s\"><BR><BR>"
        , szServer, szUser, szPassword, szDatabase );
    strcat( szBuffer, szTmp);

    strcat( szBuffer, "Warehouse ID <INPUT NAME=\"w_id\" SIZE=4><BR>"
        "District ID <INPUT
    NAME=\"d_id\" SIZE=2><BR>"
        "</font><HR>"
        " <INPUT TYPE=\"submit\"
    NAME=\"CMD\" VALUE=\"Submit\">"
    "</FORM></BODY></HTML>");

```

```

}

/* FUNCTION: SubmitCmd
 *
 * PURPOSE:      This function allocated a new terminal id in the Term structure
array.
 *
 */

void SubmitCmd(EXTENSION_CONTROL_BLOCK *pECB, char *szBuffer)
{
    int          iNewTerm;
    char         szTmp[32];
    char         *ptr = pECB->lpszQueryString;

    char         szVersion[32]   = { 0 };
    char         szServer[32]    = { 0 };
    char         szUser[32]      = "sa";
    char         szPassword[32]  = { 0 };
    char         szDatabase[32]  = "tpcc";

    // validate version field; the version field ensures that the RTE is
synchronized with the web client
    if ( !GetKeyValue(&ptr, "VERSION", szVersion, sizeof(szVersion)) )
        throw new CWEBCLNT_ERR( ERR_VERSION_MISMATCH );
    if ( strcmp( szVersion, WEBCLIENT_VERSION ) )
        throw new CWEBCLNT_ERR( ERR_VERSION_MISMATCH );

    // parse Server name
    if ( !GetKeyValue(&ptr, "db_server", szServer, sizeof(szServer)) )
        throw new CWEBCLNT_ERR( ERR_NO_SERVER_SPECIFIED );

    // parse User name
    GetKeyValue(&ptr, "db_user", szUser, sizeof(szUser));
    // parse Password
    GetKeyValue(&ptr, "db_passwd", szPassword, sizeof(szPassword));
    // parse Database name
    GetKeyValue(&ptr, "db_name", szDatabase, sizeof(szDatabase));

    // parse warehouse ID
    if ( !GetKeyValue(&ptr, "w_id", szTmp, sizeof(szTmp)) )
        throw new CWEBCLNT_ERR( ERR_HTML_ILL_FORMED );

    int w_id = atoi(szTmp);
    if ( w_id < 1 )
        throw new CWEBCLNT_ERR( ERR_W_ID_INVALID );

    // parse district ID
    if ( !GetKeyValue(&ptr, "d_id", szTmp, sizeof(szTmp)) )
        throw new CWEBCLNT_ERR( ERR_HTML_ILL_FORMED );

    int d_id = atoi(szTmp);
    if ( d_id < 1 || d_id > 10 )
        throw new CWEBCLNT_ERR( ERR_D_ID_INVALID );

    iNewTerm = TermAdd();

    Term.pClientData[iNewTerm].w_id = w_id;
    Term.pClientData[iNewTerm].d_id = d_id;

    try
    {

```

```

        if (eTxnMon == TUXEDO)
            Term.pClientData[iNewTerm].pTxn = pCTPCC_TUXEDO_new();
        else if (eTxnMon == COM)
            Term.pClientData[iNewTerm].pTxn = pCTPCC_COM_new(
szServer, szUser, szPassword, szDatabase );
        else if (eDB_Protocol == ODBC)
            Term.pClientData[iNewTerm].pTxn = pCTPCC_ODBC_new(
szServer, szUser, szPassword, szMyComputerName, szDatabase );
        else if (eDB_Protocol == DBLIB)
            Term.pClientData[iNewTerm].pTxn = pCTPCC_DBLIB_new(
szServer, szUser, szPassword, szMyComputerName, szDatabase );
    }
    catch (...)
    {
        TermDelete(iNewTerm);
        throw; // pass exception upward
    }

    MakeMainMenuForm(iNewTerm, Term.pClientData[iNewTerm].iSyncId, szBuffer);
}

/* FUNCTION: StatsCmd
 *
 * PURPOSE:      This function returns to the browser the total number of active
terminal ids.
 *
 * This routine is for development/debugging purposes.
 *
 */

void StatsCmd(EXTENSION_CONTROL_BLOCK *pECB, char *szBuffer)
{
    int i;
    int iTot;

    EnterCriticalSection(&TermCriticalSection);

    iTot = 0;
    for(i=0; i<Term.iNumEntries; i++)
    {
        if (Term.pClientData[i].iNextFree == -1)
            iTot++;
    }

    LeaveCriticalSection(&TermCriticalSection);

    wsprintf( szBuffer,
"<HTML><HEAD><TITLE>TPC-C Web Client
Stats</TITLE></HEAD>"
"<BODY><B><BIG> Total Active Connections: %d
</BIG></B><BR></BODY></HTML>"
, iTot );
}

char *CWEBCLNT_ERR::ErrorText()
{
    int i;

    static SERRORMSG errorMsgs[] =
    {
        { ERR_COMMAND_UNDEFINED,
"Command undefined."
},

```

```

        {
            ERR_D_ID_INVALID,
            "Invalid District ID Must be 1 to 10."
        },
        {
            ERR_DELIVERY_CARRIER_ID_RANGE,
            "Delivery Carrier ID out of range must be 1 - 10."
        },
        {
            ERR_DELIVERY_CARRIER_INVALID,
            "Delivery Carrier ID invalid must be numeric 1 - 10."
        },
        {
            ERR_DELIVERY_MISSING_OCD_KEY,
            "Delivery missing Carrier ID key \"OCD*\"."
        },
        {
            ERR_DELIVERY_THREAD_FAILED,
            "Could not start delivery worker thread."
        },
        {
            ERR_GETPROCADDR_FAILED,
            "Could not map proc in DLL. GetProcAddr error."
        },
        {
            ERR_HTML_ILL_FORMED,
            "Required key field is missing from HTML string."
        },
        {
            ERR_INVALID_SYNC_CONNECTION,
            "Invalid Terminal Sync ID."
        },
        {
            ERR_INVALID_TERMID,
            "Invalid Terminal ID."
        },
        {
            ERR_LOADDLL_FAILED,
            "Load of DLL failed."
        },
        {
            ERR_MAX_CONNECTIONS_EXCEEDED,
            "connections available. Max Connections is probably too low."
        },
        {
            ERR_MISSING_REGISTRY_ENTRIES,
            "Required registry entries are missing. Rerun INSTALL to correct."
        },
        {
            ERR_NEWORDER_CUSTOMER_INVALID,
            "New Order customer id invalid data type, range = 1 to 3000."
        },
        {
            ERR_NEWORDER_CUSTOMER_KEY,
            "New Order missing Customer key \"CID*\"."
        },
        {
            ERR_NEWORDER_DISTRICT_INVALID,
            "New Order District ID Invalid range 1 - 10."
        },
        {
            ERR_NEWORDER_FORM_MISSING_DID,
            "New Order missing District key \"DID*\"."
        },
        {
            ERR_NEWORDER_ITEMID_INVALID,
            "Order Item Id is wrong data type, must be numeric."
        },
        {
            ERR_NEWORDER_ITEMID_RANGE,
            "New Order Item Id is out of range. Range = 1 to 999999."
        },
        {
            ERR_NEWORDER_ITEMID_WITHOUT_SUPPW,
            "Order Item_Id field entered without a corresponding Supp_W."
        },
        {
            ERR_NEWORDER_MISSING_IID_KEY,
            "Order missing Item Id key \"IID*\"."
        },
        {
            ERR_NEWORDER_MISSING_QTY_KEY,
            "Order Missing Qty key \"Qty##*\"."
        },
        {
            ERR_NEWORDER_MISSING_SUPPW_KEY,
            "New Order missing Supp_W key \"SP##*\"."
        }
    },
    {
        ERR_NEWORDER_NOITEMS_ENTERED,
        "Order No order lines entered."
    },
    {
        ERR_NEWORDER_QTY_INVALID,
        "New Order Qty invalid must be numeric range 1 - 99."
    },
    {
        ERR_NEWORDER_QTY_RANGE,
        "New Order Qty is out of range. Range = 1 to 99."
    },
    {
        ERR_NEWORDER_QTY_WITHOUT_SUPPW,
        "New Order Qty field entered without a corresponding Supp_W."
    },
    {
        ERR_NEWORDER_SUPPW_INVALID,
        "New Order Supp_W invalid data type must be numeric."
    },
    {
        ERR_NO_SERVER_SPECIFIED,
        "No Server name specified."
    },
    {
        ERR_ORDERSTATUS_CID_AND_CLT,
        "Order Status Only Customer ID or Last Name may be entered, not both."
    },
    {
        ERR_ORDERSTATUS_CID_INVALID,
        "Order Status Customer ID invalid, range must be numeric 1 - 3000."
    },
    {
        ERR_ORDERSTATUS_CLT_RANGE,
        "Order Status Customer last name longer than 16 characters."
    },
    {
        ERR_ORDERSTATUS_DID_INVALID,
        "Order Status District invalid, value must be numeric 1 - 10."
    },
    {
        ERR_ORDERSTATUS_MISSING_CID_CLT,
        "Order Status Either Customer ID or Last Name must be entered."
    },
    {
        ERR_ORDERSTATUS_MISSING_CID_KEY,
        "Order Status missing Customer key \"CID*\"."
    },
    {
        ERR_ORDERSTATUS_MISSING_CLT_KEY,
        "Order Status missing Customer Last Name key \"CLT*\"."
    },
    {
        ERR_ORDERSTATUS_MISSING_DID_KEY,
        "Order Status missing District key \"DID*\"."
    },
    {
        ERR_PAYMENT_CDI_INVALID,
        "Payment Customer district invalid must be numeric."
    },
    {
        ERR_PAYMENT_CID_AND_CLT,
        "Payment Only Customer ID or Last Name may be entered, not both."
    },
    {
        ERR_PAYMENT_CUSTOMER_INVALID,
        "Payment Customer data type invalid, must be numeric."
    },
    {
        ERR_PAYMENT_CWI_INVALID,
        "Payment Customer Warehouse invalid, must be numeric."
    },
    {
        ERR_PAYMENT_DISTRICT_INVALID,
        "Payment District ID is invalid, must be 1 - 10."
    },
    {
        ERR_PAYMENT_HAM_INVALID,
        "Payment Amount invalid data type must be numeric."
    },
    {
        ERR_PAYMENT_HAM_RANGE,
        "Payment Amount out of range, 0 - 9999.99."
    }
}

```

```

        {
            ERR_NEWORDER_NOITEMS_ENTERED,
            "Order No order lines entered."
        },
        {
            ERR_NEWORDER_QTY_INVALID,
            "New Order Qty invalid must be numeric range 1 - 99."
        },
        {
            ERR_NEWORDER_QTY_RANGE,
            "New Order Qty is out of range. Range = 1 to 99."
        },
        {
            ERR_NEWORDER_QTY_WITHOUT_SUPPW,
            "New Order Qty field entered without a corresponding Supp_W."
        },
        {
            ERR_NEWORDER_SUPPW_INVALID,
            "New Order Supp_W invalid data type must be numeric."
        },
        {
            ERR_NO_SERVER_SPECIFIED,
            "No Server name specified."
        },
        {
            ERR_ORDERSTATUS_CID_AND_CLT,
            "Order Status Only Customer ID or Last Name may be entered, not both."
        },
        {
            ERR_ORDERSTATUS_CID_INVALID,
            "Order Status Customer ID invalid, range must be numeric 1 - 3000."
        },
        {
            ERR_ORDERSTATUS_CLT_RANGE,
            "Order Status Customer last name longer than 16 characters."
        },
        {
            ERR_ORDERSTATUS_DID_INVALID,
            "Order Status District invalid, value must be numeric 1 - 10."
        },
        {
            ERR_ORDERSTATUS_MISSING_CID_CLT,
            "Order Status Either Customer ID or Last Name must be entered."
        },
        {
            ERR_ORDERSTATUS_MISSING_CID_KEY,
            "Order Status missing Customer key \"CID*\"."
        },
        {
            ERR_ORDERSTATUS_MISSING_CLT_KEY,
            "Order Status missing Customer Last Name key \"CLT*\"."
        },
        {
            ERR_ORDERSTATUS_MISSING_DID_KEY,
            "Order Status missing District key \"DID*\"."
        },
        {
            ERR_PAYMENT_CDI_INVALID,
            "Payment Customer district invalid must be numeric."
        },
        {
            ERR_PAYMENT_CID_AND_CLT,
            "Payment Only Customer ID or Last Name may be entered, not both."
        },
        {
            ERR_PAYMENT_CUSTOMER_INVALID,
            "Payment Customer data type invalid, must be numeric."
        },
        {
            ERR_PAYMENT_CWI_INVALID,
            "Payment Customer Warehouse invalid, must be numeric."
        },
        {
            ERR_PAYMENT_DISTRICT_INVALID,
            "Payment District ID is invalid, must be 1 - 10."
        },
        {
            ERR_PAYMENT_HAM_INVALID,
            "Payment Amount invalid data type must be numeric."
        },
        {
            ERR_PAYMENT_HAM_RANGE,
            "Payment Amount out of range, 0 - 9999.99."
        }
    },
}

```

```

        { ERR_PAYMENT_LAST_NAME_TO_LONG,
"Payment Customer last name longer than 16 characters."
        },
        { ERR_PAYMENT_MISSING_CDI_KEY,
"Payment missing Customer district key \"CDI*\"."
        },
        { ERR_PAYMENT_MISSING_CID_CLT,
"Payment Either Customer ID or Last Name must be entered."
        },
        { ERR_PAYMENT_MISSING_CID_KEY,
"Payment missing Customer Key \"CID*\"."
        },
        { ERR_PAYMENT_MISSING_CLT_KEY,
"Payment missing Customer Last Name key \"CLT*\"."
        },
        { ERR_PAYMENT_MISSING_CWI_KEY,
"Payment missing Customer Warehouse key \"CWI*\"."
        },
        { ERR_PAYMENT_MISSING_DID_KEY,
"Payment missing District Key \"DID*\"."
        },
        { ERR_PAYMENT_MISSING_HAM_KEY,
"Payment missing Amount key \"HAM*\"."
        },
        { ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY, "Stock Level;
missing Threshold key \"TT*\"."
        },
        { ERR_STOCKLEVEL_THRESHOLD_INVALID,
"Stock Level; Threshold value must be in the range = 1 - 99."
        },
        { ERR_STOCKLEVEL_THRESHOLD_RANGE,
"Stock Level Threshold out of range, range must be 1 - 99."
        },
        { ERR_VERSION_MISMATCH,
"Invalid version field. RTE and Web Client are probably out of
sync." },
        { ERR_W_ID_INVALID,
"Invalid Warehouse ID."
        },
        { 0, ""
        },
        }
};

static char szNotFound[] = "Unknown error number.";

for(i=0; errorMsgs[i].szMsg[0]; i++)
{
    if ( m_Error == errorMsgs[i].iError )
        break;
}
if ( !errorMsgs[i].szMsg[0] )
    return szNotFound;
else
    return errorMsgs[i].szMsg;
}

/* FUNCTION: BOOL GetKeyValue
 *
 * PURPOSE: This function parses a http formatted string for specific key
values.
 *

```

```

 * ARGUMENTS: char *pQueryString http string
from client browser
 * char *pKey
key value to look for
 * char *pValue
character array into which to place key's value
 * int iMax
maximum length of key value array.
 * RETURNS: BOOL FALSE key value not found
TRUE key valud
found
 *
 * COMMENTS: http keys are formatted either KEY=value& or KEY=value\0. This
DLL formats
 * TPC-C input fields in such a manner that the
keys can be extracted in the
 * above manner.
 */

BOOL GetKeyValue(char **pQueryString, char *pKey, char *pValue, int iMax)
{
    char *ptr;
    if ( !(ptr=strstr(*pQueryString, pKey)) )
        return FALSE;
    if ( !(ptr=strchr(ptr, '=') )
        return FALSE;
    ptr++;
    iMax--; // one position is for terminating null
    while( *ptr && *ptr != '&' && iMax)
    {
        *pValue++ = *ptr++;
        iMax--;
    }
    *pValue = 0; // terminating null
    *pQueryString = ptr;
    return TRUE;
}

/* FUNCTION: TermInit
 *
 * PURPOSE: This function initializes the client terminal structure; it is
called when the TPCC.DLL
 * is first loaded by the inet service.
 *
 */

void TermInit(void)
{
    EnterCriticalSection(&TermCriticalSection);

    Term.iMasterSyncId = 1;
    Term.iNumEntries = iMaxConnections+1;

    Term.pClientData = NULL;
    Term.pClientData = (PCLIENTDATA)malloc(Term.iNumEntries *
sizeof(CLIENTDATA));
    if (Term.pClientData == NULL)
    {
        LeaveCriticalSection(&TermCriticalSection);
    }
}

```

```

        throw new CWBCLNT_ERR( ERR_MEM_ALLOC_FAILED );
    }

    ZeroMemory( Term.pClientData, Term.iNumEntries * sizeof(CLIENTDATA) );

    Term.iFreeList          = Term.iNumEntries-1;
    // build free list
    // note: Term.pClientData[0].iNextFree gets set to -1, which marks it as
    "in use".
    // This is intentional, as the zero entry is used as an anchor and
    never
    // allocated as an actual terminal.
    for(int i=0; i<Term.iNumEntries; i++)
        Term.pClientData[i].iNextFree = i-1;

    LeaveCriticalSection(&TermCriticalSection);

/* FUNCTION: TermDeleteAll
 *
 * PURPOSE:      This function frees allocated resources associated with the
 * terminal structure.
 *
 * ARGUMENTS:    none
 *
 * RETURNS:      None
 *
 * COMMENTS:     This function is called only when the inet service unloads the
 * TPCC.DLL
 *
 */

void TermDeleteAll(void)
{
    EnterCriticalSection(&TermCriticalSection);

    for(int i=1; i<Term.iNumEntries; i++)
    {
        if (Term.pClientData[i].iNextFree == -1)
            delete Term.pClientData[i].pTxn;
    }

    Term.iFreeList          = 0;
    Term.iNumEntries        = 0;
    if ( Term.pClientData )
        free(Term.pClientData);
    Term.pClientData        = NULL;

    LeaveCriticalSection(&TermCriticalSection);
}

/* FUNCTION: TermAdd
 *
 * PURPOSE:      This function assigns a terminal id which is used to identify a
 * client browser.
 *
 * RETURNS:      int          assigned terminal id
 *
 */

int TermAdd(void)
{
    DWORD    i;

```

```

        int          iNewTerm, iTickCount;

    if (Term.iNumEntries == 0)
        return -1;

    EnterCriticalSection(&TermCriticalSection);
    if (Term.iFreeList != 0)
    {
        // position is available
        iNewTerm = Term.iFreeList;
        Term.iFreeList = Term.pClientData[iNewTerm].iNextFree;
        Term.pClientData[iNewTerm].iNextFree = -1; // indicates this
    }
    position is in use
    }
    else
    {
        // no open slots, so find the slot that hasn't been used in the
        longest time and reuse it
        for(iNewTerm=1, i=1, iTickCount=0x7FFFFFFF; i<iMaxConnections;
        i++)
        {
            if (iTickCount > Term.pClientData[i].iTickCount)
            {
                iTickCount = Term.pClientData[i].iTickCount;
                iNewTerm = i;
            }
        }
        // if oldest term is less than one minute old, it probably means
        that more connections // are being attempted than were specified as "Max Connections"
        at install. In this case,
        // do not bump existing connection; instead, return error to
        requestor.
        if ((GetTickCount() - iTickCount) < 60000)
        {
            LeaveCriticalSection(&TermCriticalSection);
            throw new CWBCLNT_ERR( ERR_MAX_CONNECTIONS_EXCEEDED
        );
        }
    }

    Term.pClientData[iNewTerm].iTickCount = GetTickCount();
    Term.pClientData[iNewTerm].iSyncId = Term.iMasterSyncId++;
    Term.pClientData[iNewTerm].pTxn = NULL;

    LeaveCriticalSection(&TermCriticalSection);
    return iNewTerm;
}

/* FUNCTION: TermDelete
 *
 * PURPOSE:      This function makes a terminal entry in the Term array available
 * for reuse.
 *
 * ARGUMENTS:    int          id
 *               Terminal id of client exiting
 *
 */

void TermDelete(int id)
{
    if ( id > 0 && id < Term.iNumEntries )
    {
        delete Term.pClientData[id].pTxn;
    }
}

```

```

        // put onto free list
        EnterCriticalSection(&TermCriticalSection);

        Term.pClientData[id].iNextFree = Term.iFreeList;
        Term.iFreeList = id;

    }

    LeaveCriticalSection(&TermCriticalSection);
}

/* FUNCTION: MakeErrorForm
*/

void ErrorForm(EXTENSION_CONTROL_BLOCK *pECB, int iType, int iErrorNum, int iTermId,
int iSyncId, char *szErrorText, Char *szBuffer )
{
    wsprintf(szBuffer,
        "<HTML><HEAD><TITLE>TPC-C Error</TITLE></HEAD><BODY>"
        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<BOLD>An Error Occurred</BOLD><BR><BR>"
        "%s"
        "<BR><BR><HR>"
        "<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..\">"
        "</FORM></BODY></HTML>"
        , iType, iErrorNum, MAIN_MENU_FORM, iTermId, iSyncId,
szErrorText );
}

/* FUNCTION: MakeMainMenuForm
*/

void MakeMainMenuForm(int iTermId, int iSyncId, char *szForm)
{
    wsprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C Main Menu</TITLE></HEAD><BODY>"
        "Select Desired Transaction.<BR><HR>"
        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<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..\">"
        "</FORM></BODY></HTML>"
        , MAIN_MENU_FORM, iTermId, iSyncId);
}

```

```

}

/* FUNCTION: MakeStockLevelForm
*
* PURPOSE:          This function constructs the Stock Level HTML page.
*
* COMMENTS:        The internal client buffer is created when the terminal id is
                    assigned and should not
                    be freed except when the client terminal id
                    is no longer needed.
*/

void MakeStockLevelForm(int iTermId, STOCK_LEVEL_DATA *pStockLevelData, BOOL bInput,
char *szForm)
{
    int c;

    c = wsprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C Stock Level</TITLE></HEAD><FORM
ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<PRE><font face=\"Courier\">"
        "Stock-Level<BR>"
        "Warehouse: %4.4d District: %2.2d<BR><BR>",
        STOCK_LEVEL_FORM, iTermId, Term.pClientData[iTermId].iSyncId,
        Term.pClientData[iTermId].w_id, Term.pClientData[iTermId].d_id);

    if ( bInput )
    {
        strcpy(szForm+c,
            "Stock Level Threshold: <INPUT NAME=\"TT*\"
SIZE=2><BR> <BR>"
            "low stock:  </font><BR> <BR> <BR> <BR> <BR> <BR>"
            " <BR> <BR> <BR> <BR> <BR> <BR> <BR></PRE><HR>"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"Process\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">"
            "</FORM></HTML>" );
    }
    else
    {
        wsprintf(szForm+c,
            "Stock Level Threshold: %2.2d<BR> <BR>"
            "low stock: %3.3d</font> <BR> <BR> <BR> <BR> <BR> <BR> <BR>"
            " <BR> <BR> <BR> <BR> <BR> <BR> <BR></PRE><HR>"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..NewOrder..\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Payment..\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Delivery..\">"
            "Status..\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Order-
Level..\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Exit..\">"
            "</FORM></HTML>" );
    }
}

```



```

        "/</FORM></HTML>"
        , pStockLevelData->threshold, pStockLevelData-
>low_stock);
    }
}

/* FUNCTION: MakeNewOrderForm
 *
 * COMMENTS:      The internal client buffer is created when the terminal id is
assigned and should not
 *
 *                be freed except when the client terminal id
is no longer needed.
 */

void MakeNewOrderForm(int iTermId, NEW_ORDER_DATA *pNewOrderData, BOOL bInput, char
*szForm)
{
    int          i, c;
    BOOL         bValid;
    static char  szBR[] = " <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR> <BR>";

    assert( pNewOrderData->exec_status_code == eOK || pNewOrderData-
>exec_status_code == eInvalidItem );

    bValid = (bInput || (pNewOrderData->exec_status_code == eOK));

    c = wsprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C New Order</TITLE></HEAD><BODY>"
        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<PRE><font face=\"Courier\">"

New Order<BR>"
        , bValid ? 0 : ERR_BAD_ITEM_ID, NEW_ORDER_FORM, iTermId,
Term.pClientData[iTermId].iSyncId);

    if ( bInput )
    {
        c += wsprintf(szForm+c, "Warehouse: %4.4d  ",
Term.pClientData[iTermId].w_id );

        strcpy( szForm+c,
            "District: <INPUT NAME=\"DID*\" SIZE=1>"

Date:<BR>"
            "Customer: <INPUT NAME=\"CID*\" SIZE=4>  Name:
Credit:      %Disc:<BR>"
            "Order Number:      Number of Lines:
W_tax:      D_tax:<BR> <BR>"
            "  Supp_W  Item_Id  Item Name          Qty
Stock B/G Price  Amount<BR>"
            " <INPUT NAME=\"SP00*\" SIZE=4> <INPUT
NAME=\"IID00*\" SIZE=6> <INPUT NAME=\"Qty00*\"
SIZE=1><BR>"
            " <INPUT NAME=\"SP01*\" SIZE=4> <INPUT
NAME=\"IID01*\" SIZE=6> <INPUT NAME=\"Qty01*\"
SIZE=1><BR>"
            " <INPUT NAME=\"SP02*\" SIZE=4> <INPUT
NAME=\"IID02*\" SIZE=6> <INPUT NAME=\"Qty02*\"
SIZE=1><BR>"

```

```

        NAME=\"IID03*\" SIZE=6> <INPUT
NAME=\\\"IID03*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP03*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty03*\\\"
SIZE=1><BR>"
        NAME=\"IID04*\" SIZE=6> <INPUT
NAME=\\\"IID04*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP04*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty04*\\\"
SIZE=1><BR>"
        NAME=\"IID05*\" SIZE=6> <INPUT
NAME=\\\"IID05*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP05*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty05*\\\"
SIZE=1><BR>"
        NAME=\"IID06*\" SIZE=6> <INPUT
NAME=\\\"IID06*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP06*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty06*\\\"
SIZE=1><BR>"
        NAME=\"IID07*\" SIZE=6> <INPUT
NAME=\\\"IID07*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP07*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty07*\\\"
SIZE=1><BR>"
        NAME=\"IID08*\" SIZE=6> <INPUT
NAME=\\\"IID08*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP08*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty08*\\\"
SIZE=1><BR>"
        NAME=\"IID09*\" SIZE=6> <INPUT
NAME=\\\"IID09*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP09*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty09*\\\"
SIZE=1><BR>"
        NAME=\"IID10*\" SIZE=6> <INPUT
NAME=\\\"IID10*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP10*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty10*\\\"
SIZE=1><BR>"
        NAME=\"IID11*\" SIZE=6> <INPUT
NAME=\\\"IID11*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP11*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty11*\\\"
SIZE=1><BR>"
        NAME=\"IID12*\" SIZE=6> <INPUT
NAME=\\\"IID12*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP12*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty12*\\\"
SIZE=1><BR>"
        NAME=\"IID13*\" SIZE=6> <INPUT
NAME=\\\"IID13*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP13*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty13*\\\"
SIZE=1><BR>"
        NAME=\"IID14*\" SIZE=6> <INPUT
NAME=\\\"IID14*\\\" SIZE=6> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"SP14*\\\" SIZE=4> <INPUT
SIZE=1><BR>" <INPUT NAME=\\\"Qty14*\\\"
SIZE=1><BR>"

"Execution Status:
Total:<BR>"
" </font></PRE><HR>"
" <INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\\\"Process\\\">"
" <INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\\\"Menu\\\">"
" </FORM></HTML>"
);
}
else
{
    c += wsprintf(szForm+c, "Warehouse: %4.4d  District: %2.2d
Date: ",
pNewOrderData->w_id,
pNewOrderData->d_id);

    if ( bValid )
    {
        c += wsprintf(szForm+c, "%2.2d-%2.2d-%4.4d
%2.2d:%2.2d:%2.2d",
pNewOrderData->o_entry_d.day,
pNewOrderData->o_entry_d.month,
pNewOrderData->o_entry_d.year,
pNewOrderData->o_entry_d.hour,
pNewOrderData->o_entry_d.minute,
pNewOrderData->o_entry_d.second);
    }
}

```

```

        c += sprintf(szForm+c, "<BR>Customer: %4.4d Name: %-16s
Credit: %-2s ",
        pNewOrderData->c_id, pNewOrderData->c_last,
pNewOrderData->c_credit);
        if ( bValid )
        {
            c += sprintf(szForm+c,
                "%Disc: %5.2f
                "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>",
                100.0*pNewOrderData->c_discount,
                pNewOrderData->o_id,
                pNewOrderData->o_ol_cnt,
                100.0 * pNewOrderData->w_tax,
                100.0 * pNewOrderData->d_tax);
            for(i=0; i<pNewOrderData->o_ol_cnt; i++)
            {
                c += sprintf(szForm+c, " %4.4d %6.6d %-
24s %2.2d %3.3d %1.1s %$6.2f %$7.2f <BR>",
                pNewOrderData-
                pNewOrderData->OL[i].ol_i_id,
                pNewOrderData->OL[i].ol_i_name,
                pNewOrderData->OL[i].ol_quantity,
                pNewOrderData->OL[i].ol_stock,
                pNewOrderData-
                pNewOrderData->OL[i].ol_i_price,
                pNewOrderData->OL[i].ol_amount );
            }
        }
        else
        {
            c += sprintf(szForm+c,
                "%Disc:<BR>"
                "Order Number: %8.8d Number of Lines:
                " Supp_W Item_Id Item Name
W_tax: D_tax:<BR> <BR>"
                " Supp_W Item_Id Item Name
Qty Stock B/G Price Amount<BR>"
                , pNewOrderData->o_id);
            i = 0;
            strncpy( szForm+c, szBR, (15-i)*5 );
            c += (15-i)*5;
            if ( bValid )
                c += sprintf(szForm+c, "Execution Status: Transaction
                Total: %$8.2f ",
                pNewOrderData->total_amount);
            else
                c += sprintf(szForm+c, "Execution Status: Item number
                Total:");
            strcpy(szForm+c,
                " <BR></font></PRE><HR>"

```

```

        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..\">"
        "</FORM></HTML>"
    );
}
}
/* FUNCTION: MakePaymentForm
 *
 * COMMENTS: The internal client buffer is created when the terminal id is
 * assigned and should not
 * be freed except when the client terminal id
 * is no longer needed.
 */
void MakePaymentForm(int iTermId, PAYMENT_DATA *pPaymentData, BOOL bInput, char
*szForm)
{
    int c;
    c = sprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C Payment</TITLE></HEAD><BODY>"
        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<PRE><font face=\"Courier\">"
        Payment<BR>"
        "Date: "
        , PAYMENT_FORM, iTermId, Term.pClientData[iTermId].iSyncId);
    if ( !bInput )
    {
        c += sprintf(szForm+c, "%2.2d-%2.2d-%4.4d %2.2d:%2.2d:%2.2d",
            pPaymentData->h_date.day,
            pPaymentData->h_date.month,
            pPaymentData->h_date.year,
            pPaymentData->h_date.hour,
            pPaymentData->h_date.minute,
            pPaymentData->h_date.second);
    }
    if ( bInput )
    {
        c += sprintf(szForm+c,
            "<BR> <BR>Warehouse: %4.4d
            " District: <INPUT
            NAME=\"DID*\" SIZE=1><BR> <BR> <BR> <BR> <BR>"
            "Customer: <INPUT NAME=\"CID*\" SIZE=4>"
            "Cust-Warehouse: <INPUT NAME=\"CWI*\" SIZE=4> "
            "Cust-District: <INPUT NAME=\"CDI*\" SIZE=1><BR>"

```

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                "Name:                <INPUT NAME=\"CLT*\"
SIZE=16>                Since:<BR>\"
                \"
Credit:<BR>\"           \"
Disc:<BR>\"             \"
Phone:<BR> <BR>\"       \"
New Cust-Balance:<BR>\" \"Amount Paid:          $<INPUT NAME=\"HAM*\" SIZE=7>
<BR></font></PRE><HR>\"  \"Credit Limit:<BR> <BR>Cust-Data: <BR> <BR> <BR> <BR>
                \"<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"Process\"><INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">\"
                \"</BODY></FORM></HTML>\"
                , Term.pClientData[iTermId].w_id);
    }
    else
    {
        c += sprintf(szForm+c,
District: %2.2d<BR>\"      \"<BR> <BR>Warehouse: %4.4d
                \"%-20s          %-20s<BR>\"
                \"%-20s          %-20s<BR>\"
                \"%-20s %-2s %5.5s-%4.4s      %-20s %-2s %5.5s-
%4.4s<BR> <BR>\"      \"Customer: %4.4d Cust-Warehouse: %4.4d Cust-
District: %2.2d<BR>\"      \"Name:  %-16s %-2s %-16s      Since: %2.2d-%2.2d-
%4.4d<BR>\"      \"          %-20s          Credit: %-2s<BR>\"
                , Term.pClientData[iTermId].w_id, pPaymentData->d_id
                , pPaymentData->w_street_1, pPaymentData->d_street_1
                , pPaymentData->w_street_2, pPaymentData->d_street_2
                , pPaymentData->w_city, pPaymentData->w_state,
pPaymentData->w_zip, pPaymentData->w_zip+5
                , pPaymentData->d_city, pPaymentData->d_state,
pPaymentData->d_zip, pPaymentData->d_zip+5
                , pPaymentData->c_id, pPaymentData->c_w_id,
                pPaymentData->c_d_id
                , pPaymentData->c_first, pPaymentData->c_middle,
pPaymentData->c_last
                , pPaymentData->c_since.day, pPaymentData-
>c_since.month, pPaymentData->c_since.year
                , pPaymentData->c_street_1, pPaymentData->c_credit
                );
        c += sprintf(szForm+c,
                \"%-20s          %%Disc:
%5.2f<BR>\",
                pPaymentData->c_street_2, 100.0*pPaymentData-
>c_discount);
        c += sprintf(szForm+c,
                \"%-20s %-2s %5.5s-%4.4s      Phone: %6.6s-
%3.3s-%3.3s-%4.4s<BR> <BR>\",
                pPaymentData->c_city, pPaymentData->c_state,
pPaymentData->c_zip, pPaymentData->c_zip+5,
                pPaymentData->c_phone, pPaymentData->c_phone+6,
pPaymentData->c_phone+9, pPaymentData->c_phone+12 );
        c += sprintf(szForm+c,

```

```

                \"Amount Paid:          $%7.2f      New Cust-Balance:
$%14.2f<BR>\"
                \"Credit Limit:  $%13.2f<BR> <BR>\"
                , pPaymentData->h_amount, pPaymentData->c_balance
                , pPaymentData->c_credit_lim
                );
        if ( pPaymentData->c_credit[0] == 'B' && pPaymentData-
>c_credit[1] == 'C' )
            c += sprintf(szForm+c,
                \"Cust-Data: %%-50.50s<BR>
%-50.50s<BR>          %-50.50s<BR>          %-50.50s<BR>\",
                pPaymentData->c_data,
                pPaymentData->c_data+50, pPaymentData->c_data+100, pPaymentData->c_data+150 );
            else
                strcpy(szForm+c, \"Cust-Data: <BR> <BR> <BR> <BR>\" );
            strcat(szForm,
                \" <BR></font></PRE><HR>\"
                \"<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..\">\"
                \"</BODY></FORM></HTML>\" );
    }
    /* FUNCTION: MakeOrderStatusForm
    *
    * COMMENTS:      The internal client buffer is created when the terminal id is
    assigned and should not
    *
    *                  be freed except when the client terminal id
    is no longer needed.
    */
    void MakeOrderStatusForm(int iTermId, ORDER_STATUS_DATA *pOrderStatusData, BOOL
bInput, char *szForm)
    {
        int          i, c;
        static char szBR[] = \" <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR>\";
        c = sprintf(szForm,
                \"<HTML><HEAD><TITLE>TPC-C Order-Status</TITLE></HEAD><BODY>\"
                \"<FORM ACTION=\"tpec.dll\" METHOD=\"GET\">\"
                \"<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"0\">\"
                \"<INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"0\">\"
                \"<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">\"
                \"<INPUT TYPE=\"hidden\" NAME=\"TERMINID\" VALUE=\"%d\">\"
                \"<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">\"
                \"<PRE><font face=\"Courier\">
Order-Status<BR>\"
                \"Warehouse: %4.4d      \",

```

```

ORDER_STATUS_FORM, iTermId, Term.pClientData[iTermId].iSyncId,
Term.pClientData[iTermId].w_id);
    if ( bInput )
    {
        strcpy(szForm+c,
            "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> <BR> <BR> <BR> <BR>"
            " <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR></font></PRE>"
            "<HR><INPUT TYPE=\"submit\" NAME=\"CMD\""
            VALUE=\"Process\"><INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">"
            "</BODY></FORM></HTML>" );
    }
    else
    {
        c += sprintf(szForm+c,
            "District: %2.2d<BR>"
            "Customer: %4.4d Name: %-16s %-2s %-16s<BR>",
            pOrderStatusData->d_id, pOrderStatusData->c_id,
            pOrderStatusData->c_first, pOrderStatusData->c_middle,
            pOrderStatusData->c_last);

        c += sprintf(szForm+c, "Cust-Balance: $%9.2f<BR> <BR>",
            pOrderStatusData->c_balance);

        c += sprintf(szForm+c,
            "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>",
            pOrderStatusData->o_id,
            pOrderStatusData->o_entry_d.day,
            pOrderStatusData->o_entry_d.month,
            pOrderStatusData->o_entry_d.year,
            pOrderStatusData->o_entry_d.hour,
            pOrderStatusData->o_entry_d.minute,
            pOrderStatusData->o_entry_d.second,
            pOrderStatusData->o_carrier_id);

        for(i=0; i< pOrderStatusData->o_ol_cnt; i++)
        {
            c += sprintf(szForm+c, " %4.4d %6.6d %2.2d
            %8.2f %2.2d-%2.2d-%4.4d<BR>",
                pOrderStatusData->OL[i].ol_supply_w_id,
                pOrderStatusData->OL[i].ol_i_id,
                pOrderStatusData->OL[i].ol_quantity,
                pOrderStatusData->OL[i].ol_amount,
                pOrderStatusData->OL[i].ol_delivery_d.day,
                pOrderStatusData->OL[i].ol_delivery_d.month,
                pOrderStatusData->OL[i].ol_delivery_d.year);
        }

        strncpy( szForm+c, szBR, (15-i)*5 );
        c += (15-i)*5;

        strcpy(szForm+c,

```

```

        "</font></PRE><HR><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..\">"
        "</BODY></FORM></HTML>" );
    }
}

/* FUNCTION: MakeDeliveryForm
 *
 * COMMENTS: The internal client buffer is created when the terminal id is
assigned and should not
 *
 * be freed except when the client terminal id
is no longer needed.
 */

void MakeDeliveryForm(int iTermId, DELIVERY_DATA *pDeliveryData, BOOL bInput, char
*szForm)
{
    int c;

    c = sprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C Delivery</TITLE></HEAD><BODY>"
        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<PRE><font face=\"Courier\">"
        Delivery<BR>"
        "Warehouse: %4.4d<BR> <BR>",
        (!bInput && (pDeliveryData->exec_status_code != eOK)) ?
        ERR_TYPE_DELIVERY_POST : 0,
        DELIVERY_FORM, iTermId, Term.pClientData[iTermId].iSyncId,
        Term.pClientData[iTermId].w_id);

    if ( bInput )
    {
        strcpy( szForm+c,
            "Carrier Number: <INPUT NAME=\"OCD*\" SIZE=1><BR>
<BR>"
            "Execution Status: <BR> <BR> <BR> <BR> <BR> <BR>
<BR>"
            " <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
</font></PRE><HR>"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\""
            VALUE=\"Process\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">"
            "</BODY></FORM></HTML>" );
    }
    else
    {
        sprintf( szForm+c,
            "Carrier Number: %2.2d<BR> <BR>"

```

```

"Execution Status: %s <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>"
<BR> <BR>"
</font></PRE>"
VALUE=\\.NewOrder\\.>"
VALUE=\\.Payment\\.>"
VALUE=\\.Delivery\\.>"
Status\\.>"
Level\\.>"
VALUE=\\.Exit\\.>"
" <HR><INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\"
" <INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\"
" <INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\"
" <INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\" VALUE=\\.Order-
" <INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\" VALUE=\\.Stock-
" <INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\"
" </BODY></FORM></HTML>"
, pDeliveryData->o_carrier_id,
(pDeliveryData->exec_status_code == eOK) ? "Delivery
has been queued." : "Delivery Post Failed "
);
}
}
/* FUNCTION: ProcessNewOrderForm
*
* PURPOSE: This function gets and validates the input data from the new
order form
*
* filling in the required input variables. it then calls
the SQLNewOrder
*
* transaction, constructs the output form and writes it
back to client
*
* browser.
*/
void ProcessNewOrderForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char
*szBuffer)
{
PNEW_ORDER_DATA pNewOrder;
pNewOrder = Term.pClientData[iTermId].pTxn->BuffAddr_NewOrder();
ZeroMemory(pNewOrder, sizeof(NEW_ORDER_DATA));
pNewOrder->w_id = Term.pClientData[iTermId].w_id;
GetNewOrderData(pECB->lpszQueryString, pNewOrder);
Term.pClientData[iTermId].pTxn->NewOrder();
pNewOrder = Term.pClientData[iTermId].pTxn->BuffAddr_NewOrder();
MakeNewOrderForm(iTermId, pNewOrder, OUTPUT_FORM, szBuffer);
}
/* FUNCTION: void ProcessPaymentForm
*
* PURPOSE: This function gets and validates the input data from the payment
form
*
* filling in the required input variables. It then calls
the SQLPayment
*
* transaction, constructs the output form and writes it
back to client
*
* browser.
*

```

```

* ARGUMENTS: EXTENSION_CONTROL_BLOCK *pECB passed in structure
pointer from inetsrv.
*
* int
iTermId client browser terminal id
*/
void ProcessPaymentForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char *szBuffer)
{
PPAYMENT_DATA pPayment;
pPayment = Term.pClientData[iTermId].pTxn->BuffAddr_Payment();
ZeroMemory(pPayment, sizeof(PAYMENT_DATA));
pPayment->w_id = Term.pClientData[iTermId].w_id;
GetPaymentData(pECB->lpszQueryString, pPayment);
Term.pClientData[iTermId].pTxn->Payment();
pPayment = Term.pClientData[iTermId].pTxn->BuffAddr_Payment();
MakePaymentForm(iTermId, pPayment, OUTPUT_FORM, szBuffer);
}
/* FUNCTION: ProcessOrderStatusForm
*
* PURPOSE: This function gets and validates the input data from the Order
Status
*
* form filling in the required input variables. It then
calls the
*
* SQLOrderStatus transaction, constructs the output form
and writes it
*
* back to client browser.
*
* ARGUMENTS: EXTENSION_CONTROL_BLOCK *pECB passed in structure
pointer from inetsrv.
*
* int
iTermId client browser terminal id
*
*/
void ProcessOrderStatusForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char
*szBuffer)
{
PORDER_STATUS_DATA pOrderStatus;
pOrderStatus = Term.pClientData[iTermId].pTxn->BuffAddr_OrderStatus();
ZeroMemory(pOrderStatus, sizeof(ORDER_STATUS_DATA));
pOrderStatus->w_id = Term.pClientData[iTermId].w_id;
GetOrderStatusData(pECB->lpszQueryString, pOrderStatus);
Term.pClientData[iTermId].pTxn->OrderStatus();
pOrderStatus = Term.pClientData[iTermId].pTxn->BuffAddr_OrderStatus();
MakeOrderStatusForm(iTermId, pOrderStatus, OUTPUT_FORM, szBuffer);
}
/* FUNCTION: ProcessDeliveryForm
*
* PURPOSE: This function gets and validates the input data from the
delivery form
*
* filling in the required input variables. It then calls
the PostDeliveryInfo
*
* Api, The client is then informed that the transaction
has been posted.

```

```

*
* ARGUMENTS:      EXTENSION_CONTROL_BLOCK      *pECB      passed in structure
pointer from inetsrv.
*
*                  int
*                  iTermId      client browser terminal id
*/

void ProcessDeliveryForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char *szBuffer)
{
    char      szTmp[26];
    char      *ptr = pECB->lpszQueryString;

    PDELIVERY_DATA      pDelivery;

    pDelivery = Term.pClientData[iTermId].pTxn->BuffAddr_Delivery();
    ZeroMemory(pDelivery, sizeof(DELIVERY_DATA));
    pDelivery->w_id = Term.pClientData[iTermId].w_id;

    if ( !GetKeyValue(&ptr, "OCD*", szTmp, sizeof(szTmp)) )
        throw new CWEBCLNT_ERR( ERR_DELIVERY_MISSING_OCD_KEY );
    if ( !IsNumeric(szTmp) )
        throw new CWEBCLNT_ERR( ERR_DELIVERY_CARRIER_INVALID );
    pDelivery->o_carrier_id = atoi(szTmp);

    if ( pDelivery->o_carrier_id > 10 || pDelivery->o_carrier_id < 1 )
        throw new CWEBCLNT_ERR( ERR_DELIVERY_CARRIER_ID_RANGE );

    if (dwNumDeliveryThreads)
    {
        //post delivery info
        if ( PostDeliveryInfo(pDelivery->w_id, pDelivery->o_carrier_id)

                pDelivery->exec_status_code = eDeliveryFailed;
            else
                pDelivery->exec_status_code = eOK;
        }
    else // delivery is done synchronously if not using a txn monitor
        Term.pClientData[iTermId].pTxn->Delivery();

    pDelivery = Term.pClientData[iTermId].pTxn->BuffAddr_Delivery();
    MakeDeliveryForm(iTermId, pDelivery, OUTPUT_FORM, szBuffer);
}

/* FUNCTION: ProcessStockLevelForm
*
* PURPOSE:      This function gets and validates the input data from the Stock
Level
*
*                  form filling in the required input variables. It then
calls the
*                  SQLStockLevel transaction, constructs the output form
and writes it
*                  back to client browser.
*
* ARGUMENTS:      EXTENSION_CONTROL_BLOCK      *pECB      passed in structure
pointer from inetsrv.
*
*                  int
*                  iTermId      client browser terminal id
*/

void ProcessStockLevelForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char
*szBuffer)

```

```

{
    char      szTmp[26];
    char      *ptr = pECB->lpszQueryString;

    PSTOCK_LEVEL_DATA      pStockLevel;

    pStockLevel = Term.pClientData[iTermId].pTxn->BuffAddr_StockLevel();
    ZeroMemory( pStockLevel, sizeof(STOCK_LEVEL_DATA) );

    pStockLevel->w_id = Term.pClientData[iTermId].w_id;
    pStockLevel->d_id = Term.pClientData[iTermId].d_id;

    if ( !GetKeyValue(&ptr, "TT*", szTmp, sizeof(szTmp)) )
        throw new CWEBCLNT_ERR( ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY );
    if ( !IsNumeric(szTmp) )
        throw new CWEBCLNT_ERR( ERR_STOCKLEVEL_THRESHOLD_INVALID );
    pStockLevel->threshold = atoi(szTmp);

    if ( pStockLevel->threshold >= 100 || pStockLevel->threshold < 0 )
        throw new CWEBCLNT_ERR( ERR_STOCKLEVEL_THRESHOLD_RANGE );

    Term.pClientData[iTermId].pTxn->StockLevel();

    pStockLevel = Term.pClientData[iTermId].pTxn->BuffAddr_StockLevel();
    MakeStockLevelForm(iTermId, pStockLevel, OUTPUT_FORM, szBuffer);
}

/* FUNCTION: GetNewOrderData
*
* PURPOSE:      This function extracts and validates the new order form data
from an http command string.
*
* ARGUMENTS:      LPSTR                  lpszQueryString
client browser http command string
*                  NEW_ORDER_DATA      *pNewOrderData
pointer to new order data structure
*
*/

void GetNewOrderData(LPSTR lpszQueryString, NEW_ORDER_DATA *pNewOrderData)
{
    char      szTmp[26];
    int      i;
    short     items;
    int      ol_i_id, ol_quantity;
    char      *ptr = lpszQueryString;

    static char szSP[MAX_OL_NEW_ORDER_ITEMS][6] =
    { "SP00*", "SP01*", "SP02*", "SP03*", "SP04*",
      "SP05*", "SP06*", "SP07*", "SP08*", "SP09*",
      "SP10*", "SP11*", "SP12*", "SP13*", "SP14*" };
    static char szIID[MAX_OL_NEW_ORDER_ITEMS][7] =
    { "IID00*", "IID01*", "IID02*", "IID03*", "IID04*",
      "IID05*", "IID06*", "IID07*", "IID08*", "IID09*",
      "IID10*", "IID11*", "IID12*", "IID13*", "IID14*" };
    static char szQty[MAX_OL_NEW_ORDER_ITEMS][7] =
    { "Qty00*", "Qty01*", "Qty02*", "Qty03*", "Qty04*",
      "Qty05*", "Qty06*", "Qty07*", "Qty08*", "Qty09*",
      "Qty10*", "Qty11*", "Qty12*", "Qty13*", "Qty14*" };

    if ( !GetKeyValue(&ptr, "DID*", szTmp, sizeof(szTmp)) )
        throw new CWEBCLNT_ERR( ERR_NEWORDER_FORM_MISSING_DID );
}

```

```

if ( !IsNumeric(szTmp) )
    throw new CWEBCLNT_ERR( ERR_NEWORDER_DISTRICT_INVALID );
pNewOrderData->d_id = atoi(szTmp);

if ( !GetKeyValue(&ptr, "CID*", szTmp, sizeof(szTmp)) )
    throw new CWEBCLNT_ERR( ERR_NEWORDER_CUSTOMER_KEY );

if ( !IsNumeric(szTmp) )
    throw new CWEBCLNT_ERR( ERR_NEWORDER_CUSTOMER_INVALID );
pNewOrderData->c_id = atoi(szTmp);

for(i=0, items=0; i<MAX_OL_NEW_ORDER_ITEMS; i++)
{
    if ( !GetKeyValue(&ptr, szSP[i], szTmp, sizeof(szTmp)) )
        throw new CWEBCLNT_ERR( ERR_NEWORDER_MISSING_SUPPW_KEY );
}

if ( szTmp[0] )
{
    if ( !IsNumeric(szTmp) )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_SUPPW_INVALID );
pNewOrderData->OL[items].ol_supply_w_id =
(short)atoi(szTmp);

    if ( !GetKeyValue(&ptr, szIID[i], szTmp,
sizeof(szTmp)) )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_MISSING_IID_KEY );
    if ( !IsNumeric(szTmp) )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_ITEMID_INVALID );
    ol_i_id = pNewOrderData->OL[items].ol_i_id =
atoi(szTmp);
    if ( ol_i_id > 999999 || ol_i_id < 1 )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_ITEMID_RANGE );

    if ( !GetKeyValue(&ptr, szQty[i], szTmp,
sizeof(szTmp)) )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_MISSING_QTY_KEY );
    if ( !IsNumeric(szTmp) )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_QTY_INVALID );
    ol_quantity = pNewOrderData->OL[items].ol_quantity =
atoi(szTmp);
    if ( ol_quantity > 99 || ol_quantity < 1 )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_QTY_RANGE );

    items++;
}
else
{
    // nothing entered for supply warehouse, so item id
and qty must also be blank
    if ( !GetKeyValue(&ptr, szIID[i], szTmp,
sizeof(szTmp)) )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_MISSING_IID_KEY );

    if ( szTmp[0] )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_ITEMID_WITHOUT_SUPPW );
}
}

```

```

if ( !GetKeyValue(&ptr, szQty[i], szTmp,
sizeof(szTmp)) )
    throw new CWEBCLNT_ERR(
ERR_NEWORDER_MISSING_QTY_KEY );

    if ( szTmp[0] )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_QTY_WITHOUT_SUPPW );
    }
    if ( items == 0 )
        throw new CWEBCLNT_ERR( ERR_NEWORDER_NOITEMS_ENTERED );

    pNewOrderData->o_ol_cnt = items;
}

/* FUNCTION: GetPaymentData
 *
 * PURPOSE:      This function extracts and validates the payment form data from
an http command string.
 *
 * ARGUMENTS:    LPSTR          lpszQueryString
                client browser http command string
                PAYMENT_DATA    *pPaymentData
 *
 *              pointer to payment data structure
 */

void GetPaymentData(LPSTR lpszQueryString, PAYMENT_DATA *pPaymentData)
{
    char    szTmp[26];
    char    *ptr = lpszQueryString;
    BOOL    bCustIdBlank;

    if ( !GetKeyValue(&ptr, "DID*", szTmp, sizeof(szTmp)) )
        throw new CWEBCLNT_ERR( ERR_PAYMENT_MISSING_DID_KEY );
    if ( !IsNumeric(szTmp) )
        throw new CWEBCLNT_ERR( ERR_PAYMENT_DISTRICT_INVALID );
    pPaymentData->d_id = atoi(szTmp);

    if ( !GetKeyValue(&ptr, "CID*", szTmp, sizeof(szTmp)) )
        throw new CWEBCLNT_ERR( ERR_PAYMENT_MISSING_CID_KEY );
    if ( szTmp[0] == 0 )
    {
        bCustIdBlank = TRUE;
        pPaymentData->c_id = 0;
    }
    else
    {
        // parse customer id and verify that last name was NOT entered
        bCustIdBlank = FALSE;
        if ( !IsNumeric(szTmp) )
            throw new CWEBCLNT_ERR( ERR_PAYMENT_CUSTOMER_INVALID );
    }

    pPaymentData->c_id = atoi(szTmp);

}

if ( !GetKeyValue(&ptr, "CWI*", szTmp, sizeof(szTmp)) )
    throw new CWEBCLNT_ERR( ERR_PAYMENT_MISSING_CWI_KEY );
if ( !IsNumeric(szTmp) )
    throw new CWEBCLNT_ERR( ERR_PAYMENT_CWI_INVALID );
pPaymentData->c_w_id = atoi(szTmp);

if ( !GetKeyValue(&ptr, "CDI*", szTmp, sizeof(szTmp)) )

```

```

        throw new CWBCLNT_ERR( ERR_PAYMENT_MISSING_CDI_KEY );
if ( !IsNumeric(szTmp) )
    throw new CWBCLNT_ERR( ERR_PAYMENT_CDI_INVALID );
pPaymentData->c_d_id = atoi(szTmp);

if ( bCustIdBlank )
{
    // customer id is blank, so last name must be entered
    if ( !GetKeyValue(&ptr, "CLT*", szTmp, sizeof(szTmp)) )
        throw new CWBCLNT_ERR( ERR_PAYMENT_MISSING_CLT_KEY );
    if ( szTmp[0] == 0 )
        throw new CWBCLNT_ERR( ERR_PAYMENT_MISSING_CID_CLT );

    _strupr( szTmp );
    if ( strlen(pPaymentData->c_last) > LAST_NAME_LEN )
        throw new CWBCLNT_ERR( ERR_PAYMENT_LAST_NAME_TOO_LONG );
}

strcpy(pPaymentData->c_last, szTmp);
}
else
{
    // parse customer id and verify that last name was NOT entered
    if ( !GetKeyValue(&ptr, "CLT*", szTmp, sizeof(szTmp)) )
        throw new CWBCLNT_ERR( ERR_PAYMENT_MISSING_CLT_KEY );
    if ( szTmp[0] != 0 )
        throw new CWBCLNT_ERR( ERR_PAYMENT_CID_AND_CLT );
}

if ( !GetKeyValue(&ptr, "HAM*", szTmp, sizeof(szTmp)) )
    throw new CWBCLNT_ERR( ERR_PAYMENT_MISSING_HAM_KEY );
if ( !IsDecimal(szTmp) )
    throw new CWBCLNT_ERR( ERR_PAYMENT_HAM_INVALID );
pPaymentData->h_amount = atof(szTmp);
if ( pPaymentData->h_amount >= 10000.00 || pPaymentData->h_amount < 0 )
    throw new CWBCLNT_ERR( ERR_PAYMENT_HAM_RANGE );
}

/* FUNCTION: GetOrderStatusData
*
* PURPOSE:      This function extracts and validates the payment form data from
an http command string.
*
*/
void GetOrderStatusData(LPSTR lpszQueryString, ORDER_STATUS_DATA *pOrderStatusData)
{
    char    szTmp[26];
    char    *ptr = lpszQueryString;

    if ( !GetKeyValue(&ptr, "DID*", szTmp, sizeof(szTmp)) )
        throw new CWBCLNT_ERR( ERR_ORDERSTATUS_MISSING_DID_KEY );
    if ( !IsNumeric(szTmp) )
        throw new CWBCLNT_ERR( ERR_ORDERSTATUS_DID_INVALID );
    pOrderStatusData->d_id = atoi(szTmp);

    if ( !GetKeyValue(&ptr, "CID*", szTmp, sizeof(szTmp)) )
        throw new CWBCLNT_ERR( ERR_ORDERSTATUS_MISSING_CID_KEY );

    if ( szTmp[0] == 0 )
    {
        // customer id is blank, so last name must be entered
        pOrderStatusData->c_id = 0;
        if ( !GetKeyValue(&ptr, "CLT*", szTmp, sizeof(szTmp)) )
            throw new CWBCLNT_ERR(
ERR_ORDERSTATUS_MISSING_CLT_KEY );

```

```

        if ( szTmp[0] == 0 )
            throw new CWBCLNT_ERR(
ERR_ORDERSTATUS_MISSING_CID_CLT );

        _strupr( szTmp );
        if ( strlen(pOrderStatusData->c_last) > LAST_NAME_LEN )
            throw new CWBCLNT_ERR( ERR_ORDERSTATUS_CLT_RANGE );
        strcpy(pOrderStatusData->c_last, szTmp);
    }
    else
    {
        // parse customer id and verify that last name was NOT entered
        if ( !IsNumeric(szTmp) )
            throw new CWBCLNT_ERR( ERR_ORDERSTATUS_CID_INVALID );
        pOrderStatusData->c_id = atoi(szTmp);
        if ( !GetKeyValue(&ptr, "CLT*", szTmp, sizeof(szTmp)) )
            throw new CWBCLNT_ERR(
ERR_ORDERSTATUS_MISSING_CLT_KEY );
        if ( szTmp[0] != 0 )
            throw new CWBCLNT_ERR( ERR_ORDERSTATUS_CID_AND_CLT );
    }
}

/* FUNCTION: ReadRegistrySettings
*
* PURPOSE:      This function reads the NT registry for startup parameters.
There parameters are
*
*               under the TPCC key.
*
* COMMENTS:     This function also sets up required operation variables to their
default value
*
*               so if registry is not setup the default
values will be used.
*
*/
void ReadRegistrySettings(void)
{
    HKEY    hKey;
    DWORD   size;
    DWORD   type;
    DWORD   dwTmp;
    char    szTmp[256];

    if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE, "SOFTWARE\\Microsoft\\TPCC", 0,
KEY_READ, &hKey) != ERROR_SUCCESS )
        throw new CWBCLNT_ERR( ERR_MISSING_REGISTRY_ENTRIES );
    size = sizeof(szTmp);

    // determine database protocol to use; may be either ODBC or DBLIB
    size = sizeof(szTmp);
    if ( RegQueryValueEx(hKey, "DB_Protocol", 0, &type, (BYTE *)&szTmp, &size)
== ERROR_SUCCESS )
    {
        if ( !strcmp(szTmp, "ODBC") )
            eDB_Protocol = ODBC;
        else if ( !strcmp(szTmp, "DBLIB") )
            eDB_Protocol = DBLIB;
        else
            eDB_Protocol = Unspecified;
    }

    // determine txn monitor to use; may be either TUXEDO, or blank

```



```

        size = sizeof(szTmp);
        if ( RegQueryValueEx(hKey, "TxnMonitor", 0, &type, (BYTE *)&szTmp, &size)
== ERROR_SUCCESS )
        {
            if ( !strcmp(szTmp, "TUXEDO") )
                eTxnMon = TUXEDO;
            else if ( !strcmp(szTmp, "COM") )
                eTxnMon = COM;
            else
                eTxnMon = None;
        }

        size = sizeof(dwTmp);
        if ( ( RegQueryValueEx(hKey, "MaxConnections", 0, &type, (LPBYTE)&dwTmp,
&size) == ERROR_SUCCESS )
            && (type == REG_DWORD) )
            iMaxConnections = dwTmp;

        size = sizeof(dwTmp);
        if ( ( RegQueryValueEx(hKey, "MaxPendingDeliveries", 0, &type,
(LPBYTE)&dwTmp, &size) == ERROR_SUCCESS )
            && (type == REG_DWORD) )
            dwDelBuffSize = min( dwTmp, 10000 ); // min with 10000 as a
sanity constraint

        size = sizeof(dwTmp);
        if ( ( RegQueryValueEx(hKey, "NumberOfDeliveryThreads", 0, &type,
(LPBYTE)&dwTmp, &size) == ERROR_SUCCESS )
            && (type == REG_DWORD) )
            dwNumDeliveryThreads = min( dwTmp, 100 ); // min with 100 as a
sanity constraint

        size = sizeof(szPath);
        if ( RegQueryValueEx(hKey, "Path", 0, &type, (BYTE *)&szPath, &size) !=
ERROR_SUCCESS )
            szPath[0] = 0;

        size = sizeof(szServer);
        if ( RegQueryValueEx(hKey, "DbServer", 0, &type, (BYTE *)&szServer, &size)
!= ERROR_SUCCESS )
            szServer[0] = 0;

        size = sizeof(szDatabase);
        if ( RegQueryValueEx(hKey, "DbName", 0, &type, (BYTE *)&szDatabase, &size)
!= ERROR_SUCCESS )
            szDatabase[0] = 0;

        size = sizeof(szUser);
        if ( RegQueryValueEx(hKey, "DbUser", 0, &type, (BYTE *)&szUser, &size) !=
ERROR_SUCCESS )
            szUser[0] = 0;

        size = sizeof(szPassword);
        if ( RegQueryValueEx(hKey, "DbPassword", 0, &type, (BYTE *)&szPassword,
&size) != ERROR_SUCCESS )
            szPassword[0] = 0;

        RegCloseKey(hKey);
    }

/* FUNCTION: BOOL IsNumeric(char *ptr)
*

```

```

* PURPOSE:          This function determines if a string is numeric. It fails if any
characters other
*                  than numeric and null terminator are present.
*
* ARGUMENTS:       char          *ptr      pointer to string to
check.
*
* RETURNS:         BOOL          FALSE    if string is not all numeric
*                  TRUE         if string
contains only numeric characters i.e. '0' - '9'
*/

BOOL IsNumeric(char *ptr)
{
    if ( *ptr == 0 )
        return FALSE;

    while( *ptr && isdigit(*ptr) )
        ptr++;
    return ( !*ptr );
}

/* FUNCTION: BOOL IsDecimal(char *ptr)
*
* PURPOSE:          This function determines if a string is a non-negative decimal
value.
*                  It fails if any characters other than a series of numbers followed by
a decimal point, another series of numbers, and a null
*                  terminator are present.
*
* ARGUMENTS:       char          *ptr      pointer to string to
check.
*
* RETURNS:         BOOL          FALSE    if string is not a valid non-
negative decimal value
*                  TRUE         if string is
OK
*/

BOOL IsDecimal(char *ptr)
{
    char *dotp;
    BOOL bValid;

    if ( *ptr == 0 )
        return FALSE;

    // find decimal point
    dotp = strchr( ptr, '.' );
    if ( dotp == NULL )
        // no decimal point, so just check for numeric
        return IsNumeric(ptr);
    *dotp = 0; // temporarily replace decimal with a terminator

    if ( *ptr != 0 )
        bValid = IsNumeric(ptr);
    // string starts with decimal point
    else if ( *(dotp+1) == 0 )
        return FALSE; // nothing but a decimal point is bad
    else
        bValid = TRUE;

    if ( *(dotp+1) != 0 )

```

```

        // check text after decimal point
        bValid &= IsNumeric(dotptr+1);

        *dotptr = '.'; // replace decimal point
        return bValid;
}

```

Tpcc.h

```

/* FILE: TPCC.H
 * Microsoft TPC-C Kit Ver. 4.10.000
 * Audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 * PURPOSE: Header file for ISAPI TPCC.DLL, defines structures and functions
used in the isapi tpcc.dll.
 * Copyright Microsoft, 1999
 * All Rights Reserved
 */

//VERSION RESOURCE DEFINES
#define _APS_NEXT_RESOURCE_VALUE 101
#define _APS_NEXT_COMMAND_VALUE 40001
#define _APS_NEXT_CONTROL_VALUE 1000
#define _APS_NEXT_SYMED_VALUE 101

#define TP_MAX_RETRIES 50

//note that the welcome form must be processed first as terminal ids assigned here,
once the
//terminal id is assigned then the forms can be processed in any order.
#define WELCOME_FORM //beginning form no term id assigned, form id 1
#define MAIN_MENU_FORM //term id assigned main menu form id 2
#define NEW_ORDER_FORM //new order form id 3
#define PAYMENT_FORM //payment form id 4
#define DELIVERY_FORM //delivery form id 5
#define ORDER_STATUS_FORM //order status id 6
#define STOCK_LEVEL_FORM //stock level form id 7

//This macro is used to prevent the compiler error unused formal parameter
#define UNUSEDPARAM(x) (x = x)

//This structure defines the data necessary to keep distinct for each terminal or
client connection.
typedef struct _CLIENTDATA
{
    int iNextFree;
    //index of next free element or -1 if this entry in use.
    int w_id;
    //warehouse id assigned at welcome form

```

```

    int d_id;
    //district id assigned at welcome form

    int iSyncId;
    //synchronization id
    int iTickCount;
    //time of last access;

    CTGCC_BASE *pTxn;
} CLIENTDATA, *PCLIENTDATA;

//This structure is used to define the operational interface for terminal id support
typedef struct _TERM
{
    int iNumEntries;
    //total allocated terminal array entries
    int iFreeList;
    //next available terminal array element or -1 if none
    int iMasterSyncId;
    //synchronization id
    CLIENTDATA *pClientData;
    //pointer to allocated client data
} TERM;

typedef TERM *PTERM;
//pointer to terminal structure type

enum WEBERROR
{
    ERR_COMMAND_UNDEFINED = 1,
    ERR_D_ID_INVALID,
    ERR_DELIVERY_CARRIER_ID_RANGE,
    ERR_DELIVERY_CARRIER_INVALID,
    ERR_DELIVERY_MISSING_OCD_KEY,
    ERR_DELIVERY_THREAD_FAILED,
    ERR_GETPROCADDR_FAILED,
    ERR_HTML_ILL_FORMED,
    ERR_INVALID_SYNC_CONNECTION,
    ERR_INVALID_TERMID,
    ERR_LOADDLL_FAILED,
    ERR_MAX_CONNECTIONS_EXCEEDED,
    ERR_MEM_ALLOC_FAILED,
    ERR_MISSING_REGISTRY_ENTRIES,
    ERR_NEWORDER_CUSTOMER_INVALID,
    ERR_NEWORDER_CUSTOMER_KEY,
    ERR_NEWORDER_DISTRICT_INVALID,
    ERR_NEWORDER_FORM_MISSING_DID,
    ERR_NEWORDER_ITEMID_INVALID,
    ERR_NEWORDER_ITEMID_RANGE,
    ERR_NEWORDER_ITEMID_WITHOUT_SUPPW,
    ERR_NEWORDER_MISSING_IID_KEY,
    ERR_NEWORDER_MISSING_QTY_KEY,
    ERR_NEWORDER_MISSING_SUPPW_KEY,
    ERR_NEWORDER_NOITEMS_ENTERED,
    ERR_NEWORDER_QTY_INVALID,
    ERR_NEWORDER_QTY_RANGE,
    ERR_NEWORDER_QTY_WITHOUT_SUPPW,
    ERR_NEWORDER_SUPPW_INVALID,
    ERR_NO_SERVER_SPECIFIED,
    ERR_ORDERSTATUS_CID_AND_CLT,

```

```

ERR_ORDERSTATUS_CID_INVALID,
ERR_ORDERSTATUS_CLT_RANGE,
ERR_ORDERSTATUS_DID_INVALID,
ERR_ORDERSTATUS_MISSING_CID_CLT,
ERR_ORDERSTATUS_MISSING_CID_KEY,
ERR_ORDERSTATUS_MISSING_CLT_KEY,
ERR_ORDERSTATUS_MISSING_DID_KEY,
ERR_PAYMENT_CDI_INVALID,
ERR_PAYMENT_CID_AND_CLT,
ERR_PAYMENT_CUSTOMER_INVALID,
ERR_PAYMENT_CWI_INVALID,
ERR_PAYMENT_DISTRICT_INVALID,
ERR_PAYMENT_HAM_INVALID,
ERR_PAYMENT_HAM_RANGE,
ERR_PAYMENT_LAST_NAME TO LONG,
ERR_PAYMENT_MISSING_CDI_KEY,
ERR_PAYMENT_MISSING_CID_CLT,
ERR_PAYMENT_MISSING_CID_KEY,
ERR_PAYMENT_MISSING_CLT,
ERR_PAYMENT_MISSING_CLT_KEY,
ERR_PAYMENT_MISSING_CWI_KEY,
ERR_PAYMENT_MISSING_DID_KEY,
ERR_PAYMENT_MISSING_HAM_KEY,
ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
ERR_STOCKLEVEL_THRESHOLD_INVALID,
ERR_STOCKLEVEL_THRESHOLD_RANGE,
ERR_VERSION_MISMATCH,
ERR_W_ID_INVALID
};

class CWEBCLNT_ERR : public CBaseErr
{
public:
    CWEBCLNT_ERR(WEBERROR Err)
    {
        m_Error = Err;
        m_szTextDetail = NULL;
        m_SystemErr = 0;
    };

    CWEBCLNT_ERR(WEBERROR Err, char *szTextDetail, DWORD
dwSystemErr)
    {
        m_Error = Err;
        m_szTextDetail = new char[sizeof(szTextDetail)+1];
        strcpy( m_szTextDetail, szTextDetail );
        m_SystemErr = dwSystemErr;
    };

    ~CWEBCLNT_ERR()
    {
        if (m_szTextDetail != NULL)
            delete [] m_szTextDetail;
    };

    WEBERROR m_Error;
    char *m_szTextDetail;
    DWORD m_SystemErr;

    int ErrorType() {return ERR_TYPE_WEBDLL;};
    int ErrorNum() {return m_Error;};
    char *ErrorText();

```

```

};

//These constants have already been defined in engstut.h, but since we do
//not want to include it in the delisrv executable
#define TXN_EVENT_START 2
#define TXN_EVENT_STOP 4
#define TXN_EVENT_WARNING 6 //used to record a warning into
the log

//function prototypes

BOOL APIENTRY DllMain(HANDLE hModule, DWORD ul_reason_for_call, LPVOID lpReserved);
void WriteMessageToEventLog(LPTSTR lpszMsg);
void ProcessQueryString(EXTENSION_CONTROL_BLOCK *pECB, int *pCmd, int *pFormId, int
*pTermId, int *pSyncId);
void WelcomeForm(EXTENSION_CONTROL_BLOCK *pECB, char *szBuffer);
void SubmitCmd(EXTENSION_CONTROL_BLOCK *pECB, char *szBuffer);
void BeginCmd(EXTENSION_CONTROL_BLOCK *pECB, int iFormId, int iTermId);
void ProcessCmd(EXTENSION_CONTROL_BLOCK *pECB, int iFormId, int iTermId);
void StatsCmd(EXTENSION_CONTROL_BLOCK *pECB, char *szBuffer);
void ErrorMessage(EXTENSION_CONTROL_BLOCK *pECB, int iError, int iErrorType, char
*szMsg, int iTermId);
BOOL GetKeyValue(char **pQueryString, char *pKey, char *pValue, int iMax);
void TermInit(void);
void TermDeleteAll(void);
int TermAdd(void);
void TermDelete(int id);
void ErrorForm(EXTENSION_CONTROL_BLOCK *pECB, int iType, int iErrorNum, int iTermId,
int iSyncId, char *szErrorText, char *szBuffer );
void MakeMainMenuForm(int iTermId, int iSyncId, char *szForm);
void MakeStockLevelForm(int iTermId, STOCK_LEVEL_DATA *pStockLevelData, BOOL bInput,
char *szForm);
void MakeNewOrderForm(int iTermId, NEW_ORDER_DATA *pNewOrderData, BOOL bInput, char
*szForm);
void MakePaymentForm(int iTermId, PAYMENT_DATA *pPaymentData, BOOL bInput, char
*szForm);
void MakeOrderStatusForm(int iTermId, ORDER_STATUS_DATA *pOrderStatusData, BOOL
bInput, char *szForm);
void MakeDeliveryForm(int iTermId, DELIVERY_DATA *pDeliveryData, BOOL bInput, char
*szForm);
void ProcessNewOrderForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char
*szBuffer);
void ProcessPaymentForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char *szBuffer);
void ProcessOrderStatusForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char
*szBuffer);
void ProcessDeliveryForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char
*szBuffer);
void ProcessStockLevelForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char
*szBuffer);
void GetNewOrderData(LPSTR lpszQueryString, NEW_ORDER_DATA *pNewOrderData);
void GetPaymentData(LPSTR lpszQueryString, PAYMENT_DATA *pPaymentData);
void GetOrderStatusData(LPSTR lpszQueryString, ORDER_STATUS_DATA *pOrderStatusData);
void ReadRegistrySettings(void);
BOOL PostDeliveryInfo(short w_id, short o_carrier_id);
BOOL IsNumeric(char *ptr);
BOOL IsDecimal(char *ptr);
void DeliveryWorkerThread(void *ptr);

```

Tpcc_com.cpp

```

/* FILE: TPCC_COM.CPP
* Microsoft TPC-C Kit Ver. 4.10.000

```

```

*                               not yet audited
*
*                               Copyright Microsoft, 1999
*
*/

// needed for CoInitializeEx
#define _WIN32_WINNT 0x0400

#include <windows.h>

// need to declare functions for export
#defineDllDecl __declspec( dllexport )

#include "..\..\common\src\trans.h" //tpckit transaction header
contains definitions of structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_com.h"

#include "..\..\components\itpcc_i.c"
#include "..\..\components\tpccneworder\tpccneworder_i.c"
#include "..\..\components\tpccpayment\tpccpayment_i.c"
#include "..\..\components\tpccstocklevel\tpccstocklevel_i.c"
#include "..\..\components\tpccorderstatus\tpccorderstatus_i.c"

// wrapper routine for class constructor
_declspec( dllexport ) CTPCC_COM* CTPCC_COM_new(LPCSTR szServer, LPCSTR szUser,
LPCSTR szPassword, LPCSTR szDatabase)
{
    return new CTPCC_COM(szServer, szUser, szPassword, szDatabase);
}

CTPCC_COM::CTPCC_COM(LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword, LPCSTR
szDatabase)
{
    HRESULT hr = NULL;
    long lRet = 0;

    hr = CoInitializeEx(NULL, COINIT_MULTITHREADED);
    if (FAILED(hr))
    {
        throw new CCOMERR( hr );
    }

    m_pNewOrder          = NULL;
    m_pPayment           = NULL;
    m_pDelivery          = NULL;
    m_pStockLevel        = NULL;
    m_pOrderStatus       = NULL;

    // create components
    hr = CoCreateInstance(CLSID_NewOrder, NULL, CLSCTX_SERVER, IID_ITPCC,
(void **) &m_pNewOrder);
    if (FAILED(hr))
        throw new CCOMERR(hr);

    hr = CoCreateInstance(CLSID_Payment, NULL, CLSCTX_SERVER, IID_ITPCC, (void
**) &m_pPayment);
    if (FAILED(hr))
        throw new CCOMERR(hr);
}

```

```

    hr = CoCreateInstance(CLSID_StockLevel, NULL, CLSCTX_SERVER, IID_ITPCC,
(void **) &m_pStockLevel);
    if (FAILED(hr))
        throw new CCOMERR(hr);

    hr = CoCreateInstance(CLSID_OrderStatus, NULL, CLSCTX_SERVER, IID_ITPCC,
(void **) &m_pOrderStatus);
    if (FAILED(hr))
        throw new CCOMERR(hr);

    // call setcomplete to release each component back into pool
    hr = m_pNewOrder->CallSetComplete();
    if (FAILED(hr))
        throw new CCOMERR(hr);

    hr = m_pPayment->CallSetComplete();
    if (FAILED(hr))
        throw new CCOMERR(hr);

    hr = m_pStockLevel->CallSetComplete();
    if (FAILED(hr))
        throw new CCOMERR(hr);

    hr = m_pOrderStatus->CallSetComplete();
    if (FAILED(hr))
        throw new CCOMERR(hr);
}

CTPCC_COM::~CTPCC_COM()
{
    ReleaseInterface(m_pNewOrder);
    ReleaseInterface(m_pPayment);
    ReleaseInterface(m_pDelivery);
    ReleaseInterface(m_pStockLevel);
    ReleaseInterface(m_pOrderStatus);
    CoUninitialize();
}

void CTPCC_COM::NewOrder()
{
    HRESULT hr;
    COM_DATA* pm_txn = NULL;

    int iSize = sizeof(COM_DATA);

    pm_txn = (COM_DATA*)CoTaskMemAlloc(iSize);
    if (!pm_txn)
    {
        throw new CCOMERR( E_FAIL );
    }

    memcpy(pm_txn, &m_txn, iSize);

    hr = m_pNewOrder->NewOrder(&iSize, (unsigned char**) &pm_txn);

    // copy results back
    memcpy(&m_txn, pm_txn, iSize);

    // free memory
    CoTaskMemFree(pm_txn);

    if (FAILED(hr))
        throw new CCOMERR( hr );
}

```

```

        if ( m_txn.ErrorType != ERR_SUCCESS )
            throw new CCOMERR( m_txn.ErrorType, m_txn.error );
    }

void CTPCC_COM::Payment()
{
    HRESULT hr;
    COM_DATA* pm_txn = NULL;

    int iSize = sizeof(COM_DATA);

    pm_txn = (COM_DATA*)CoTaskMemAlloc(iSize);
    if (!pm_txn)
    {
        throw new CCOMERR( E_FAIL );
    }

    memcpy(pm_txn, &m_txn, iSize);

    hr = m_pPayment->Payment(&iSize, (unsigned char*)&pm_txn);

    // copy results back
    memcpy(&m_txn, pm_txn, iSize);

    // free memory
    CoTaskMemFree(pm_txn);

    if (FAILED(hr))
        throw new CCOMERR( hr );

    if ( m_txn.ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_txn.ErrorType, m_txn.error );
}

void CTPCC_COM::Delivery()
{
    // not supported
    throw new CCOMERR(E_NOTIMPL);
}

void CTPCC_COM::StockLevel()
{
    HRESULT hr;
    COM_DATA* pm_txn = NULL;

    int iSize = sizeof(COM_DATA);

    pm_txn = (COM_DATA*)CoTaskMemAlloc(iSize);
    if (!pm_txn)
    {
        throw new CCOMERR( E_FAIL );
    }

    memcpy(pm_txn, &m_txn, iSize);

    hr = m_pStockLevel->StockLevel(&iSize, (unsigned char*)&pm_txn);

    // copy results back
    memcpy(&m_txn, pm_txn, iSize);

    // free memory
    CoTaskMemFree(pm_txn);
}

```

```

        if (FAILED(hr))
            throw new CCOMERR( hr );

        if ( m_txn.ErrorType != ERR_SUCCESS )
            throw new CCOMERR( m_txn.ErrorType, m_txn.error );
    }

void CTPCC_COM::OrderStatus()
{
    HRESULT hr;
    COM_DATA* pm_txn = NULL;

    int iSize = sizeof(COM_DATA);

    pm_txn = (COM_DATA*)CoTaskMemAlloc(iSize);
    if (!pm_txn)
    {
        throw new CCOMERR( E_FAIL );
    }

    memcpy(pm_txn, &m_txn, iSize);

    hr = m_pOrderStatus->OrderStatus(&iSize, (unsigned char*)&pm_txn);

    // copy results back
    memcpy(&m_txn, pm_txn, iSize);

    // free memory
    CoTaskMemFree(pm_txn);

    if (FAILED(hr))
        throw new CCOMERR( hr );

    if ( m_txn.ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_txn.ErrorType, m_txn.error );
}

```

Tpcc_com.h

```

/* FILE: TPCC_COM.H
 * Microsoft TPC-C Kit Ver. 4.10.000
 * not yet audited
 *
 * PURPOSE: Header file for TPC-C COM+ class implementation.
 * Copyright Microsoft, 1999
 * All Rights Reserved
 */
#pragma once

#include <stdio.h>
#include "..\..\components\itpcc.h"

// need to declare functions for import, unless define has already been created
// by the DLL's .cpp module for export.
#ifdef DllDecl
#define DllDecl __declspec( dllimport )
#endif

class DllDecl CTPCC_COM : public CTPCC_BASE
{
private:

```

```

// COM Interface pointers
ITPCC*          m_pNewOrder;
ITPCC*          m_pPayment;
ITPCC*          m_pDelivery;
ITPCC*          m_pStockLevel;
ITPCC*          m_pOrderStatus;

struct COM_DATA
{
    int ErrorType;
    int error;
    union
    {
        NEW_ORDER_DATA      NewOrder;
        PAYMENT_DATA        Payment;
        DELIVERY_DATA        Delivery;
        STOCK_LEVEL_DATA    StockLevel;
        ORDER_STATUS_DATA   OrderStatus;
    } u;
} m_txn;

public:
CTPCC_COM(LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword,
LPCSTR szDatabase);
~CTPCC_COM(void);

    inline PNEW_ORDER_DATA      BuffAddr_NewOrder()
{ return &m_txn.u.NewOrder; };
    inline PPAYMENT_DATA        BuffAddr_Payment()
{ return &m_txn.u.Payment; };
    inline PDELIVERY_DATA       BuffAddr_Delivery()
{ return &m_txn.u.Delivery; };
    inline PSTOCK_LEVEL_DATA     BuffAddr_StockLevel()
return &m_txn.u.StockLevel; };
    inline PORDER_STATUS_DATA   BuffAddr_OrderStatus()
return &m_txn.u.OrderStatus; };

    void NewOrder      ();
    void Payment       ();
    void Delivery      ();
    void StockLevel    ();
    void OrderStatus   ();
};

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

class CCOMERR : public CBaseErr
{
private:
    char m_szErrorText[64];

public:

```

```

// use this interface for genuine COM errors
CCOMERR( HRESULT hr )
{
    m_hr = hr;
    m_iErrorType = 0;
    m_iError = 0;
}

// use this interface to impersonate a non-COM error type
CCOMERR( int iErrorType, int iError )
{
    m_iErrorType = iErrorType;
    m_iError = iError;
    m_hr = S_OK;
}

int          m_hr;
int          m_iErrorType;
int          m_iError;

// A CCOMERR class can impersonate another class, which happens
// was not actually a COM Services error, but was simply
// transmitted back via COM.
int ErrorType()
{
    if (m_iErrorType == 0)
        return ERR_TYPE_COM;
    else
        return m_iErrorType;
}

int ErrorNum() {return m_hr;}

char *ErrorText()
{
    if (m_hr == S_OK)
        sprintf( m_szErrorText, "Error: Class %d,
error # %d", m_iErrorType, m_iError );
    else
        sprintf( m_szErrorText, "Error: COM HRESULT
%x", m_hr );
    return m_szErrorText;
}

};

// wrapper routine for class constructor
extern "C" __declspec(dllexport) CTPCC_COM* CTPCC_COM_new(LPCSTR, LPCSTR, LPCSTR,
LPCSTR);

typedef CTPCC_COM* (TYPE_CTPCC_COM)(LPCSTR, LPCSTR, LPCSTR, LPCSTR);

Tpcc_dblib.cpp
/*      FILE:          tpcc_dblib.cpp
*
*      Microsoft TPC-C Kit Ver. 4.10.000
*      Audited by Richard Gimarc, Performance
Metrics, 3/17/99
*
*      Copyright Microsoft, 1999
*
*      PURPOSE:  Implements dblib calls for TPC-C txns.
*      Authors:  Charles Levine (clevine@microsoft.com)

```

```

*/

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

#define DBNTWIN32
#include <sqlfront.h>
#include <sqlldb.h>

#ifdef ICECAP
#include <icapexp.h>
#endif

// need to declare functions for export
#define DllDecl __declspec( dllexport )

#include "..\..\common\src\error.h"
#include "..\..\common\src\trans.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_dblib.h"

#define DEFCLPACKSIZE 4096

// version string; must match return value from tpcc_version stored proc
const char sVersion[] = "4.10.000";

const iMaxRetries = 10; // how many retries on
deadlock
static long iConnectionCount = 0; // number of current dblib connections

BOOL WINAPI DllMain(HANDLE hModule, DWORD ul_reason_for_call, LPVOID lpReserved)
{
    switch( ul_reason_for_call )
    {
        case DLL_PROCESS_ATTACH:
            DisableThreadLibraryCalls(hModule);
            dbinit(); // initialize dblib
            break;

        case DLL_PROCESS_DETACH:
            dbexit(); // close all dblib
            // close all dblib
            break;

        default:
            /* nothing */;
    }
    return TRUE;
}

int err_handler(DBPROCESS *dbproc, int severity, int dberr, int oserr, LPCSTR
dberrstr, LPCSTR oserrstr)
{
    CTPCC_DBLIB *pConn;

    assert(dbproc != NULL);
    pConn = (CTPCC_DBLIB*)dbgetuserdata(dbproc);

    if (pConn != NULL)
    {

```

```

        pConn->SetDbLibError( severity, dberr, oserr, dberrstr, oserrstr
    );
    }
    return INT_CANCEL;
}

/* FUNCTION: int msg_handler(DBPROCESS *dbproc, DBINT msgno, int msgstate, int
severity, char *msgtext)
*
* PURPOSE: This function handles DB-Library SQL Server error messages
*
* ARGUMENTS: DBPROCESS *dbproc DBPROCESS id
pointer DBINT msgno
message number int
msgstate message state int
severity message severity int
char *msgtext
printable message description
*
* RETURNS: int INT_CONTINUE
continue if error is SQLETIME else INT_CANCEL action
INT_CANCEL cancel operation
*
* COMMENTS: This function also sets the dead lock dbproc variable if
necessary.
*/

// typedef INT (SQLAPI *DEMGS_HANDLE_PROC)(PDBPROCESS, DBINT, INT, INT, LPCSTR,
LPCSTR, LPCSTR, DBUSMALLINT);

int msg_handler(DBPROCESS *dbproc, DBINT msgno, int msgstate, int severity,
LPCSTR msgtext, LPCSTR srvname, LPCSTR
procname, DBUSMALLINT line)
{
    CTPCC_DBLIB *pConn;

    assert(dbproc != NULL);
    pConn = (CTPCC_DBLIB*)dbgetuserdata(dbproc);

    if (pConn != NULL)
    {
        pConn->SetSqlError( msgno, msgstate, severity, msgtext );
    }

    return 0;
}

/* FUNCTION: void UtilStrCpy(char * pDest, char * pSrc, int n)
*
* PURPOSE: This function copies n characters from string pSrc to pDst and
places a
* null character at the end of the destination string.
*
* ARGUMENTS: char *pDest destination string
pointer char *pSrc
source string pointer

```

```

*          int          n
*          number of characters to copy
* RETURNS:      None
* COMMENTS:     Unlike strncpy this function ensures that the result string is
*              always null terminated.
*/

inline static void UtilStrCpy(char * pDest, BYTE * pSrc, int n)
{
    strncpy(pDest, (char *)pSrc, n);
    pDest[n] = '\0';

    return;
}

/* FUNCTION: CTPCC_DBLIB_ERR::ErrorText
*
*/

char* CTPCC_DBLIB_ERR::ErrorText(void)
{
    int i;

    static SERRORMSG errorMsgs[] =
    {
        { ERR_WRONG_SP_VERSION,          "Wrong version of stored
procs on database server" },
        { ERR_INVALID_CUST,             "Invalid Customer
id,name." },
        { ERR_NO_SUCH_ORDER,            "No orders found for
customer." },
        { 0,                             }, ""
    };

};

static char szNotFound[] = "Unknown error number.";

for(i=0; errorMsgs[i].szMsg[0]; i++)
{
    if ( m_errno == errorMsgs[i].iError )
        break;
}
if ( !errorMsgs[i].szMsg[0] )
    return szNotFound;
else
    return errorMsgs[i].szMsg;
}

// wrapper routine for class constructor
_declspec(dllexport) CTPCC_DBLIB* CTPCC_DBLIB_new(
    LPCSTR szServer,          // name of SQL server
    LPCSTR szUser,            // user name for login
    LPCSTR szPassword,        // password for login
    LPCSTR szHost,            // workstation name; shows up in
sp_who; max 30 chars, only first 10 kept by SQL Server
    LPCSTR szDatabase )      // name of database to use
{
    return new CTPCC_DBLIB( szServer, szUser, szPassword, szHost, szDatabase
);
}

```

```

}

CTPCC_DBLIB::CTPCC_DBLIB (
    LPCSTR szServer,          // name of SQL server
    LPCSTR szUser,            // user name for login
    LPCSTR szPassword,        // password for login
    LPCSTR szHost,            // workstation name; shows up in
sp_who; max 30 chars, only first 10 kept by SQL Server
    LPCSTR szDatabase )      // name of database to use
{
    LOGINREC *login;
    BYTE *pData;

    // initialization
    m_dbproc = NULL;
    m_DbLibErr = (CDBLIBERR*)NULL;
    m_SqlErr = (CSQLERR*)NULL;

    m_MaxRetries = 10;        // how many retries on deadlock

    // increase max number of connections if getting close
    if ( dbgetmaxprocs() < (iConnectionCount+5) )
    {
        if ( dbsetmaxprocs(iConnectionCount+10) == FAIL )
            ThrowError(CDBLIBERR::eDbSetMaxProcs);
    }

    // allocate a login structure
    login = dblogin();
    if (login == NULL)
        ThrowError(CDBLIBERR::eLogin);
    InterlockedIncrement( &iConnectionCount );

    // register error and message handler functions
    if (dbprocerrhandle(login, err_handler) == NULL)
        ThrowError(CDBLIBERR::eDbProcHandler);

    if (dbprocmshandle(login, msg_handler) == NULL)
        ThrowError(CDBLIBERR::eDbProcHandler);

    DBSETLUSER(login, szUser);
    DBSETLPWD(login, szPassword);
    DBSETLHOST(login, szHost);
    DBSETLPACKET(login, (unsigned short)DEFCLPACKSIZE);
    DBSETLVERSION(login, DBVER60); // use dblib ver 6.0
client behavior

    // set time to wait for login
    if (dbsetlogintime(60) == FAIL)
        ThrowError(CDBLIBERR::eDbSet);

    // set time to wait for statement execution
    if (dbsettime(180) == FAIL)
        ThrowError(CDBLIBERR::eDbSet);

    m_dbproc = dbopen(login, szServer);

    // deallocate login structure before checking for success
    dbfreelogin( login );

    if (m_dbproc == NULL)

```



```

        ThrowError(CDBLIBERR::eDbOpen);

// save address of class instance so that the message and error handler
// can get to data.
dbsetuserdata(m_dbproc, (LPVOID)this);

// Use the the right database
if (dbuse(m_dbproc, szDatabase) == FAIL)
    ThrowError(CDBLIBERR::eDbUse);

dbcmd(m_dbproc, "set nocount on ");                // do not
return row counts
dbcmd(m_dbproc, "set XACT_ABORT ON");              // rollback transaction
on abort

if (dbsqlxexec(m_dbproc) == FAIL)
    ThrowError(CDBLIBERR::eDbSqlExec);

DiscardNextResults(2);

// verify that version of stored procs on server is correct
dbrpcinit(m_dbproc, "tpcc_version", 0);

if (dbrpcexec(m_dbproc) == FAIL)
    ThrowError(CDBLIBERR::eDbRpcExec);

if (dbresults(m_dbproc) != SUCCEED)
    ThrowError(CDBLIBERR::eDbResults);

if (dbnextrow(m_dbproc) != REG_ROW)
    ThrowError(CDBLIBERR::eDbNextRow);

char szSrvVersion[16];
pData=dbdata(m_dbproc, 1);
if (pData)
    UtilStrCpy(szSrvVersion, pData, dbdatlen(m_dbproc, 1));
else
    szSrvVersion[0]=0;
if (strcmp(szSrvVersion,sVersion))
    throw new CTPCC_DBLIB_ERR( CTPCC_DBLIB_ERR::ERR_WRONG_SP_VERSION
);

DiscardNextRows(0);
DiscardNextResults(0);
}

CTPCC_DBLIB::~CTPCC_DBLIB( void )
{
    // close db connection and deallocate resources
    dbclose(m_dbproc);
    InterlockedDecrement( &iConnectionCount );
    if (m_DbLibErr != NULL)
        delete m_DbLibErr;
    if (m_SqlErr != NULL)
        delete m_SqlErr;
}

void CTPCC_DBLIB::SetDbLibError(int severity, int dberr, int oserr, LPCSTR dberrstr,
LPCSTR oserrstr)
{
    delete m_DbLibErr;

```

```

    m_DbLibErr = new CDBLIBERR(CDBLIBERR::eUnknown, severity, dberr, oserr);

    if (dberrstr != NULL)
    {
        m_DbLibErr->m_dberrstr = new char[ strlen(dberrstr)+1 ];
        strcpy( m_DbLibErr->m_dberrstr, dberrstr );
    }

    if (oserrstr != NULL)
    {
        m_DbLibErr->m_oserrstr = new char[ strlen(oserrstr)+1 ];
        strcpy( m_DbLibErr->m_oserrstr, oserrstr );
    }
}

void CTPCC_DBLIB::SetSqlError( int /*DBINT*/ msgno, int msgstate, int severity,
LPCSTR msgtext )
{
    if (m_SqlErr == NULL)
        m_SqlErr = new CSQLERR();

    m_SqlErr->m_msgno = msgno;
    m_SqlErr->m_msgstate = msgstate;
    m_SqlErr->m_severity = severity;

    delete [] m_SqlErr->m_msgtext;
    if (msgtext != NULL)
    {
        m_SqlErr->m_msgtext = new char[ strlen(msgtext)+1 ];
        strcpy( m_SqlErr->m_msgtext, msgtext );
    }
}

void CTPCC_DBLIB::ThrowError( CDBLIBERR::ACTION eAction )
{
    // discard anything still in return buffer
    DiscardNextRows(-1);
    DiscardNextResults(-1);

    // check for SQL Server error first; if yes, throw it and ignore any
    DBLib error.
    if (m_SqlErr != NULL)
    {
        CSQLERR *pSqlErr;
        pSqlErr = m_SqlErr;
        m_SqlErr = NULL; // clear our pointer to instance; catch
        handler will delete
        throw pSqlErr;
    }

    CDBLIBERR *pDbLibErr;
    if (m_DbLibErr == NULL)
        // this case isn't expected to happen, since it means that an
        error was returned
        // but the error handlers were not called.
        pDbLibErr = new CDBLIBERR(eAction);

    else
    {
        pDbLibErr = m_DbLibErr;
        pDbLibErr->m_eAction = eAction;
        m_DbLibErr = NULL; // clear our pointer to instance;
        catch handler will delete
    }
}

```

```

    }
    throw pDbLibErr;
}

// Read and discard rows until no more. Throw an exception if number of rows read
// doesn't
// match number of rows expected. The row count will be ignored if the expected
// count value
// passed in is negative. A typical use of this routine is to verify that there are
// no more
// rows to be read.
void CTPCC_DBLIB::DiscardNextRows(int iExpectedCount)
{
    int          iRowsRead = 0;
    RETCODE     rc;

    while (TRUE)
    {
        rc = dbnextrow(m_dbproc);
        if (rc == NO_MORE_ROWS)
            break;
        if (rc == FAIL)
        {
            if (iExpectedCount >= 0)
                ThrowError(CDBLIBERR::eDbNextRow);
            else
                break;
        }
        iRowsRead++;
    }

    if ((iExpectedCount >= 0) &&
        (iExpectedCount != iRowsRead))
        ThrowError(CDBLIBERR::eWrongRowCount);
}

// Read and discard results until no more. Throw an exception if number of result
// sets read doesn't
// match number expected. The result set count will be ignored if the expected
// count value
// passed in is negative. A typical use of this routine is to verify that there are
// no more
// result sets to be read.
void CTPCC_DBLIB::DiscardNextResults(int iExpectedCount)
{
    int          iResultsRead = 0;
    RETCODE     rc;

    while (TRUE)
    {
        rc = dbresults(m_dbproc);
        if (rc == NO_MORE_RESULTS)
            break;
        if (rc == FAIL)
        {
            if (iExpectedCount >= 0)
                ThrowError(CDBLIBERR::eDbResults);
            else
                break;
        }

        DiscardNextRows(-1);
    }
}

```

```

        iResultsRead++;
    }

    if ((iExpectedCount >= 0) &&
        (iExpectedCount != iResultsRead))
        ThrowError(CDBLIBERR::eWrongRowCount);
}

void CTPCC_DBLIB::StockLevel()
{
    int          iTryCount = 0;
    BYTE        *pData;

    ResetError();

    while (TRUE)
    {
        try
        {
            dbrpcinit(m_dbproc, "tpcc_stocklevel", 0);

            dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1, -1, (BYTE
*) &m_txn.StockLevel.w_id); // @w_id smallint
            dbrpcparam(m_dbproc, NULL, 0, SQLINT1, -1, -1, (BYTE
*) &m_txn.StockLevel.d_id); // @d_id tinyint
            dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1, -1, (BYTE
*) &m_txn.StockLevel.threshold); // @threshold smallint

            if (dbrpcexec(m_dbproc) == FAIL)
                ThrowError(CDBLIBERR::eDbRpcExec);

            if (dbresults(m_dbproc) != SUCCEED)
                ThrowError(CDBLIBERR::eDbResults);

            if (dbnextrow(m_dbproc) != REG_ROW)
                ThrowError(CDBLIBERR::eDbNextRow);

            if (pData=dbdata(m_dbproc, 1))
                m_txn.StockLevel.low_stock = *((long *)
pData);

            DiscardNextRows(0);
            DiscardNextResults(0);

            m_txn.StockLevel.exec_status_code = eOK;
            return;
        }
        catch (CSQLERR *e)
        {
            if ((e->m_msgno != 1205) || (++iTryCount >
iMaxRetries))
                throw;

            // hit deadlock; backoff for increasingly longer
            period
                Sleep(10 * iTryCount);
        }
    } // while (TRUE)

}

void CTPCC_DBLIB::NewOrder()
{
}

```

```

int          i;
DBINT       commit_flag;
DBDATEIME   datetime;
DBDATETIME  daterec;

int          iTryCount = 0;
BYTE        *pData;

ResetError();

while (TRUE)
{
    try
    {
        dbrpcinit(m_dbproc, "tpcc_neworder", 0);
        dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1, -1, (BYTE
*) &m_txn.NewOrder.w_id);
        dbrpcparam(m_dbproc, NULL, 0, SQLINT1, -1, -1, (BYTE
*) &m_txn.NewOrder.d_id);
        dbrpcparam(m_dbproc, NULL, 0, SQLINT4, -1, -1, (BYTE
*) &m_txn.NewOrder.c_id);
        dbrpcparam(m_dbproc, NULL, 0, SQLINT1, -1, -1, (BYTE
*) &m_txn.NewOrder.o_ol_cnt);

        // check whether any order lines are for a remote
        warehouse
        m_txn.NewOrder.o_all_local = 1;
        for (i = 0; i < m_txn.NewOrder.o_ol_cnt; i++)
        {
            if (m_txn.NewOrder.OL[i].ol_supply_w_id !=
m_txn.NewOrder.w_id)
            {
                m_txn.NewOrder.o_all_local = 0;
                break;
            }
        }
        dbrpcparam(m_dbproc, NULL, 0, SQLINT1, -1, -1, (BYTE
*) &m_txn.NewOrder.o_all_local);

        for (i = 0; i < m_txn.NewOrder.o_ol_cnt; i++)
        {
            dbrpcparam(m_dbproc, NULL, 0, SQLINT4, -1, -
1, (BYTE *) &m_txn.NewOrder.OL[i].ol_i_id);
            dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1, -
1, (BYTE *) &m_txn.NewOrder.OL[i].ol_supply_w_id);
            dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1, -
1, (BYTE *) &m_txn.NewOrder.OL[i].ol_quantity);
        }

        if (dbrpcexec(m_dbproc) == FAIL)
            ThrowError(CDBLIBERR::eDbRpcExec);

        // Get order line results
        m_txn.NewOrder.total_amount = 0;
        for (i = 0; i < m_txn.NewOrder.o_ol_cnt; i++)
        {
            if (dbresults(m_dbproc) != SUCCEED)
                ThrowError(CDBLIBERR::eDbResults);

            if (dbnumcols(m_dbproc) != 5)

```

```

            ThrowError(CDBLIBERR::eWrongNumCols);

            if (dbnextrow(m_dbproc) != REG_ROW)
                ThrowError(CDBLIBERR::eDbNextRow);

            if (pData=dbdata(m_dbproc, 1))

                UtilStrCpy(m_txn.NewOrder.OL[i].ol_i_name, pData, dbdatlen(m_dbproc, 1));
            if (pData=dbdata(m_dbproc, 2))
                m_txn.NewOrder.OL[i].ol_stock =
                (* (DBSMALLINT *) pData);
            if (pData=dbdata(m_dbproc, 3))

                UtilStrCpy(m_txn.NewOrder.OL[i].ol_brand_generic, pData,
dbdatlen(m_dbproc, 3));
            if (pData=dbdata(m_dbproc, 4))
                dbconvert(m_dbproc, SQLNUMERIC,
pData, dbdatlen(m_dbproc,4),
SQLFLT8, (BYTE
*) &m_txn.NewOrder.OL[i].ol_i_price, 8);
            if (pData=dbdata(m_dbproc, 5))
                dbconvert(m_dbproc, SQLNUMERIC,
pData, dbdatlen(m_dbproc,5),
SQLFLT8, (BYTE
*) &m_txn.NewOrder.OL[i].ol_amount, 8);

            m_txn.NewOrder.total_amount =
m_txn.NewOrder.total_amount + m_txn.NewOrder.OL[i].ol_amount;

            DiscardNextRows(0);
        }

        // get remaining values for w_tax, d_tax, o_id,
c_last, c_discount, c_credit, o_entry_d, commit_flag
        if (dbresults(m_dbproc) != SUCCEED)
            ThrowError(CDBLIBERR::eDbResults);

        if (dbnextrow(m_dbproc) != REG_ROW)
            ThrowError(CDBLIBERR::eDbNextRow);

        if (dbnumcols(m_dbproc) != 8)
            ThrowError(CDBLIBERR::eWrongNumCols);

        if (pData=dbdata(m_dbproc, 1))

            dbconvert(m_dbproc, SQLNUMERIC, pData,
dbdatlen(m_dbproc,1), SQLFLT8, (BYTE *) &m_txn.NewOrder.w_tax, 8);
            if (pData=dbdata(m_dbproc, 2))

                dbconvert(m_dbproc, SQLNUMERIC, pData,
dbdatlen(m_dbproc,2), SQLFLT8, (BYTE *) &m_txn.NewOrder.d_tax, 8);
            if (pData=dbdata(m_dbproc, 3))
                m_txn.NewOrder.o_id = (* (DBINT *) pData);
            if (pData=dbdata(m_dbproc, 4))
                UtilStrCpy(m_txn.NewOrder.c_last, pData,
dbdatlen(m_dbproc, 4));
            if (pData=dbdata(m_dbproc, 5))
                dbconvert(m_dbproc, SQLNUMERIC, pData,
dbdatlen(m_dbproc,5), SQLFLT8, (BYTE *) &m_txn.NewOrder.c_discount, 8);

```

```

        if (pData=dbdata(m_dbproc, 6))
            UtilStrCpy(m_txn.NewOrder.c_credit, pData,
dbdatlen(m_dbproc, 6));
        if (pData=dbdata(m_dbproc, 7))
        {
            datetime = *((DBDATETIME *) pData);
            dbdatecrack(m_dbproc, &daterec, &datetime);
            m_txn.NewOrder.o_entry_d.year =
daterec.year;
            m_txn.NewOrder.o_entry_d.month =
daterec.month;
            m_txn.NewOrder.o_entry_d.day =
daterec.day;
            m_txn.NewOrder.o_entry_d.hour =
daterec.hour;
            m_txn.NewOrder.o_entry_d.minute =
daterec.minute;
            m_txn.NewOrder.o_entry_d.second =
daterec.second;
        }
        if (pData=dbdata(m_dbproc, 8))
            commit_flag = (*(DBTINYINT *) pData);

        DiscardNextRows(0);
        DiscardNextResults(0);

        if (commit_flag == 1)
        {
            m_txn.NewOrder.total_amount *= ((1 +
m_txn.NewOrder.w_tax + m_txn.NewOrder.d_tax) * (1 - m_txn.NewOrder.c_discount));
            m_txn.NewOrder.exec_status_code = eOK;
        }
        else
            m_txn.NewOrder.exec_status_code =
eInvalidItem;

        return;
    }
    catch (CSQLERR *e)
    {
        if ((e->msgno != 1205) || (++iTryCount >
iMaxRetries))
            throw;

        // hit deadlock; backoff for increasingly longer
        period
            Sleep(10 * iTryCount);
    }
    // while (TRUE)
}

void CTPCC_DBLIB::Payment()
{
    DBDATETIME    datetime;
    DBDATERECEC  daterec;

    int            iTryCount = 0;
    BYTE          *pData;

    ResetError();

```

```

        while (TRUE)
        {
            try
            {
                dbrpcinit(m_dbproc, "tpcc_payment", 0);
                dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1, -1, (BYTE
*) &m_txn.Payment.w_id);
                dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1, -1, (BYTE
*) &m_txn.Payment.c_w_id);
                dbrpcparam(m_dbproc, NULL, 0, SQLFLT8, -1, -1, (BYTE
*) &m_txn.Payment.h_amount);
                dbrpcparam(m_dbproc, NULL, 0, SQLINT1, -1, -1, (BYTE
*) &m_txn.Payment.d_id);
                dbrpcparam(m_dbproc, NULL, 0, SQLINT1, -1, -1, (BYTE
*) &m_txn.Payment.c_d_id);
                dbrpcparam(m_dbproc, NULL, 0, SQLINT4, -1, -1, (BYTE
*) &m_txn.Payment.c_id);

                // if customer id is zero, then payment is by name
                if (m_txn.Payment.c_id == 0)
                    dbrpcparam(m_dbproc, NULL, 0, SQLCHAR, -1,
strlen(m_txn.Payment.c_last), (unsigned char *)m_txn.Payment.c_last);

                if (dbrpcexec(m_dbproc) == FAIL)
                    ThrowError(CDBLIBERR::eDbRpcExec);

                if (dbresults(m_dbproc) != SUCCEEDED)
                    ThrowError(CDBLIBERR::eDbResults);

                if (dbnextrow(m_dbproc) != REG_ROW)
                    ThrowError(CDBLIBERR::eDbNextRow);

                if (dbnumcols(m_dbproc) != 27)
                    ThrowError(CDBLIBERR::eWrongNumCols);

                if (pData=dbdata(m_dbproc, 1))
                    m_txn.Payment.c_id = *((DBINT *) pData);
                if (pData=dbdata(m_dbproc, 2))
                    UtilStrCpy(m_txn.Payment.c_last, pData,
dbdatlen(m_dbproc, 2));

                if (pData=dbdata(m_dbproc, 3))
                {
                    datetime = *((DBDATETIME *) pData);
                    dbdatecrack(m_dbproc, &daterec, &datetime);
                    m_txn.Payment.h_date.year = daterec.year;
                    m_txn.Payment.h_date.month = daterec.month;
                    m_txn.Payment.h_date.day = daterec.day;
                    m_txn.Payment.h_date.hour = daterec.hour;
                    m_txn.Payment.h_date.minute =
                    m_txn.Payment.h_date.second =
                }
            }
            if (pData=dbdata(m_dbproc, 4))
                UtilStrCpy(m_txn.Payment.w_street_1, pData,
dbdatlen(m_dbproc, 4));
            if (pData=dbdata(m_dbproc, 5))
                UtilStrCpy(m_txn.Payment.w_street_2, pData,
dbdatlen(m_dbproc, 5));
            if (pData=dbdata(m_dbproc, 6))
                UtilStrCpy(m_txn.Payment.w_city, pData,
dbdatlen(m_dbproc, 6));

```

```

        if (pData=dbdata(m_dbproc, 7))
            UtilStrCpy(m_txn.Payment.w_state, pData,
dbdatlen(m_dbproc, 7));
        if (pData=dbdata(m_dbproc, 8))
            UtilStrCpy(m_txn.Payment.w_zip, pData,
dbdatlen(m_dbproc, 8));
        if (pData=dbdata(m_dbproc, 9))
            UtilStrCpy(m_txn.Payment.d_street_1, pData,
dbdatlen(m_dbproc, 9));
        if (pData=dbdata(m_dbproc, 10))
            UtilStrCpy(m_txn.Payment.d_street_2, pData,
dbdatlen(m_dbproc, 10));
        if (pData=dbdata(m_dbproc, 11))
            UtilStrCpy(m_txn.Payment.d_city, pData,
dbdatlen(m_dbproc, 11));
        if (pData=dbdata(m_dbproc, 12))
            UtilStrCpy(m_txn.Payment.d_state, pData,
dbdatlen(m_dbproc, 12));
        if (pData=dbdata(m_dbproc, 13))
            UtilStrCpy(m_txn.Payment.d_zip, pData,
dbdatlen(m_dbproc, 13));
        if (pData=dbdata(m_dbproc, 14))
            UtilStrCpy(m_txn.Payment.c_first, pData,
dbdatlen(m_dbproc, 14));
        if (pData=dbdata(m_dbproc, 15))
            UtilStrCpy(m_txn.Payment.c_middle, pData,
dbdatlen(m_dbproc, 15));
        if (pData=dbdata(m_dbproc, 16))
            UtilStrCpy(m_txn.Payment.c_street_1, pData,
dbdatlen(m_dbproc, 16));
        if (pData=dbdata(m_dbproc, 17))
            UtilStrCpy(m_txn.Payment.c_street_2, pData,
dbdatlen(m_dbproc, 17));
        if (pData=dbdata(m_dbproc, 18))
            UtilStrCpy(m_txn.Payment.c_city, pData,
dbdatlen(m_dbproc, 18));
        if (pData=dbdata(m_dbproc, 19))
            UtilStrCpy(m_txn.Payment.c_state, pData,
dbdatlen(m_dbproc, 19));
        if (pData=dbdata(m_dbproc, 20))
            UtilStrCpy(m_txn.Payment.c_zip, pData,
dbdatlen(m_dbproc, 20));
        if (pData=dbdata(m_dbproc, 21))
            UtilStrCpy(m_txn.Payment.c_phone, pData,
dbdatlen(m_dbproc, 21));
        if (pData=dbdata(m_dbproc, 22))
        {
            datetime = *((DBDATETIME *) pData);
            dbdatecrack(m_dbproc, &daterec, &datetime);
            m_txn.Payment.c_since.year = daterec.year;
            m_txn.Payment.c_since.month =
daterec.month;
            m_txn.Payment.c_since.day = daterec.day;
            m_txn.Payment.c_since.hour = daterec.hour;
            m_txn.Payment.c_since.minute =
daterec.minute;
            m_txn.Payment.c_since.second =
daterec.second;
        }
        if (pData=dbdata(m_dbproc, 23))
            UtilStrCpy(m_txn.Payment.c_credit, pData,
dbdatlen(m_dbproc, 23));
        if (pData=dbdata(m_dbproc, 24))

```

```

            dbconvert(m_dbproc, SQLNUMERIC, pData,
dbdatlen(m_dbproc,24), SQLFLT8, (BYTE *)&m_txn.Payment.c_credit_lim, 8);
            if (pData=dbdata(m_dbproc, 25))
                dbconvert(m_dbproc, SQLNUMERIC, pData,
dbdatlen(m_dbproc,25), SQLFLT8, (BYTE *)&m_txn.Payment.c_discount, 8);
            if (pData=dbdata(m_dbproc, 26))
                dbconvert(m_dbproc, SQLNUMERIC, pData,
dbdatlen(m_dbproc,26), SQLFLT8, (BYTE *)&m_txn.Payment.c_balance, 8);
            if (pData=dbdata(m_dbproc, 27))
                UtilStrCpy(m_txn.Payment.c_data, pData,
dbdatlen(m_dbproc, 27));
        DiscardNextRows(0);
        DiscardNextResults(0);
        if (m_txn.Payment.c_id == 0)
            throw new CTPCC_DBLIB_ERR(
CTPCC_DBLIB_ERR::ERR_INVALID_CUST );
        else
            m_txn.Payment.exec_status_code = eOK;
        return;
    } catch (CSQLERR *e)
    {
        if ((e->m_msgno != 1205) || (++iTryCount >
iMaxRetries))
            throw;
        // hit deadlock; backoff for increasingly longer
        // period
        Sleep(10 * iTryCount);
    } // while (TRUE)
}

void CTPCC_DBLIB::OrderStatus()
{
    int i;
    DBDATETIME datetime;
    DBDATEREC daterec;

    int rc;
    RETCODE rc;
    BYTE *pData;

    ResetError();

    while (TRUE)
    {
        try
        {
            dbrpcinit(m_dbproc, "tpcc_orderstatus", 0);
            dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1, -1, (BYTE
*) &m_txn.OrderStatus.w_id);
            dbrpcparam(m_dbproc, NULL, 0, SQLINT1, -1, -1, (BYTE
*) &m_txn.OrderStatus.d_id);
            dbrpcparam(m_dbproc, NULL, 0, SQLINT4, -1, -1, (BYTE
*) &m_txn.OrderStatus.c_id);

```

```

// if customer id is zero, then order status is by
name
    if (m_txn.OrderStatus.c_id == 0)
        dbrpcparam(m_dbproc, NULL, 0, SQLCHAR, -1,
strlen(m_txn.OrderStatus.c_last), (unsigned char *)m_txn.OrderStatus.c_last);

    if (dbrpcexec(m_dbproc) == FAIL)
        ThrowError(CDBLIBERR::eDbRpcExec);

// Get order lines
if (dbresults(m_dbproc) != SUCCEED)
{
    if ((m_DbLibErr == NULL) && (m_SqlErr ==
NULL))
        throw new CTPCC_DBLIB_ERR(
CTPCC_DBLIB_ERR::ERR_NO_SUCH_ORDER );
    else
        ThrowError(CDBLIBERR::eDbResults);
}

if (dbnumcols(m_dbproc) != 5)
    ThrowError(CDBLIBERR::eWrongNumCols);

i = 0;
while (TRUE)
{
    rc = dbnextrow(m_dbproc);
    if (rc == NO_MORE_ROWS)
        break;
    if (rc != REG_ROW)
        ThrowError(CDBLIBERR::eDbNextRow);

    if (pData=dbdata(m_dbproc, 1))
        m_txn.OrderStatus.OL[i].ol_supply_w_id = (*(DBSMALLINT *) pData);
    if (pData=dbdata(m_dbproc, 2))
        m_txn.OrderStatus.OL[i].ol_i_id =
        (*(DBINT *) pData);
    if (pData=dbdata(m_dbproc, 3))
        m_txn.OrderStatus.OL[i].ol_quantity = (*(DBSMALLINT *) pData);
    if (pData=dbdata(m_dbproc, 4))
        dbconvert(m_dbproc, SQLNUMERIC,
pData, dbdatlen(m_dbproc,4),
        SQLFLT8,
        (BYTE *)&m_txn.OrderStatus.OL[i].ol_amount, 8);
    if (pData=dbdata(m_dbproc, 5))
    {
        datetime = *((DBDATETIME *)
pData);
        dbdatecrack(m_dbproc, &daterec,
&datetime);

        m_txn.OrderStatus.OL[i].ol_delivery_d.year = daterec.year;
        m_txn.OrderStatus.OL[i].ol_delivery_d.month = daterec.month;
        m_txn.OrderStatus.OL[i].ol_delivery_d.day = daterec.day;
        m_txn.OrderStatus.OL[i].ol_delivery_d.hour = daterec.hour;
    }
}

```

```

m_txn.OrderStatus.OL[i].ol_delivery_d.minute = daterec.minute;
m_txn.OrderStatus.OL[i].ol_delivery_d.second = daterec.second;
    }
    i++;
}
m_txn.OrderStatus.o_ol_cnt = i;

if (dbresults(m_dbproc) != SUCCEED)
    ThrowError(CDBLIBERR::eDbResults);

if (dbnextrow(m_dbproc) != REG_ROW)
    ThrowError(CDBLIBERR::eDbNextRow);

if (dbnumcols(m_dbproc) != 8)
    ThrowError(CDBLIBERR::eWrongNumCols);

if (pData=dbdata(m_dbproc, 1))
    m_txn.OrderStatus.c_id = (*(DBINT *) pData);
if (pData=dbdata(m_dbproc, 2))
    UtilStrCpy(m_txn.OrderStatus.c_last, pData,
dbdatlen(m_dbproc,2));
if (pData=dbdata(m_dbproc, 3))
    UtilStrCpy(m_txn.OrderStatus.c_first, pData,
dbdatlen(m_dbproc,3));
if (pData=dbdata(m_dbproc, 4))
    UtilStrCpy(m_txn.OrderStatus.c_middle,
pData, dbdatlen(m_dbproc, 4));
if (pData=dbdata(m_dbproc, 5))
{
    datetime = *((DBDATETIME *) pData);
    dbdatecrack(m_dbproc, &daterec, &datetime);
    m_txn.OrderStatus.o_entry_d.year =
    m_txn.OrderStatus.o_entry_d.month =
    m_txn.OrderStatus.o_entry_d.day =
    m_txn.OrderStatus.o_entry_d.hour =
    m_txn.OrderStatus.o_entry_d.minute =
    m_txn.OrderStatus.o_entry_d.second =
}
if (pData=dbdata(m_dbproc, 6))
    m_txn.OrderStatus.o_carrier_id =
        (*(DBSMALLINT *) pData);
if (pData=dbdata(m_dbproc, 7))
    dbconvert(m_dbproc, SQLNUMERIC, pData,
dbdatlen(m_dbproc,7),
        SQLFLT8, (BYTE
*)&m_txn.OrderStatus.c_balance, 8);
if (pData=dbdata(m_dbproc, 8))
    m_txn.OrderStatus.o_id = (*(DBINT *) pData);

DiscardNextRows(0);
DiscardNextResults(0);

if (m_txn.OrderStatus.o_ol_cnt == 0)

```

```

        throw new CTPCC_DBLIB_ERR(
CTPCC_DBLIB_ERR::ERR_NO_SUCH_ORDER );
    else if (m_txn.OrderStatus.c_id == 0 &&
m_txn.OrderStatus.c_last[0] == 0)
        throw new CTPCC_DBLIB_ERR(
CTPCC_DBLIB_ERR::ERR_INVALID_CUST );
    else
        m_txn.OrderStatus.exec_status_code = eOK;

        return;
    }
    catch (CSQLERR *e)
    {
        if ((e->m_msgno != 1205) || (++iTryCount >
iMaxRetries))
            throw;

        // hit deadlock; backoff for increasingly longer
        period
            Sleep(10 * iTryCount);
    }
    // while (TRUE)
}

void CTPCC_DBLIB::Delivery()
{
    int         i;
    int         iTryCount = 0;
    BYTE        *pData;

    ResetError();

    while (TRUE)
    {
        try
        {
            dbrpcinit(m_dbproc, "tpcc_delivery", 0);

            dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1, -1, (BYTE
*) &m_txn.Delivery.w_id);
            dbrpcparam(m_dbproc, NULL, 0, SQLINT1, -1, -1, (BYTE
*) &m_txn.Delivery.o_carrier_id);

            if (dbrpcexec(m_dbproc) == FAIL)
                ThrowError(CDBLIBERR::eDbRpcExec);

            if (dbresults(m_dbproc) != SUCCEED)
                ThrowError(CDBLIBERR::eDbResults);

            if (dbnextrow(m_dbproc) != REG_ROW)
                ThrowError(CDBLIBERR::eDbNextRow);

            if (dbnumcols(m_dbproc) != 10)
                ThrowError(CDBLIBERR::eWrongNumCols);

            for (i=0; i<10; i++)
            {
                if (pData = dbdata(m_dbproc, i+1))
                    m_txn.Delivery.o_id[i] = *((DBINT
*)pData);
            }
        }
    }
}

```

```

        DiscardNextRows(0);
        DiscardNextResults(0);

        m_txn.Delivery.exec_status_code = eOK;
        return;
    }
    catch (CSQLERR *e)
    {
        if ((e->m_msgno != 1205) || (++iTryCount >
iMaxRetries))
            throw;

        // hit deadlock; backoff for increasingly longer
        period
            Sleep(10 * iTryCount);
    }
    // while (TRUE)
}

void CTPCC_DBLIB::ResetError()
{
    if (m_DbLibErr != NULL)
    {
        delete m_DbLibErr;
        m_DbLibErr = (CDBLIBERR*)NULL;
    }

    if (m_SqlErr != NULL)
    {
        delete m_SqlErr;
        m_SqlErr = (CSQLERR*)NULL;
    }

    return;
}

```

Tpcc_dblib.h

```

/* FILE: TPCC_DBLIB.H
 * Microsoft TPC-C Kit Ver. 4.10.000
 * Audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 * PURPOSE: Header file for TPC-C txn class implementation.
 * Copyright Microsoft, 1999
 * All Rights Reserved
 */
#pragma once

#ifndef PDBPROCESS
#define DBPROCESS void // dbprocess structure type
typedef DBPROCESS * PDBPROCESS;
#endif

// need to declare functions for import, unless define has already been created
// by the DLL's .cpp module for export.
#ifndef DllDecl
#define DllDecl __declspec( dllimport )
#endif

class CSQLERR : public CBaseErr
{
public:

```

```

CSQLERR(void)
{
    m_msgno = 0;
    m_msgstate = 0;
    m_severity = 0;
    m_msgtext = NULL;
};

~CSQLERR()
{
    delete [] m_msgtext;
};

int          m_msgno;
int          m_msgstate;
int          m_severity;
char        *m_msgtext;

int ErrorType() {return ERR_TYPE_SQL;};
int ErrorNum() {return m_msgno;};
char *ErrorText() {return m_msgtext;};

};

class CDBLIBERR : public CBaseErr
{
public:
    enum ACTION
    {
        eNone,
        eUnknown,
        eLogin, // error from
        eDbOpen, // error from dbopen
        eDbUse, // error from
        eDbSqlExec, // error from
        eDbSet, // error from
        eDbNextRow, // error from
        eWrongRowCount, // more or less rows
        eWrongNumCols, // more or less columns
        eDbResults, // error from
        eDbRpcExec, // error from
        eDbSetMaxProcs, // error from
        eDbProcHandler // error from either
    };
    CDBLIBERR(ACTION eAction, int severity = 0, int dberror = 0, int
oserr = 0)
    {
        m_eAction = eAction;
        m_severity = severity;
        m_dberror = dberror;
    };
};

```

```

        m_oserr = oserr;

        m_dberrstr = NULL;
        m_oserrstr = NULL;
};

~CDBLIBERR()
{
    delete [] m_dberrstr;
    delete [] m_oserrstr;
};

ACTION      m_eAction;
int          m_severity;
int          m_dberror;
int          m_oserr;
char        *m_dberrstr;
char        *m_oserrstr;

int ErrorType() {return ERR_TYPE_DBLIB;};
int ErrorNum() {return m_dberror;};
char *ErrorText() {return m_dberrstr;};

};

class CTPCC_DBLIB_ERR : public CBaseErr
{
public:
    enum CTPCC_DBLIB_ERRS
    {
        ERR_WRONG_SP_VERSION = 1, // "Wrong version of
stored procs on database server"
        ERR_INVALID_CUST, // "Invalid
Customer id,name."
        ERR_NO_SUCH_ORDER // "No orders
found for customer."
    };
    CTPCC_DBLIB_ERR( int iErr ) { m_erno = iErr; };

    int          m_erno;

    int ErrorType() {return ERR_TYPE_TPCC_DBLIB;};
    int ErrorNum() {return m_erno;};

    char *ErrorText();
};

class DllDecl CTPCC_DBLIB : public CTPCC_BASE
{
private:
    // declare variables and private functions here...
    PDBPROCESS      m_dbproc;
    CDBLIBERR *m_DbLibErr; // not allocated until
needed (maybe never)
    CSQLERR          *m_SqlErr; //
not allocated until needed (maybe never)
    int              m_MaxRetries; //
retry count on deadlock

    void DiscardNextRows(int iExpectedCount);
    void DiscardNextResults(int iExpectedCount);
    void ThrowError( CDBLIBERR::ACTION eAction );
};

```



```

void ResetError();

union
{
    NEW_ORDER_DATA          NewOrder;
    PAYMENT_DATA            Payment;
    DELIVERY_DATA           Delivery;
    STOCK_LEVEL_DATA        StockLevel;
    ORDER_STATUS_DATA       OrderStatus;
    m_txn;
}

public:
    CTPCC_DBLIB(LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword,
LPCSTR szHost, LPCSTR szDatabase );
    ~CTPCC_DBLIB(void);

    inline PNEW_ORDER_DATA          BuffAddr_NewOrder()
    { return &m_txn.NewOrder; };
    inline PPAYMENT_DATA            BuffAddr_Payment()
    { return &m_txn.Payment; };
    inline PDELIVERY_DATA           BuffAddr_Delivery()
    { return &m_txn.Delivery; };
    inline PSTOCK_LEVEL_DATA        BuffAddr_StockLevel()
    { return &m_txn.StockLevel; };
    inline PORDER_STATUS_DATA       BuffAddr_OrderStatus()
    { return &m_txn.OrderStatus; };

    void NewOrder          ();
    void Payment           ();
    void Delivery          ();
    void StockLevel        ();
    void OrderStatus      ();

    // these are public because they must be called from the dblink
err_handler and msg_handler
    // outside of the class
void SetDbLibError(int severity, int dberr, int oserr, LPCSTR
dberrstr, LPCSTR oserrstr);
void SetSqlError( int msgno, int msgstate, int severity, LPCSTR
msgtext );
};

extern "C" DllDecl CTPCC_DBLIB* CTPCC_DBLIB_new
( LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword, LPCSTR szHost, LPCSTR
szDatabase );

typedef CTPCC_DBLIB* (TYPE_CTPCC_DBLIB)(LPCSTR, LPCSTR, LPCSTR, LPCSTR);

```

```

Error.h
/* FILE: ERROR.H
 * Microsoft TPC-C Kit Ver. 4.10.000
 * Audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 * PURPOSE: Header file for error exception classes.
 * Copyright Microsoft, 1999
 * All Rights Reserved
 */
#pragma once

```

```

#ifndef _INC_STRING
#include <string.h>
#endif

const int m_szMsg_size = 512;
const int m_szApp_size = 64;
const int m_szLoc_size = 64;

//error message structure used in ErrorText routines
typedef struct _SERRORMSG
{
    int iError; //error id of
    message char szMsg[256]; //message to sent to
    browser } SERRORMSG;

#define ERR_FATAL_LEVEL 1
#define ERR_WARNING_LEVEL 2
#define ERR_INFORMATION_LEVEL 3

#define ERR_TYPE_LOGIC -1 //logic error in program; internal error
#define ERR_SUCCESS 0 //success (a non-error error)
#define ERR_BAD_ITEM_ID 1 //expected abort record in txnRecord
#define ERR_TYPE_DELIVERY_POST 2 //expected delivery post failed
#define ERR_TYPE_WEBDLL 3 //tpcc web generated error
#define ERR_TYPE_SQL 4 //sql server generated error
#define ERR_TYPE_DBLIB 5 //dblib generated error
#define ERR_TYPE_ODBC 6 //odbc generated error
#define ERR_TYPE_SOCKET 7 //error on communication socket client rte only
#define ERR_TYPE_DEADLOCK 8 //dblib and odbc only deadlock condition
#define ERR_TYPE_COM 9 //error from COM call
#define ERR_TYPE_TUXEDO 10 //tuxedo error
#define ERR_TYPE_OS 11 //operating system error
#define ERR_TYPE_MEMORY 12 //memory allocation error
#define ERR_TYPE_TPCC_ODBC 13 //error from tpcc odbc txn module
#define ERR_TYPE_TPCC_DBLIB 14 //error from tpcc dblib txn module
#define ERR_TYPE_DELISRV 15 //delivery server error
#define ERR_TYPE_TXNLOG 16 //txn log error
#define ERR_TYPE_BCCONN 17 //Benchcraft connection class
#define ERR_TYPE_TPCC_CONN 18 //Benchcraft connection class

```

```

class CBaseErr
{
public:
    char      *m_szApp;
    char      *m_szMsg;
    char      *m_szLoc; // code location where the error occurred
    int       m_idMsg;

    CBaseErr(void)
    {
        m_idMsg      = 0;
        m_szMsg      = new char[m_szMsg_size];
        m_szApp      = new char[m_szApp_size];
        m_szLoc      = NULL;

        m_szMsg[0]   = 0;
        m_szApp[0]   = 0;

        GetModuleFileName(GetModuleHandle(NULL), m_szApp, m_szApp_size);
    }

    ~CBaseErr(void)
    {
        if (m_szMsg) delete [] m_szMsg;
        if (m_szApp) delete [] m_szApp;
        if (m_szLoc) delete [] m_szLoc;
    };

    CBaseErr(int idMsg)
    {
        m_idMsg      = idMsg;
        m_szApp      = new char[m_szApp_size];
        m_szMsg      = new char[m_szMsg_size];
        m_szLoc      = NULL;

        GetModuleFileName(GetModuleHandle(NULL), m_szApp, m_szApp_size);
        LoadString(GetModuleHandle(NULL), idMsg, m_szMsg, m_szMsg_size);
    }

    CBaseErr(LPCTSTR szMsg)
    {
        m_idMsg      = 0;
        m_szApp      = new char[m_szApp_size];
        m_szMsg      = new char[m_szMsg_size];
        m_szLoc      = NULL;

        GetModuleFileName(GetModuleHandle(NULL), m_szApp, m_szApp_size);
        strcpy(m_szMsg, szMsg);
    }

    void SetError(char *szMsg, LPCTSTR szLocation)
    {
        if (szMsg != NULL)
            strcpy(m_szMsg, szMsg);
        else
            m_szMsg[0] = 0;

        if (szLocation != NULL)

```

```

        {
            delete [] m_szLoc;
            m_szLoc = new char[strlen(szLocation)+1];
            strcpy(m_szLoc, szLocation);
        }
        else
        {
            delete [] m_szLoc;
            m_szLoc = NULL;
        }
    }

    virtual void Draw(HWND hwnd, LPCTSTR szStr = NULL)
    {
        int      j;
        char      szTmp[512];

        if (szStr)
            j = sprintf(szTmp, "%s\n", szStr);
        if (m_szLoc)
            j += sprintf(szTmp+j, "Location=%s\n", m_szLoc);
        if (m_szMsg)
            j += sprintf(szTmp+j, "%s\n", m_szMsg);

        ::MessageBox(hwnd, szTmp, m_szApp, MB_OK);
    }

    char *GetApp(void) { return m_szApp; }
    char *GetMsg(void) { return m_szMsg; }
    char *GetLocation(void) { return m_szLoc; }

    virtual int ErrorType() = 0; // a value which distinguishes the kind of
    error that occurred
    virtual int ErrorNum() = 0; // an error value specific to the
    error type
    virtual char *ErrorText() = 0; // a string (i.e., human readable)
    representation of the error
};

class CSocketErr : public CBaseErr
{
public:
    enum Action
    {
        eNone,
        eSend,
        eSocket,
        eConnect
    };

    CSocketErr(Action eAction, LPCTSTR szLocation);
    CSocketErr(int iError) { m_errId = iError; };
    int      m_errId;
    Action   m_eAction;

    int ErrorType() { return ERR_TYPE_SOCKET; };
    int ErrorNum() { return m_errId; };
    char *ErrorText(void);
};

class CSystemErr : public CBaseErr
{

```

```

public:
    enum Action
    {
        eNone,
        eTransactNamedPipe,
        eWaitNamedPipe,
        eSetNamedPipeHandleState,
        eCreateFile,
        eCreateProcess,
        eCallNamedPipe,
        eCreateEvent,
        eCreateThread,
        eVirtualAlloc,
        eReadFile,
        eWriteFile,
        eMapViewOfFile,
        eCreateFileMapping,
        eInitializeSecurityDescriptor,
        eSetSecurityDescriptorDacl,
        eCreateNamedPipe,
        eConnectNamedPipe,
    };

    CSystemErr(Action eAction, LPCTSTR szLocation);

    void Draw(HWND hwnd, LPCTSTR szStr = NULL);

    int          m_errId;
    Action       m_eAction;

    int ErrorType() { return ERR_TYPE_OS;}
    int ErrorNum() { return m_errId;}
    char *ErrorText() { return "";} // TODO: need to code

error text
};

class CMemoryErr : public CBaseErr
{
public:
    CMemoryErr(void);

    int ErrorType() { return ERR_TYPE_MEMORY;}
    int ErrorNum() { return 0;}
    char *ErrorText() { return "";} // TODO: need to code

error text
};

```

Trans.h

```

/* FILE: TRANS.H
 * Microsoft TPC-C Kit Ver. 4.10.000
 * Audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 * PURPOSE: Header file for TPC-C structure templates.
 * Copyright Microsoft, 1999
 * All Rights Reserved
 */
#pragma once

// 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 DATETIME_LEN 30
#define CREDIT_LEN 2
#define C_DATA_LEN 250
#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

// TIMESTAMP_STRUCT is provided by the ODBC header file sqltypes.h, but is not
// available
// when compiling with dblib, so redefined here. Note: we are using the symbol
// "SQLTYPES"
// (declared in sqltypes.h) as a way to determine if TIMESTAMP_STRUCT has been
// declared.
#ifndef __SQLTYPES
typedef struct
{
    year;
    short /* SQLSMALLINT */
    unsigned short /* SQLUSMALLINT */ month;
    unsigned short /* SQLUSMALLINT */ day;
    unsigned short /* SQLUSMALLINT */ hour;
    unsigned short /* SQLUSMALLINT */ minute;
    unsigned short /* SQLUSMALLINT */ second;
    unsigned long /* SQLINTEGER */ fraction;
} TIMESTAMP_STRUCT;
#endif

// possible values for exec_status_code after transaction completes
enum EXEC_STATUS
{
    eOK, // 0 "Transaction committed."
    eInvalidItem, // 1 "Item number is not valid."
    eDeliveryFailed, // 2 "Delivery Post Failed."
};

enum DBPROTOCOL { Unspecified, ODBC, DBLIB };
enum TXNMON { None, TUXEDO, COM };

// transaction structures
typedef struct
{
    // input params

```

```

short          ol_supply_w_id;
long          ol_i_id;
short        ol_quantity;

// output params
char          ol_i_name[I_NAME_LEN+1];
char          ol_brand_generic[BRAND_LEN+1];
double       ol_i_price;
double       ol_amount;
short        ol_stock;
} OL_NEW_ORDER_DATA;

typedef struct
{
    // input params
    short      w_id;
    short      d_id;
    long       c_id;
    short      o_ol_cnt;

    // output params
    EXEC_STATUS exec_status_code;
    char        c_last[LAST_NAME_LEN+1];
    char        c_credit[CREDIT_LEN+1];
    double      c_discount;
    double      w_tax;
    double      d_tax;
    long        o_id;
    short       o_commit_flag;
    TIMESTAMP_STRUCT o_entry_d;
    short       o_all_local;
    double      total_amount;
    OL_NEW_ORDER_DATA OL[MAX_OL_NEW_ORDER_ITEMS];
} NEW_ORDER_DATA, *PNEW_ORDER_DATA;

typedef struct
{
    // input params
    short      w_id;
    short      d_id;
    long       c_id;
    short      c_d_id;
    short      c_w_id;
    double     h_amount;
    char       c_last[LAST_NAME_LEN+1];

    // output params
    EXEC_STATUS exec_status_code;
    TIMESTAMP_STRUCT h_date;
    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];
    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];
    char         c_first[FIRST_NAME_LEN+1];
    char         c_middle[MIDDLE_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];
TIMESTAMP_STRUCT c_since;
char          c_credit[CREDIT_LEN+1];
double        c_credit_lim;
double        c_discount;
double        c_balance;
char          c_data[200+1];
} PAYMENT_DATA, *PPAYMENT_DATA;

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

typedef struct
{
    // input params
    short      w_id;
    short      d_id;
    long       c_id;
    char       c_last[LAST_NAME_LEN+1];

    // output params
    EXEC_STATUS exec_status_code;
    char        c_first[FIRST_NAME_LEN+1];
    char        c_middle[MIDDLE_NAME_LEN+1];
    double      c_balance;
    long        o_id;
    TIMESTAMP_STRUCT o_entry_d;
    short       o_carrier_id;
    OL_ORDER_STATUS_DATA OL[MAX_OL_ORDER_STATUS_ITEMS];
    short       o_ol_cnt;
} ORDER_STATUS_DATA, *PORDER_STATUS_DATA;

typedef struct
{
    // input params
    short      w_id;
    short      o_carrier_id;

    // output params
    EXEC_STATUS exec_status_code;
    SYSTEMTIME  queue_time;
    long        o_id[10]; // id's of
    delivered orders for districts 1 to 10
} DELIVERY_DATA, *PDELIVERY_DATA;

//This structure is used for posting delivery transactions and for writing them to
the delivery server.
typedef struct _DELIVERY_TRANSACTION
{
    SYSTEMTIME  queue; //time delivery
    transaction queued
    short      w_id; //delivery warehouse
    short      o_carrier_id; //carrier id
} DELIVERY_TRANSACTION;

typedef struct

```

```

{
    // input params
    short          w_id;
    short          d_id;
    short          threshold;

    // output params
    EXEC_STATUS    exec_status_code;
    long           low_stock;
} STOCK_LEVEL_DATA, *PSTOCK_LEVEL_DATA;

```

Txn_base.h

```

/* FILE: TXN_BASE.H
 * Microsoft TPC-C Kit Ver. 4.10.000
 * Audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 * PURPOSE: Header file for TPC-C txn class implementation.
 * Copyright Microsoft, 1999
 * All Rights Reserved
 */

#pragma once

// need to declare functions for import, unless define has already been created
// by the DLL's .cpp module for export.
#ifndef DllDecl
#define DllDecl __declspec( dllimport )
#endif

class DllDecl CTPCC_BASE
{
public:
    CTPCC_BASE(void) {};
    virtual ~CTPCC_BASE(void) {};

    virtual PNEW_ORDER_DATA          BuffAddr_NewOrder()
= 0;
    virtual PPAYMENT_DATA            BuffAddr_Payment()
= 0;
    virtual PDELIVERY_DATA           BuffAddr_Delivery()
= 0;
    virtual PSTOCK_LEVEL_DATA         BuffAddr_StockLevel() = 0;
    virtual PORDER_STATUS_DATA       BuffAddr_OrderStatus() = 0;

    virtual void NewOrder              () = 0;
    virtual void Payment               () = 0;
    virtual void Delivery              () = 0;
    virtual void StockLevel            () = 0;
    virtual void OrderStatus           () = 0;
};

```

Common.h

```

/* FILE: common.h
 *
 * Microsoft TPC-C Kit Ver. 4.10.000
 * Copyright Microsoft, 1999
 */

```

```

static void WriteMessageToEventLog(LPTSTR lpszMsg)
{
    TCHAR          szMsg[256];
    HANDLE          hEventSource;
    LPTSTR          lpszStrings[2];

    // Use event logging to log the error.
    //
    hEventSource = RegisterEventSource(NULL, TEXT("TPCCComponent"));

    _stprintf(szMsg, TEXT("Error in COM+ TPCC Component: "));
    lpszStrings[0] = szMsg;
    lpszStrings[1] = lpszMsg;

    if (hEventSource != NULL)
    {
        ReportEvent(hEventSource, // handle of event source
            EVENTLOG_ERROR_TYPE, // event type
            0, // event category
            0, // event ID
            NULL, // current user's SID
            2, // strings in lpszStrings
            0, // no bytes of raw data
            (LPCWSTR *)lpszStrings, // array of error strings
            NULL); // no raw data

        (VOID) DeregisterEventSource(hEventSource);
    }
}

DBPROTOCOL ReadRegistrySettings()
{
    HKEY          hKey;
    DWORD          size;
    DWORD          type;
    char          szTmp[256];

    DBPROTOCOL eDB_Protocol;

    if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE, "SOFTWARE\\Microsoft\\TPCC", 0,
KEY_READ, &hKey) != ERROR_SUCCESS )
        return Unspecified;
    size = sizeof(szTmp);

    // determine database protocol to use; may be either ODBC or DBLIB
    size = sizeof(szTmp);
    if ( RegQueryValueEx(hKey, "DB_Protocol", 0, &type, (BYTE *)&szTmp, &size)
== ERROR_SUCCESS )
    {
        if ( !strcmp(szTmp, "ODBC") )
            eDB_Protocol = ODBC;
        else if ( !strcmp(szTmp, "DBLIB") )
            eDB_Protocol = DBLIB;
        else
            eDB_Protocol = Unspecified;
    }

    RegCloseKey(hKey);

    return eDB_Protocol;
}

```

```

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

```

NewOrder.cpp

```

/*      FILE:          NewOrder.CPP
 *
 *          Microsoft TPC-C Kit Ver. 4.10.000
 *          Copyright Microsoft, 1999
 */

#include "stdafx.h"
#include "TPCCNewOrder.h"
#include "NewOrder.h"

#include <transact.h>
#include <stdio.h>

#include "..\ITPCCps\itpcc_i.c"
#include "..\common.h"

////////////////////////////////////
// CNewOrder

CNewOrder::CNewOrder()
{
    m_pTxn = NULL;
    m_bCanBePooled = TRUE;
}

CNewOrder::~CNewOrder()
{
    if (m_pTxn)
        delete m_pTxn;
}

HRESULT CNewOrder::NewOrder(int* iSize, UCHAR **txn)
{
    IObjectContext* pObjectContext = NULL;
    HRESULT hr;
    PNEW_ORDER_DATA    pNewOrder;
    COM_DATA            *pData;
    int                 iNOSize;

    try
    {
        pData = (COM_DATA*)*txn;
        iNOSize = sizeof(NEW_ORDER_DATA);

        // get our object context
        hr = CoGetObjectContext( IID_IObjectContext, (void
**)&pObjectContext );
        if (FAILED(hr)) return hr;

```

```

        pNewOrder = m_pTxn->BuffAddr_NewOrder();

        memcpy(pNewOrder, &pData->u.NewOrder, iNOSize);
        m_pTxn->NewOrder();
        memcpy( &pData->u.NewOrder, pNewOrder, iNOSize);

        pData->retval = ERR_SUCCESS;
        pData->error = 0;

        // all went well
        pObjectContext->SetComplete();
        ReleaseInterface(pObjectContext);
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        // failed
        pObjectContext->SetAbort();
        ReleaseInterface(pObjectContext);
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        // failed
        pObjectContext->SetAbort();
        ReleaseInterface(pObjectContext);
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

HRESULT CNewOrder::Payment(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT CNewOrder::Delivery(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT CNewOrder::StockLevel(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT CNewOrder::OrderStatus(int* iSize, UCHAR** txn)
{
    // not implemented

```

```

        return E_NOTIMPL;
    }

HRESULT CNewOrder::CallSetComplete()
{
    IObjectContext* pObjectContext = NULL;
    HRESULT hr;

    // get our object context
    hr = CoGetObjectContext( IID_IObjectContext, (void **)&pObjectContext );

    pObjectContext->SetComplete();
    ReleaseInterface(pObjectContext);

    return hr;
}

int CNewOrder::SetDBConnectStrings(LPCSTR szServer, LPCSTR szUser, LPCSTR
szPassword, LPCSTR szDatabase)
{
    DBPROTOCOL eDB_Protocol;
    try
    {
        {
            eDB_Protocol = ReadRegistrySettings();
            if (eDB_Protocol == Unspecified)
            {
                WriteMessageToEventLog(TEXT("Component failed to read
registry settings.));
                return 1;
            }

            switch (eDB_Protocol)
            {
            case ODBC:
                m_pTxn = new CTPCC_ODBC( szServer, szUser, szPassword,
"", szDatabase );
                if (!m_pTxn) {
                    WriteMessageToEventLog(TEXT("Component could
not create ODBC class: out of memory.));
                    return 1;
                }
                break;

            case DBLIB:
                m_pTxn = new CTPCC_DBLIB( szServer, szUser,
szPassword, "", szDatabase );
                if (!m_pTxn) {
                    WriteMessageToEventLog(TEXT("Component could
not create DBLib class: out of memory.));
                    return 1;
                }
                break;
            }
        }
    }
    catch (CBaseErr *e)
    {
        WriteMessageToEventLog(e->ErrorText());
        delete e;
        m_bCanBePooled = FALSE;
        return 1;
    }
}

```

```

    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled exception.));
        m_bCanBePooled = FALSE;
        return 1;
    }

    // all went well
    return 0;
}

STDMETHODIMP_(BOOL) CNewOrder::CanBePooled()
{
    return m_bCanBePooled;
}

STDMETHODIMP CNewOrder::Activate()
{
    // we don't support COM Services transactions (no enlistment)
    return S_OK;
}

//
// called by the ctor activator
// the construct string should look like "SERVER=server;DATABASE=tpcc;UID=sa;PWD="
//
STDMETHODIMP CNewOrder::Construct(IDispatch * pUnk)
{
    if (!pUnk)
        return E_UNEXPECTED;

    HRESULT hr;
    IObjectConstructString * pString = NULL;
    WCHAR wsztemp[128];
    WCHAR *p;
    CHAR szServer[32] = { 0 };
    CHAR szUser[32] = "sa";
    CHAR szPassword[32] = { 0 };
    CHAR szDatabase[32] = "tpcc";

    int i;
    try {
        hr = pUnk->QueryInterface(IID_IObjectConstructString, (void
**)&pString);

        if (pString) {
            // CComBSTR destructor frees string when out of scope
            CComBSTR bsConstructString;
            pString->get_ConstructString(&bsConstructString);
            p = wcsstr(bsConstructString.m_str, L"SERVER=");
            if (p) {
                p += 7; // skip 'SERVER='
                for (i = 0; *p != ';' && *p != '\\0'; i++,
                wsztemp[i] = *p;
            }
        }
    }
}

```

```

                wsztemp[i] = '\0';
                wcstombs(szServer, wsztemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"UID=");
            if (p) {
                p += 4; // skip 'UID='
                for (i = 0; *p != ';' && *p != '\0'; i++,
p++) {
                    wsztemp[i] = *p;
                }
                wsztemp[i] = '\0';
                wcstombs(szUser, wsztemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"PWD=");
            if (p) {
                p += 4; // skip 'PWD='
                for (i = 0; *p != ';' && *p != '\0'; i++,
p++) {
                    wsztemp[i] = *p;
                }
                wsztemp[i] = '\0';
                wcstombs(szPassword, wsztemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"DATABASE=");
            if (p) {
                p += 9; // skip 'DATABASE='
                for (i = 0; *p != ';' && *p != '\0'; i++,
p++) {
                    wsztemp[i] = *p;
                }
                wsztemp[i] = '\0';
                wcstombs(szDatabase, wsztemp, 32);
            }

            pString->Release();

            if (SetDBConnectStrings(szServer, szUser, szPassword,
szDatabase))
            {
                return E_FAIL;
            }
        }

        catch (CBaseErr *e) {
            WriteMessageToEventLog(e->ErrorText());
            delete e;
            return E_FAIL;
        }
        catch (...) {
            WriteMessageToEventLog(TEXT("Unhandled exception in object
::Construct"));
            return E_FAIL;
        }

        return hr;
    }
}

```

NewOrder.h

```

// NewOrder.h : Declaration of the CNewOrder

#ifndef __NEWORDER_H_
#define __NEWORDER_H_

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

#include "resource.h" // main symbols
#include <comsvcs.h>
#include "..\ITPCCps\itpcc.h"
#include "..\..\common\src\trans.h" //tpckit transaction header
contains definitions of structures specific to TPC-C
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\error.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h" // DBLIB implementation
of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h" // ODBC implementation
of TPC-C txns

////////////////////////////////////
// CNewOrder
class ATL_NO_VTABLE CNewOrder :
public CComObjectRootEx<CComSingleThreadModel>,
public CComCoClass<CNewOrder, &CLSID_NewOrder>,
public ITPCC,
public IObjectControl,
public IObjectConstruct
{
public:
    CNewOrder();
    ~CNewOrder();

DECLARE_REGISTRY_RESOURCEID(IDR_NEWORDER)

BEGIN_COM_MAP(CNewOrder)
    COM_INTERFACE_ENTRY(ITPCC)
    COM_INTERFACE_ENTRY(IObjectControl)
    COM_INTERFACE_ENTRY(IObjectConstruct)
END_COM_MAP()

// ITPCC
public:
    HRESULT __stdcall NewOrder(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall Payment(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall Delivery(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall StockLevel(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall OrderStatus(
        int* iSize,
        UCHAR** txn);
}

```



```

        HRESULT __stdcall CallSetComplete();

// IObjectControl
STDMETHODIMP_(BOOL) CanBePooled();

        STDMETHODIMP Activate();

        STDMETHODIMP_(void) Deactivate()
        {
            // nothing to do
        }

// IObjectConstruct
STDMETHODIMP Construct(IDispatch * pUnk);

// helper methods
private:
        BOOL m_bCanBePooled;

        CTPCC_BASE *m_pTxn;

        int SetDBConnectStrings(LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword,
        LPCSTR szDatabase);

        struct COM_DATA
        {
            int retval;
            int error;
            union
            {
                NEW_ORDER_DATA          NewOrder;
                PAYMENT_DATA              Payment;
                DELIVERY_DATA             Delivery;
                STOCK_LEVEL_DATA          StockLevel;
                ORDER_STATUS_DATA         OrderStatus;
            } u;
        };

};

#endif // __NEWORDER_H_

```

TPCCNewOrder.cpp

```

// TPCCNewOrder.cpp : Implementation of DLL Exports.

// Note: Proxy/Stub Information
//       To build a separate proxy/stub DLL,
//       run nmake -f TPCCNewOrderps.mk in the project directory.

#include "stdafx.h"
#include "resource.h"
#include "TPCCNewOrder.h"

#include "TPCCNewOrder_i.c"
#include "NewOrder.h"

CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)

```

```

        OBJECT_ENTRY(CLSID_NewOrder, CNewOrder)
END_OBJECT_MAP()

// DLL Entry Point

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInstance, DWORD dwReason, LPVOID /*lpReserved*/)
{
    if (dwReason == DLL_PROCESS_ATTACH)
    {
        _Module.Init(ObjectMap, hInstance);
        DisableThreadLibraryCalls(hInstance);
    }
    else if (dwReason == DLL_PROCESS_DETACH)
        _Module.Term();
    return TRUE;    // ok
}

// Used to determine whether the DLL can be unloaded by OLE

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

// Returns a class factory to create an object of the requested type

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

// DllRegisterServer - Adds entries to the system registry

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

// DllUnregisterServer - Removes entries from the system registry

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

```

TPCCNewOrder.h

```

#pragma warning( disable: 4049 ) /* more than 64k source lines */

/* this ALWAYS GENERATED file contains the definitions for the interfaces */

```

```

/* File created by MIDL compiler version 5.02.0235 */
/* at Mon May 17 16:43:39 1999
*/
/* Compiler settings for TPCCNewOrder.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run), ms_ext, c_ext
error checks: allocation ref bounds_check enum stub_data
VC __declspec() decoration level:
__declspec(uuid()), __declspec(selectany), __declspec(novtable)
DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING( )

/* verify that the <rpcndr.h> version is high enough to compile this file*/
#ifndef __REQUIRED_RPCNDR_H_VERSION__
#define __REQUIRED_RPCNDR_H_VERSION__ 440
#endif

#include "rpc.h"
#include "rpcndr.h"

#ifndef __TPCCNewOrder_h__
#define __TPCCNewOrder_h__

/* Forward Declarations */

#ifndef __NewOrder_FWD_DEFINED__
#define __NewOrder_FWD_DEFINED__

#ifdef __cplusplus
typedef class NewOrder NewOrder;
#else
typedef struct NewOrder NewOrder;
#endif /* __cplusplus */
#endif /* __NewOrder_FWD_DEFINED__ */

/* header files for imported files */
#include "oaidl.h"
#include "ocidl.h"
#include "itpcc.h"

#ifdef __cplusplus
extern "C"{
#endif

void __RPC_FAR * __RPC_USER MIDL_user_allocate(size_t);
void __RPC_USER MIDL_user_free( void __RPC_FAR * );

#ifndef __TPCCNEWORDERLib_LIBRARY_DEFINED__
#define __TPCCNEWORDERLib_LIBRARY_DEFINED__

/* library TPCCNEWORDERLib */
/* [helpstring][version][uuid] */

EXTERN_C const IID LIBID_TPCCNEWORDERLib;

EXTERN_C const CLSID CLSID_NewOrder;

#ifdef __cplusplus

```

```

class DECLSPEC_UUID("975BAABF-84A7-11D2-BA47-00C04FBFE08B")
NewOrder;
#endif
#endif /* __TPCCNEWORDERLib_LIBRARY_DEFINED__ */

/* Additional Prototypes for ALL interfaces */

/* end of Additional Prototypes */

#ifdef __cplusplus
}
#endif

#endif

```

TPCCNewOrder.idl

```

// TPCCNewOrder.idl : IDL source for TPCCNewOrder.dll
//

// This file will be processed by the MIDL tool to
// produce the type library (TPCCNewOrder.tlb) and marshalling code.

import "oaidl.idl";
import "ocidl.idl";
import "..\ITPCCps\itpcc.idl";

[
    uuid(975BAAB1-84A7-11D2-BA47-00C04FBFE08B),
    version(1.0),
    helpstring("TPCCNewOrder 1.0 Type Library")
]
library TPCCNEWORDERLib
{
    importlib("stdole32.tlb");
    importlib("stdole2.tlb");

    [
        uuid(975BAABF-84A7-11D2-BA47-00C04FBFE08B),
        helpstring("NewOrder Class")
    ]
    coclass NewOrder
    {
        [default] interface ITPCC;
    };
};

```

OrderStatus.cpp

```

/* FILE: NewOrder.CPP
*
* Microsoft TPC-C Kit Ver. 4.10.000
* Copyright Microsoft, 1999
*/

#include "stdafx.h"
#include "TPCCOrderStatus.h"
#include "OrderStatus.h"

```

```

#include <transact.h>
#include <stdio.h>

#include "..\ITPCcps\itpcc_i.c"
#include "..\common.h"

////////////////////////////////////
// COrderStatus

COrderStatus::COrderStatus()
{
    m_pTxn = NULL;
    m_bCanBePooled = TRUE;
}

COrderStatus::~COrderStatus()
{
    if (m_pTxn)
        delete m_pTxn;
}

HRESULT COrderStatus::NewOrder(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT COrderStatus::Payment(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT COrderStatus::Delivery(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT COrderStatus::StockLevel(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT COrderStatus::OrderStatus(int* iSize, UCHAR** txn)
{
    IObjectContext* pObjectContext = NULL;
    HRESULT hr;
    PORDER_STATUS_DATA pOrderStatus;
    COM_DATA          *pData;
    int               iOSSize;

    try
    {
        pData = (COM_DATA*)*txn;
    }
}

```

```

        iOSSize = sizeof(ORDER_STATUS_DATA);

        // get our object context
        hr = CoGetObjectContext( IID_IObjectContext, (void
**)&pObjectContext );
        if (FAILED(hr)) return hr;

        pOrderStatus = m_pTxn->BuffAddr_OrderStatus();

        memcpy(pOrderStatus, &pData->u.OrderStatus, iOSSize );
        m_pTxn->OrderStatus();
        memcpy( &pData->u.OrderStatus, pOrderStatus, iOSSize );

        pData->retval = ERR_SUCCESS;
        pData->error = 0;

        // all went well
        pObjectContext->SetComplete();
        ReleaseInterface(pObjectContext);
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        // failed
        pObjectContext->SetAbort();
        ReleaseInterface(pObjectContext);
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        // failed
        pObjectContext->SetAbort();
        ReleaseInterface(pObjectContext);
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

HRESULT COrderStatus::CallSetComplete()
{
    IObjectContext* pObjectContext = NULL;
    HRESULT hr;

    // get our object context
    hr = CoGetObjectContext( IID_IObjectContext, (void **)&pObjectContext );

    pObjectContext->SetComplete();
    ReleaseInterface(pObjectContext);

    return hr;
}

int COrderStatus::SetDBConnectStrings(LPCSTR szServer, LPCSTR szUser, LPCSTR
szPassword, LPCSTR szDatabase)

```

```

{
    DBPROTOCOL eDB_Protocol;
    try
    {
        eDB_Protocol = ReadRegistrySettings();
        if (eDB_Protocol == Unspecified)
        {
            WriteMessageToEventLog(TEXT("Component failed to read
registry settings.));
            return 1;
        }

        switch (eDB_Protocol)
        {
        case ODBC:
            m_pTxn = new CTPCC_ODBC( szServer, szUser, szPassword,
"", szDatabase );
            if (!m_pTxn) {
                WriteMessageToEventLog(TEXT("Component could
not create ODBC class: out of memory.));
                return 1;
            }
            break;

        case DBLIB:
            m_pTxn = new CTPCC_DBLIB( szServer, szUser,
szPassword, "", szDatabase );
            if (!m_pTxn) {
                WriteMessageToEventLog(TEXT("Component could
not create DBLib class: out of memory.));
                return 1;
            }
            break;
        }
    }
    catch (CBaseErr *e)
    {
        WriteMessageToEventLog(e->ErrorText());
        delete e;
        m_bCanBePooled = FALSE;
        return 1;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled exception.));
        m_bCanBePooled = FALSE;
        return 1;
    }

    // all went well
    return 0;
}

STDMETHODIMP_(BOOL) COrderStatus::CanBePooled()
{
    return m_bCanBePooled;
}

STDMETHODIMP COrderStatus::Activate()
{
    // we don't support COM+ transactions (no enlistment)

```

```

    return S_OK;
}

//
// called by the ctor activator
// the construct string should look like "SERVER=server;DATABASE=tpcc;UID=sa;PWD="
//
STDMETHODIMP COrderStatus::Construct(IDispatch * pUnk)
{
    if (!pUnk)
        return E_UNEXPECTED;

    HRESULT hr;
    IObjectConstructString * pString = NULL;
    WCHAR wsztemp[128];
    WCHAR *p;
    CHAR szServer[32] = { 0 };
    CHAR szUser[32] = "sa";
    CHAR szPassword[32] = { 0 };
    CHAR szDatabase[32] = "tpcc";

    int i;

    try {
        hr = pUnk->QueryInterface(IID_IObjectConstructString, (void
**) &pString);

        if (pString) {
            // CComBSTR destructor frees string when out of scope
            CComBSTR bsConstructString;
            pString->get_ConstructString(&bsConstructString);
            p = wcsstr(bsConstructString.m_str, L"SERVER=");
            if (p) {
                p += 7; // skip 'SERVER='
                for (i = 0; *p != ';' && *p != '\\0'; i++,
p++) {
                    wsztemp[i] = *p;
                }
                wsztemp[i] = '\\0';
                wcstombs(szServer, wsztemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"UID=");
            if (p) {
                p += 4; // skip 'UID='
                for (i = 0; *p != ';' && *p != '\\0'; i++,
p++) {
                    wsztemp[i] = *p;
                }
                wsztemp[i] = '\\0';
                wcstombs(szUser, wsztemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"PWD=");
            if (p) {
                p += 4; // skip 'PWD='
                for (i = 0; *p != ';' && *p != '\\0'; i++,
p++) {
                    wsztemp[i] = *p;
                }
            }
        }
    }
}

```

```

                wsztemp[i] = '\0';
                wcstombs(szPassword, wsztemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"DATABASE=");
            if (p) {
                p += 9; // skip 'DATABASE='
                for (i = 0; *p != ';' && *p != '\0'; i++,
                    p++) {
                    wsztemp[i] = *p;
                }
                wsztemp[i] = '\0';
                wcstombs(szDatabase, wsztemp, 32);
            }

            pString->Release();

            if (SetDBConnectStrings(szServer, szUser, szPassword,
                szDatabase))
            {
                return E_FAIL;
            }
        }

        catch (CBaseErr *e) {
            WriteMessageToEventLog(e->ErrorText());
            delete e;
            return E_FAIL;
        }

        catch (...) {
            WriteMessageToEventLog(TEXT("Unhandled exception in object
                ::Construct"));
            return E_FAIL;
        }

        return hr;
    }
}

```

OrderStatus.h

```

// OrderStatus.h : Declaration of the COrderStatus

#ifdef _ORDERSTATUS_H_
#define _ORDERSTATUS_H_

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

#include "resource.h" // main symbols
#include <comsvcs.h>
#include "..\ITPCCps\itpcc.h"
#include "..\..\common\src\trans.h" //tpckit transaction header
contains definitions of structures specific to TPC-C
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\error.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h" // DBLIB implementation
of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h" // ODBC implementation
of TPC-C txns

////////////////////////////////////

```

```

// COrderStatus
class ATL_NO_VTABLE COrderStatus :
public CComObjectRootEx<CComSingleThreadModel>,
public CComCoClass<COrderStatus, &CLSID_OrderStatus>,
public ITPCC,
public IObjectControl,
public IObjectConstruct
{
public:
    COrderStatus();
    ~COrderStatus();

    DECLARE_REGISTRY_RESOURCEID(IDR_ORDERSTATUS)

    BEGIN_COM_MAP(COrderStatus)
        COM_INTERFACE_ENTRY(ITPCC)
        COM_INTERFACE_ENTRY(IObjectControl)
        COM_INTERFACE_ENTRY(IObjectConstruct)
    END_COM_MAP()

    // ITPCC
public:
    HRESULT __stdcall NewOrder(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall Payment(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall Delivery(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall StockLevel(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall OrderStatus(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall CallSetComplete();

    // IObjectControl
    STDMETHODIMP_(BOOL) CanBePooled();

    STDMETHODIMP Activate();

    STDMETHODIMP_(void) Deactivate()
    {
        // nothing to do
    }

    // IObjectConstruct
    STDMETHODIMP Construct(IDispatch * pUnk);

private:
    // helper methods
    BOOL m_bCanBePooled;

    CTPCC_BASE *m_pTxn;
}

```

```

        int SetDBConnectStrings(LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword,
LPCSTR szDatabase);

        struct COM_DATA
        {
                int retval;
                int error;
                union
                {
                        NEW_ORDER_DATA          NewOrder;
                        PAYMENT_DATA           Payment;
                        DELIVERY_DATA          Delivery;
                        STOCK_LEVEL_DATA       StockLevel;
                        ORDER_STATUS_DATA      OrderStatus;
                } u;
        };
};

#endif // __ORDERSTATUS_H_

```

TPCCOrderStatus.cpp

```

// TPCCOrderStatus.cpp : Implementation of DLL Exports.

// Note: Proxy/Stub Information
//       To build a separate proxy/stub DLL,
//       run nmake -f TPCCOrderStatusps.mk in the project directory.

#include "stdafx.h"
#include "resource.h"
#include "TPCCOrderStatus.h"

#include "TPCCOrderStatus_i.c"
#include "OrderStatus.h"

CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)
    OBJECT_ENTRY(CLSID_OrderStatus, COrderStatus)
END_OBJECT_MAP()

// DLL Entry Point

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInstance, DWORD dwReason, LPVOID /*lpReserved*/)
{
    if (dwReason == DLL_PROCESS_ATTACH)
    {
        _Module.Init(ObjectMap, hInstance);
        DisableThreadLibraryCalls(hInstance);
    }
    else if (dwReason == DLL_PROCESS_DETACH)
        _Module.Term();
    return TRUE;    // ok
}

// Used to determine whether the DLL can be unloaded by OLE

STDAPI DllCanUnloadNow(void)

```

```

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

// Returns a class factory to create an object of the requested type

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

// DllRegisterServer - Adds entries to the system registry

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

// DllUnregisterServer - Removes entries from the system registry

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

```

TPCCOrderStatus.h

```

#pragma warning( disable: 4049 ) /* more than 64k source lines */

/* this ALWAYS GENERATED file contains the definitions for the interfaces */

/* File created by MIDL compiler version 5.02.0235 */
/* at Mon May 17 16:43:46 1999
*/
/* Compiler settings for TPCCOrderStatus.idl:
    Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run), ms_ext, c_ext
    error checks: allocation ref bounds_check enum stub_data
    VC __declspec() decoration level:
        __declspec(uuid()), __declspec(selectany), __declspec(novtable)
        DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING( )

/* verify that the <rpcndr.h> version is high enough to compile this file*/
#ifndef __REQUIRED_RPCNDR_H_VERSION__
#define __REQUIRED_RPCNDR_H_VERSION__ 440
#endif

#include "rpc.h"
#include "rpcndr.h"

#ifndef __TPCCOrderStatus_h__
#define __TPCCOrderStatus_h__

```

```

/* Forward Declarations */

#ifndef __OrderStatus_FWD_DEFINED__
#define __OrderStatus_FWD_DEFINED__

#ifdef __cplusplus
typedef class OrderStatus OrderStatus;
#else
typedef struct OrderStatus OrderStatus;
#endif /* __cplusplus */

#endif /* __OrderStatus_FWD_DEFINED__ */

/* header files for imported files */
#include "oidl.h"
#include "ocidl.h"
#include "itpcc.h"

#ifdef __cplusplus
extern "C"{
#endif

void __RPC_FAR * __RPC_USER MIDL_user_allocate(size_t);
void __RPC_USER MIDL_user_free( void __RPC_FAR * );

#ifndef __TPCCORDERSTATUSLib_LIBRARY_DEFINED__
#define __TPCCORDERSTATUSLib_LIBRARY_DEFINED__

/* library TPCCORDERSTATUSLib */
/* [helpstring][version][uuid] */

EXTERN_C const IID LIBID_TPCCORDERSTATUSLib;

EXTERN_C const CLSID CLSID_OrderStatus;

#ifdef __cplusplus
class DECLSPEC_UUID("266836AD-A50D-11D2-BA4E-00C04FBFE08B")
OrderStatus;
#endif
#endif /* __TPCCORDERSTATUSLib_LIBRARY_DEFINED__ */

/* Additional Prototypes for ALL interfaces */

/* end of Additional Prototypes */

#ifdef __cplusplus
}
#endif

#endif


```

TPCCOrderStatus.idl

```

// TPCCOrderStatus.idl : IDL source for TPCCOrderStatus.dll
//

```

```

// This file will be processed by the MIDL tool to
// produce the type library (TPCCOrderStatus.tlb) and marshalling code.

import "oidl.idl";
import "ocidl.idl";
import "..\ITPCCps\itpcc.idl";

[
    uuid(2668369F-A50D-11D2-BA4E-00C04FBFE08B),
    version(1.0),
    helpstring("TPCCOrderStatus 1.0 Type Library")
]
library TPCCORDERSTATUSLib
{
    importlib("stdole32.tlb");
    importlib("stdole2.tlb");

    [
        uuid(266836AD-A50D-11D2-BA4E-00C04FBFE08B),
        helpstring("OrderStatus Class")
    ]
    coclass OrderStatus
    {
        [default] interface ITPCC;
    };
};

```

Payment.cpp

```

/* FILE: Payment.CPP
 *
 * Microsoft TPC-C Kit Ver. 4.10.000
 * Copyright Microsoft, 1999
 */

#include "stdafx.h"
#include "TPCCPayment.h"
#include "Payment.h"

#include <transact.h>
#include <stdio.h>

#include "..\ITPCCps\itpcc_i.c"
#include "..\common.h"

// CPayment

CPayment::CPayment()
{
    m_pTxn = NULL;
    m_bCanBePooled = TRUE;
}

CPayment::~CPayment()
{
    if (m_pTxn)
        delete m_pTxn;
}

```

```

HRESULT CPayment::NewOrder(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT CPayment::Payment(int* iSize, UCHAR** txn)
{
    IObjectContext* pObjectContext = NULL;
    HRESULT hr;
    PPAYMENT_DATA pPayment;
    COM_DATA *pData;
    int iPSize;

    try
    {
        pData = (COM_DATA*)*txn;
        iPSize = sizeof(PAYMENT_DATA);

        // get our object context
        hr = CoGetObjectContext( IID_IObjectContext, (void
**)&pObjectContext );
        if (FAILED(hr)) return hr;

        pPayment = m_pTxn->BuffAddr_Payment();
        memcpy(pPayment, &pData->u.Payment, iPSize );
        m_pTxn->Payment();
        memcpy( &pData->u.Payment, pPayment, iPSize );

        pData->retval = ERR_SUCCESS;
        pData->error = 0;

        // all went well
        pObjectContext->SetComplete();
        ReleaseInterface(pObjectContext);
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        // failed
        pObjectContext->SetAbort();
        ReleaseInterface(pObjectContext);
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        // failed
        pObjectContext->SetAbort();
        ReleaseInterface(pObjectContext);
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

```

```

HRESULT CPayment::Delivery(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT CPayment::StockLevel(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT CPayment::OrderStatus(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT CPayment::CallSetComplete()
{
    IObjectContext* pObjectContext = NULL;
    HRESULT hr;

    // get our object context
    hr = CoGetObjectContext( IID_IObjectContext, (void **)&pObjectContext );

    pObjectContext->SetComplete();
    ReleaseInterface(pObjectContext);

    return hr;
}

int CPayment::SetDBConnectStrings(LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword,
LPCSTR szDatabase)
{
    DBPROTOCOL eDB_Protocol;
    try
    {
        eDB_Protocol = ReadRegistrySettings();
        if (eDB_Protocol == Unspecified)
        {
            WriteMessageToEventLog(TEXT("Component failed to read
registry settings."));
            return 1;
        }

        switch (eDB_Protocol)
        {
            case ODBC:
                m_pTxn = new CTPCC_ODBC( szServer, szUser, szPassword,
"", szDatabase );
                if (!m_pTxn) {
                    WriteMessageToEventLog(TEXT("Component could
not create ODBC class: out of memory."));
                    return 1;
                }
                break;

            case DBLIB:

```



```

        m_pTxn = new CTPCC_DBLIB( szServer, szUser,
szPassword, "", szDatabase );
        if (!m_pTxn) {
            WriteMessageToEventLog(TEXT("Component could
not create DblLib class: out of memory."));
            return 1;
        }
        break;
    }
}
catch (CBaseErr *e)
{
    WriteMessageToEventLog(e->ErrorText());
    delete e;
    m_bCanBePooled = FALSE;
    return 1;
}
catch (...)
{
    WriteMessageToEventLog(TEXT("Unhandled exception."));
    m_bCanBePooled = FALSE;
    return 1;
}

// all went well
return 0;
}

STDMETHODIMP_(BOOL) CPayment::CanBePooled()
{
    return m_bCanBePooled;
}

STDMETHODIMP CPayment::Activate()
{
    // we don't support COM+ transactions (no enlistment)
    return S_OK;
}

//
// called by the ctor activator
// the construct string should look like "SERVER=server;DATABASE=tpcc;UID=sa;PWD="
//
STDMETHODIMP CPayment::Construct(IDispatch * pUnk)
{
    if (!pUnk)
        return E_UNEXPECTED;

    HRESULT hr;
    IObjectConstructString * pString = NULL;
    WCHAR wszTemp[128];
    WCHAR *p;
    CHAR szServer[32] = { 0 };
    CHAR szUser[32] = "sa";
    CHAR szPassword[32] = { 0 };
    CHAR szDatabase[32] = "tpcc";

    int i;

```

```

    try {
        hr = pUnk->QueryInterface(IID_IObjectConstructString, (void
**) &pString);

        if (pString) {
            // CComBSTR destructor frees string when out of scope
            CComBSTR bsConstructString;
            pString->get_ConstructString(&bsConstructString);
            p = wcsstr(bsConstructString.m_str, L"SERVER=");
            if (p) {
                p += 7; // skip 'SERVER='
                for (i = 0; *p != ';' && *p != '\0'; i++,
p++) {
                    wszTemp[i] = *p;
                }
                wszTemp[i] = '\0';
                wcstombs(szServer, wszTemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"UID=");
            if (p) {
                p += 4; // skip 'UID='
                for (i = 0; *p != ';' && *p != '\0'; i++,
p++) {
                    wszTemp[i] = *p;
                }
                wszTemp[i] = '\0';
                wcstombs(szUser, wszTemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"PWD=");
            if (p) {
                p += 4; // skip 'PWD='
                for (i = 0; *p != ';' && *p != '\0'; i++,
p++) {
                    wszTemp[i] = *p;
                }
                wszTemp[i] = '\0';
                wcstombs(szPassword, wszTemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"DATABASE=");
            if (p) {
                p += 9; // skip 'DATABASE='
                for (i = 0; *p != ';' && *p != '\0'; i++,
p++) {
                    wszTemp[i] = *p;
                }
                wszTemp[i] = '\0';
                wcstombs(szDatabase, wszTemp, 32);
            }

            pString->Release();

            if (SetDBConnectStrings(szServer, szUser, szPassword,
szDatabase))
                return E_FAIL;
        }
    }
}

```

```

        catch (CBaseErr *e) {
            WriteMessageToEventLog(e->ErrorText());
            delete e;
            return E_FAIL;
        }
        catch (...) {
            WriteMessageToEventLog(TEXT("Unhandled exception in object
::Construct"));
            return E_FAIL;
        }
        return hr;
    }
}

```

Payment.h

```

// Payment.h : Declaration of the CPayment

#ifndef __PAYMENT_H_
#define __PAYMENT_H_

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

#include "resource.h" // main symbols
#include <comsvcs.h>
#include "..\ITPCCps\itpcc.h"
#include "..\..\common\src\trans.h" //tpckit transaction header
contains definitions of structures specific to TPC-C
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\error.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h" // DBLIB implementation
of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h" // ODBC implementation
of TPC-C txns

////////////////////////////////////
// CPayment
class ATL_NO_VTABLE CPayment :
    public CComObjectRootEx<CComSingleThreadModel>,
    public CComCoClass<CPayment, &CLSID_Payment>,
    public ITPCC,
    public IObjectControl,
    public IObjectConstruct
{
public:
    CPayment();
    ~CPayment();

DECLARE_REGISTRY_RESOURCEID(IDR_PAYMENT)

BEGIN_COM_MAP(CPayment)
    COM_INTERFACE_ENTRY(ITPCC)
    COM_INTERFACE_ENTRY(IObjectControl)
    COM_INTERFACE_ENTRY(IObjectConstruct)
END_COM_MAP()

// ITPCC
public:
    HRESULT __stdcall NewOrder(
        int* iSize,
        UCHAR** txn);

```

```

    HRESULT __stdcall Payment(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall Delivery(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall StockLevel(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall OrderStatus(
        int* iSize,
        UCHAR** txn);

    HRESULT __stdcall CallSetComplete();

// IObjectControl
    STDMETHODCALLTYPE CanBePooled();

    STDMETHODCALLTYPE Activate();

    STDMETHODCALLTYPE Deactivate()
    {
        // nothing to do
    }

// IObjectConstruct
    STDMETHODCALLTYPE Construct(IDispatch * pUnk);

private:
    // helper methods
    BOOL m_bCanBePooled;

    CTPCC_BASE *m_pTxn;

    int SetDBConnectStrings(LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword,
    LPCSTR szDatabase);

    struct COM_DATA
    {
        int retval;
        int error;
        union
        {
            {
                NEW_ORDER_DATA          NewOrder;
                PAYMENT_DATA            Payment;
                DELIVERY_DATA           Delivery;
                STOCK_LEVEL_DATA        StockLevel;
                ORDER_STATUS_DATA       OrderStatus;
            } u;
        };
    };

};

#endif // __PAYMENT_H_

```

TPCCPayment.cpp

```

// TPCCPayment.cpp : Implementation of DLL Exports.

```

```

// Note: Proxy/Stub Information
//       To build a separate proxy/stub DLL,
//       run nmake -f TPCCPaymentps.mk in the project directory.

#include "stdafx.h"
#include "resource.h"
#include "TPCCPayment.h"

#include "TPCCPayment_i.c"
#include "Payment.h"

CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)
    OBJECT_ENTRY(CLSID_Payment, CPayment)
END_OBJECT_MAP()

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

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInstance, DWORD dwReason, LPVOID /*lpReserved*/)
{
    if (dwReason == DLL_PROCESS_ATTACH)
    {
        _Module.Init(ObjectMap, hInstance);
        DisableThreadLibraryCalls(hInstance);
    }
    else if (dwReason == DLL_PROCESS_DETACH)
        _Module.Term();
    return TRUE;    // ok
}

////////////////////////////////////
// Used to determine whether the DLL can be unloaded by OLE

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

////////////////////////////////////
// Returns a class factory to create an object of the requested type

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

////////////////////////////////////
// DllRegisterServer - Adds entries to the system registry

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

////////////////////////////////////
// DllUnregisterServer - Removes entries from the system registry

```

```

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

```

TPCCPayment.h

```

#pragma warning( disable: 4049 ) /* more than 64k source lines */

/* this ALWAYS GENERATED file contains the definitions for the interfaces */

/* File created by MIDL compiler version 5.02.0235 */
/* at Mon May 17 16:43:53 1999
*/
/* Compiler settings for TPCCPayment.idl:
    Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run), ms_ext, c_ext
    error checks: allocation ref bounds_check enum stub_data
    VC __declspec() decoration level:
        __declspec(uuid()), __declspec(selectany), __declspec(novtable)
        DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )

/* verify that the <rpcndr.h> version is high enough to compile this file*/
#ifndef __REQUIRED_RPCNDR_H_VERSION__
#define __REQUIRED_RPCNDR_H_VERSION__ 440
#endif

#include "rpc.h"
#include "rpcndr.h"

#ifndef __TPCCPayment_h__
#define __TPCCPayment_h__

/* Forward Declarations */

#ifndef __Payment_FWD_DEFINED__
#define __Payment_FWD_DEFINED__

#ifdef __cplusplus
typedef class Payment Payment;
#else
typedef struct Payment Payment;
#endif /* __cplusplus */

#endif /* __Payment_FWD_DEFINED__ */

/* header files for imported files */
#include "oaidl.h"
#include "ocidl.h"
#include "itpcc.h"

#ifdef __cplusplus
extern "C"{
#endif

```

```
void __RPC_FAR * __RPC_USER MIDL_user_allocate(size_t);
void __RPC_USER MIDL_user_free( void __RPC_FAR * );
```

```
#ifndef __TPCCPAYMENTLib_LIBRARY_DEFINED__
#define __TPCCPAYMENTLib_LIBRARY_DEFINED__
```

```
/* library TPCCPAYMENTLib */
/* [helpstring][version][uuid] */
```

```
EXTERN_C const IID LIBID_TPCCPAYMENTLib;
```

```
EXTERN_C const CLSID CLSID_Payment;
```

```
#ifdef __cplusplus
```

```
class DECLSPEC_UUID("CD02F7EF-A4FA-11D2-BA4E-00C04FBFE08B")
Payment;
#endif
#endif /* __TPCCPAYMENTLib_LIBRARY_DEFINED__ */
```

```
/* Additional Prototypes for ALL interfaces */
```

```
/* end of Additional Prototypes */
```

```
#ifdef __cplusplus
```

```
}
#endif
```

```
#endif
```

TPCCPayment.idl

```
// TPCCPayment.idl : IDL source for TPCCPayment.dll
//
```

```
// This file will be processed by the MIDL tool to
// produce the type library (TPCCPayment.tlb) and marshalling code.
```

```
import "oaidl.idl";
import "ocidl.idl";
import "..\ITPCCps\itpcc.idl";
```

```
[
    uuid(CD02F7E1-A4FA-11D2-BA4E-00C04FBFE08B),
    version(1.0),
    helpstring("TPCCPayment 1.0 Type Library")
]
```

```
library TPCCPAYMENTLib
```

```
{
    importlib("stdole32.tlb");
    importlib("stdole2.tlb");
```

```
[
    uuid(CD02F7EF-A4FA-11D2-BA4E-00C04FBFE08B),
    helpstring("Payment Class")
]
```

```
coclass Payment
```

```
{
    [default] interface ITPCC;
```

```
};
```

StockLevel.cpp

```
/* FILE: StockLevel.CPP
```

```
 *
 * Microsoft TPC-C Kit Ver. 4.10.000
 * Copyright Microsoft, 1999
 */
```

```
#include "stdafx.h"
#include "TPCCStockLevel.h"
#include "StockLevel.h"
```

```
#include <transact.h>
#include <stdio.h>
```

```
#include "..\ITPCCps\itpcc_i.c"
#include "..\common.h"
```

```
////////////////////////////////////
// CStockLevel
```

```
CStockLevel::CStockLevel()
{
    m_pTxn = NULL;
    m_bCanBePooled = TRUE;
}
```

```
CStockLevel::~CStockLevel()
{
    if (m_pTxn)
        delete m_pTxn;
}
```

```
HRESULT CStockLevel::NewOrder(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}
```

```
HRESULT CStockLevel::Payment(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}
```

```
HRESULT CStockLevel::Delivery(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}
```

```
HRESULT CStockLevel::StockLevel(int* iSize, UCHAR** txn)
{
    IObjectContext* pObjectContext = NULL;
```

```

HRESULT hr;
PSTOCK_LEVEL_DATA pStockLevel;
COM_DATA          *pData;
int               iSLSize;

try
{
    pData = (COM_DATA*)txn;

    iSLSize = sizeof(STOCK_LEVEL_DATA);

    // get our object context
    hr = CoGetObjectContext( IID_IObjectContext, (void
**)&pObjectContext );
    if (FAILED(hr)) return hr;

    pStockLevel = m_pTxn->BuffAddr_StockLevel();

    memcpy(pStockLevel, &pData->u.StockLevel, iSLSize );
    m_pTxn->StockLevel();
    memcpy( &pData->u.StockLevel, pStockLevel, iSLSize );

    pData->retval = ERR_SUCCESS;
    pData->error = 0;

    // all went well
    pObjectContext->SetComplete();
    ReleaseInterface(pObjectContext);
    return S_OK;
}
catch (CBaseErr *e)
{
    pData->retval = e->ErrorType();
    pData->error = e->ErrorNum();
    delete e;
    // failed
    pObjectContext->SetAbort();
    ReleaseInterface(pObjectContext);
    return E_FAIL;
}
catch (...)
{
    WriteMessageToEventLog(TEXT("Unhandled exception."));
    pData->retval = ERR_TYPE_LOGIC;
    pData->error = 0;
    // failed
    pObjectContext->SetAbort();
    ReleaseInterface(pObjectContext);
    m_bCanBePooled = FALSE;
    return E_FAIL;
}
}

HRESULT CStockLevel::OrderStatus(int* iSize, UCHAR** txn)
{
    // not implemented
    return E_NOTIMPL;
}

HRESULT CStockLevel::CallSetComplete()
{

```

```

IObjectContext* pObjectContext = NULL;
HRESULT hr;

// get our object context
hr = CoGetObjectContext( IID_IObjectContext, (void **)&pObjectContext );

pObjectContext->SetComplete();
ReleaseInterface(pObjectContext);

return hr;
}

int CStockLevel::SetDBConnectStrings(LPCSTR szServer, LPCSTR szUser, LPCSTR
szPassword, LPCSTR szDatabase)
{
    DBPROTOCOL eDB_Protocol;
    try
    {
        eDB_Protocol = ReadRegistrySettings();
        if (eDB_Protocol == Unspecified)
        {
            WriteMessageToEventLog(TEXT("Component failed to read
registry settings."));
            return 1;
        }

        switch (eDB_Protocol)
        {
            case ODBC:
                m_pTxn = new CTPCC_ODBC( szServer, szUser, szPassword,
"", szDatabase );
                if (!m_pTxn) {
                    WriteMessageToEventLog(TEXT("Component could
not create ODBC class: out of memory."));
                    return 1;
                }
                break;

            case DBLIB:
                m_pTxn = new CTPCC_DBLIB( szServer, szUser,
szPassword, "", szDatabase );
                if (!m_pTxn) {
                    WriteMessageToEventLog(TEXT("Component could
not create DBLib class: out of memory."));
                    return 1;
                }
                break;
        }
    }
    catch (CBaseErr *e)
    {
        WriteMessageToEventLog(e->ErrorText());
        delete e;
        m_bCanBePooled = FALSE;
        return 1;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled exception."));
        m_bCanBePooled = FALSE;
        return 1;
    }
}

```

```

        // all went well
        return 0;
    }

STDMETHODIMP_(BOOL) CStockLevel::CanBePooled()
{
    return m_bCanBePooled;
}

STDMETHODIMP CStockLevel::Activate()
{
    // we don't support COM+ transactions (no enlistment)
    return S_OK;
}

//
// called by the ctor activator
// the construct string should look like "SERVER=server;DATABASE=tpcc;UID=sa;PWD="
//
STDMETHODIMP CStockLevel::Construct(IDispatch * pUnk)
{
    if (!pUnk)
        return E_UNEXPECTED;

    HRESULT hr;
    IObjectConstructString * pString = NULL;
    WCHAR wsztemp[128];
    WCHAR *p;
    CHAR szServer[32] = { 0 };
    CHAR szUser[32] = "sa";
    CHAR szPassword[32] = { 0 };
    CHAR szDatabase[32] = "tpcc";

    int i;

    try {
        hr = pUnk->QueryInterface(IID_IObjectConstructString, (void
**)&pString);

        if (pString) {
            // CComBSTR destructor frees string when out of scope
            CComBSTR bsConstructString;
            pString->get_ConstructString(&bsConstructString);
            p = wcsstr(bsConstructString.m_str, L"SERVER=");
            if (p) {
                p += 7; // skip 'SERVER='
                for (i = 0; *p != ';' && *p != '\\0'; i++,
                    wsztemp[i] = *p;
                }
                wsztemp[i] = '\\0';
                wcstombs(szServer, wsztemp, 32);
            }

            p = wcsstr(bsConstructString.m_str, L"UID=");

```

```

        if (p) {
            p += 4; // skip 'UID='
            for (i = 0; *p != ';' && *p != '\\0'; i++,
                wsztemp[i] = *p;
            )
                wsztemp[i] = '\\0';
            wcstombs(szUser, wsztemp, 32);
        }

        p = wcsstr(bsConstructString.m_str, L"PWD=");
        if (p) {
            p += 4; // skip 'PWD='
            for (i = 0; *p != ';' && *p != '\\0'; i++,
                wsztemp[i] = *p;
            )
                wsztemp[i] = '\\0';
            wcstombs(szPassword, wsztemp, 32);
        }

        p = wcsstr(bsConstructString.m_str, L"DATABASE=");
        if (p) {
            p += 9; // skip 'DATABASE='
            for (i = 0; *p != ';' && *p != '\\0'; i++,
                wsztemp[i] = *p;
            )
                wsztemp[i] = '\\0';
            wcstombs(szDatabase, wsztemp, 32);
        }

        pString->Release();

        if (SetDBConnectStrings(szServer, szUser, szPassword,
szDatabase))
        {
            return E_FAIL;
        }
    }

    catch (CBaseErr *e) {
        WriteMessageToEventLog(e->ErrorText());
        delete e;
        return E_FAIL;
    }

    catch (...) {
        WriteMessageToEventLog(TEXT("Unhandled exception in object
::Construct"));
        return E_FAIL;
    }

    return hr;
}

```

StockLevel.h

// StockLevel.h : Declaration of the CStockLevel

```

#ifdef __STOCKLEVEL_H_
#define __STOCKLEVEL_H_

```

```

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

#include "resource.h" // main symbols
#include <comsvcs.h>
#include "..\ITPCcps\itpcc.h"
#include "..\..\common\src\trans.h" //tpckit transaction header
contains definitions of structures specific to TPC-C
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\error.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h" // DBLIB implementation
of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h" // ODBC implementation
of TPC-C txns

////////////////////////////////////
// CStockLevel
class ATL_NO_VTABLE CStockLevel :
public CComObjectRootEx<CComSingleThreadModel>,
public CComCoClass<CStockLevel, &CLSID_StockLevel>,
public ITPCC,
public IObjectControl,
public IObjectConstruct
{
public:
CStockLevel();
~CStockLevel();

DECLARE_REGISTRY_RESOURCEID(IDR_STOCKLEVEL)

BEGIN_COM_MAP(CStockLevel)
COM_INTERFACE_ENTRY(ITPCC)
COM_INTERFACE_ENTRY(IObjectControl)
COM_INTERFACE_ENTRY(IObjectConstruct)
END_COM_MAP()

// ITPCC
public:
HRESULT __stdcall NewOrder(
int* iSize,
UCHAR** txn);

HRESULT __stdcall Payment(
int* iSize,
UCHAR** txn);

HRESULT __stdcall Delivery(
int* iSize,
UCHAR** txn);

HRESULT __stdcall StockLevel(
int* iSize,
UCHAR** txn);

HRESULT __stdcall OrderStatus(
int* iSize,
UCHAR** txn);

HRESULT __stdcall CallSetComplete();

// IObjectControl
STDMETHODIMP_(BOOL) CanBePooled();

```

```

STDMETHODIMP Activate();

STDMETHODIMP_(void) Deactivate()
{
// nothing to do
}

// IObjectConstruct
STDMETHODIMP Construct(IDispatch * pUnk);

// helper methods
private:
BOOL m_bCanBePooled;

CTPCC_BASE *m_pTxn;

int SetDBConnectStrings(LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword,
LPCSTR szDatabase);

struct COM_DATA
{
int retval;
int error;
union
{
NEW_ORDER_DATA NewOrder;
PAYMENT_DATA Payment;
DELIVERY_DATA Delivery;
STOCK_LEVEL_DATA StockLevel;
ORDER_STATUS_DATA OrderStatus;
} u;
};

#endif // __STOCKLEVEL_H_

```

TPCCStockLevel.cpp

```

// TPCCStockLevel.cpp : Implementation of DLL Exports.

// Note: Proxy/Stub Information
// To build a separate proxy/stub DLL,
// run nmake -f TPCCStockLevelps.mk in the project directory.

#include "stdafx.h"
#include "resource.h"
#include "initguid.h"
#include "TPCCStockLevel.h"

#include "TPCCStockLevel_i.c"
#include "StockLevel.h"

CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)
OBJECT_ENTRY(CLSID_StockLevel, CStockLevel)
END_OBJECT_MAP()

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

```

```

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInstance, DWORD dwReason, LPVOID /*lpReserved*/)
{
    if (dwReason == DLL_PROCESS_ATTACH)
    {
        _Module.Init(ObjectMap, hInstance);
        DisableThreadLibraryCalls(hInstance);
    }
    else if (dwReason == DLL_PROCESS_DETACH)
        _Module.Term();
    return TRUE;    // ok
}

////////////////////////////////////
// Used to determine whether the DLL can be unloaded by OLE

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

////////////////////////////////////
// Returns a class factory to create an object of the requested type

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

////////////////////////////////////
// DllRegisterServer - Adds entries to the system registry

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

////////////////////////////////////
// DllUnregisterServer - Removes entries from the system registry

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

```

TPCCStockLevel.h

```

#pragma warning( disable: 4049 ) /* more than 64k source lines */

/* this ALWAYS GENERATED file contains the definitions for the interfaces */

/* File created by MIDL compiler version 5.02.0235 */
/* at Mon May 17 16:44:00 1999
*/
/* Compiler settings for TPCCStockLevel.idl:
    Oicf (OptLev=12), W1, Zp8, env=Win32 (32b run), ms_ext, c_ext

```

```

error checks: allocation ref bounds_check enum stub_data
VC __declspec() decoration level:
    __declspec(uuid()), __declspec(selectany), __declspec(novtable)
    DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )

/* verify that the <rpcndr.h> version is high enough to compile this file*/
#ifndef __REQUIRED_RPCNDR_H_VERSION__
#define __REQUIRED_RPCNDR_H_VERSION__ 440
#endif

#include "rpc.h"
#include "rpcndr.h"

#ifndef __TPCCStockLevel_h__
#define __TPCCStockLevel_h__

/* Forward Declarations */

#ifndef __StockLevel_FWD_DEFINED__
#define __StockLevel_FWD_DEFINED__

#ifdef __cplusplus
typedef class StockLevel StockLevel;
#else
typedef struct StockLevel StockLevel;
#endif /* __cplusplus */

#endif /* __StockLevel_FWD_DEFINED__ */

/* header files for imported files */
#include "oaidl.h"
#include "ocidl.h"
#include "itpcc.h"

#ifdef __cplusplus
extern "C"{
#endif

void __RPC_FAR * __RPC_USER MIDL_user_allocate(size_t);
void __RPC_USER MIDL_user_free( void __RPC_FAR * );

#ifndef __TPCCSTOCKLEVELLib_LIBRARY_DEFINED__
#define __TPCCSTOCKLEVELLib_LIBRARY_DEFINED__

/* library TPCCSTOCKLEVELLib */
/* [helpstring][version][uuid] */

EXTERN_C const IID LIBID_TPCCSTOCKLEVELLib;

EXTERN_C const CLSID CLSID_StockLevel;

#ifdef __cplusplus
class DECLSPEC_UUID("2668369E-A50D-11D2-BA4E-00C04FBFE08B")
StockLevel;
#endif
#endif /* __TPCCSTOCKLEVELLib_LIBRARY_DEFINED__ */

```



```
/* Additional Prototypes for ALL interfaces */
```

```
/* end of Additional Prototypes */
```

```
#ifdef __cplusplus
```

```
}
```

```
#endif
```

```
#endif
```

TPCCStockLevel.idl

```
// TPCCStockLevel.idl : IDL source for TPCCStockLevel.dll  
//
```

```
// This file will be processed by the MIDL tool to  
// produce the type library (TPCCStockLevel.tlb) and marshalling code.
```

```
import "oidl.idl";  
import "ocidl.idl";  
import "..\ITPCCps\itpcc.idl";
```

```
[  
    uuid(26683690-A50D-11D2-BA4E-00C04FBFE08B),  
    version(1.0),  
    helpstring("TPCCStockLevel 1.0 Type Library")  
]  
library TPCCSTOCKLEVELLib  
{  
    importlib("stdole32.tlb");  
    importlib("stdole2.tlb");  
  
    [  
        uuid(2668369E-A50D-11D2-BA4E-00C04FBFE08B),  
        helpstring("StockLevel Class")  
    ]  
    coclass StockLevel  
    {  
        [default] interface ITPCC;  
    };  
};
```

Appendix B: Database Design

The TPC-C database was created with the following Transact-SQL scripts:

CREATEDB.SQL

```
-- File:      CREATEDB.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.00
--           Copyright Microsoft, 1996
-- Purpose:   Creates tpcc database and backup files

use master
go

-- remove any existing database and backup files
exec sp_dbrremove tpcc, dropdev
exec sp_dropdevice 'tpccback1'
exec sp_dropdevice 'tpccback2'
exec sp_dropdevice 'tpccback3'
exec sp_dropdevice 'tpccback4'
go

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

-- create main database files

create database tpcc on
    (name="MSSQL70_tpcc_root",filename="C:\MSSQL70_tpcc_root.mdf",size=8MB,
FILEGROWTH=0)
log on
    (name="MSSQL70_tpcc_log",filename="F:",size=95000MB, FILEGROWTH=0)

-- create filegroups

alter database tpcc add filegroup misc_fg
alter database tpcc add filegroup big_fg

-- add files to filegroups

alter database tpcc add file
    (name="misc1",filename="O:",size=12000MB, FILEGROWTH=0),
    (name="misc2",filename="P:",size=12000MB, FILEGROWTH=0),
    (name="misc3",filename="Q:",size=12000MB, FILEGROWTH=0),
    (name="misc4",filename="R:",size=12000MB, FILEGROWTH=0),
    (name="misc5",filename="S:",size=12000MB, FILEGROWTH=0),
    (name="misc6",filename="T:",size=12000MB, FILEGROWTH=0),
    (name="misc7",filename="Y:",size=12000MB, FILEGROWTH=0),
    (name="misc8",filename="Z:",size=12000MB, FILEGROWTH=0)
to filegroup misc_fg
```

```
alter database tpcc add file
    (name="stock1",filename="G:",size=26000MB, FILEGROWTH=0),
    (name="stock2",filename="H:",size=26000MB, FILEGROWTH=0),
    (name="stock3",filename="I:",size=26000MB, FILEGROWTH=0),
    (name="stock4",filename="J:",size=26000MB, FILEGROWTH=0),
    (name="stock5",filename="K:",size=26000MB, FILEGROWTH=0),
    (name="stock6",filename="L:",size=26000MB, FILEGROWTH=0),
    (name="stock7",filename="M:",size=26000MB, FILEGROWTH=0),
    (name="stock8",filename="N:",size=26000MB, FILEGROWTH=0)
to filegroup big_fg

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

-- create backup devices

exec sp_addumpdevice 'disk','tpccback1','u:\tpccback1.dmp'
exec sp_addumpdevice 'disk','tpccback2','u:\tpccback2.dmp'
exec sp_addumpdevice 'disk','tpccback3','u:\tpccback3.dmp'
exec sp_addumpdevice 'disk','tpccback4','u:\tpccback4.dmp'
go
```

DBOPT1.SQL

```
-- File:      DBOPT1.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.00
--           Copyright Microsoft, 1996
-- 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
go

use tpcc
go

checkpoint
go
```

DBOPT2.SQL

```
-- File:      DBOPT2.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.00
--           Copyright Microsoft, 1996
-- Purpose:   Resets database options after data load

use master
go

sp_dboption tpcc,'select ',false
```

```

go

sp_dboption tpcc,'trunc. ',false
go

use tpcc
go

checkpoint
go

sp_configure allow,1
go

reconfigure with override
go

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

sp_indexoption 'customer','AllowPageLocks',FALSE
go
sp_indexoption 'district','AllowPageLocks',FALSE
go
sp_indexoption 'warehouse','AllowPageLocks',FALSE
go
sp_indexoption 'stock','AllowPageLocks',FALSE
go
sp_indexoption 'order_line','AllowRowLocks',FALSE
go
sp_indexoption 'order_line','AllowPageLocks',TRUE
go
sp_indexoption 'orders','AllowRowLocks',FALSE
go
sp_indexoption 'orders','AllowPageLocks',TRUE
go
sp_indexoption 'new_order','AllowRowLocks',FALSE
go
sp_indexoption 'new_order','AllowPageLocks',TRUE
go
sp_indexoption 'item','AllowRowLocks',FALSE
go
sp_indexoption 'item','AllowPageLocks',FALSE
go

Print ' '
Print '*****'
Print 'Pre-specified Locking Hierarchy:'
Print '  Lockflag = 0 ==> No pre-pecified 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,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

```

DELIVERY.SQL

```

-- File:      DELIVERY.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.00
--           Copyright Microsoft, 1996
-- Purpose:   Creates delivery transaction stored procedure
use tpcc
go

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

create proc tpcc_delivery      @w_id          smallint,
                               @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
```

IDXCUSCL.SQL

```

-- File:      IDXCUSCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.00
--           Copyright Microsoft, 1996
-- 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_cl' )
drop index customer.customer_cl

```

```

create unique clustered index customer_cl on customer(c_w_id, c_d_id, c_id)
on big_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. 4.00
--           Copyright Microsoft, 1996
-- 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)
    on big_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. 4.00
--           Copyright Microsoft, 1996
-- 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_cl' )
    drop index district.district_cl

create unique clustered index  district_cl on district(d_w_id, d_id)
    with fillfactor=100 on 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. 4.00
--           Copyright Microsoft, 1996
-- 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_cl' )
    drop index item.item_cl

```

```

create unique clustered index item_cl on item(i_id)
    on 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. 4.00
--           Copyright Microsoft, 1996
-- 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_cl' )
    drop index new_order.new_order_cl

create unique clustered index new_order_cl on new_order(no_w_id, no_d_id, no_o_id)
    on misc_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. 4.00
--           Copyright Microsoft, 1996
-- 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_cl' )
    drop index order_line.order_line_cl

create unique clustered index order_line_cl on order_line(ol_w_id, ol_d_id, ol_o_id,
ol_number)
    on misc_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. 4.00
--           Copyright Microsoft, 1996
-- 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 misc_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. 4.00
--           Copyright Microsoft, 1996
-- 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)
on misc_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. 4.00
--           Copyright Microsoft, 1996
-- 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 big_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. 4.00
--           Copyright Microsoft, 1996
-- 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 misc_fg

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

go

```

NEWORD.SQL

```
-- File:          NEWORD.SQL
--               Microsoft TPC-C Benchmark Kit Ver. 4.00
--               Copyright Microsoft, 1996
-- Purpose:       Creates new order transaction stored procedure
--
-- Modified 6/24/98 - Jamie Reding - Microsoft Corporation
--               Replaced Select of @s_quantity with Select of @li_qty to insure
--               correct data when sending line-item data to client.
--
use tpcc
go

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

create proc tpcc_neworder

    @w_id                smallint,
    @d_id                tinyint,
    @c_id                int,
    @o_ol_cnt            tinyint,
    @o_all_local         tinyint,
    @i_id1 int = 0, @ol_qty1 smallint = 0,
    @i_id2 int = 0, @ol_qty2 smallint = 0,
    @i_id3 int = 0, @ol_qty3 smallint = 0,
    @i_id4 int = 0, @ol_qty4 smallint = 0,
    @i_id5 int = 0, @ol_qty5 smallint = 0,
    @i_id6 int = 0, @ol_qty6 smallint = 0,
    @i_id7 int = 0, @ol_qty7 smallint = 0,
    @i_id8 int = 0, @ol_qty8 smallint = 0,
    @i_id9 int = 0, @ol_qty9 smallint = 0,
    @i_id10 int = 0, @ol_qty10 smallint = 0,
    @i_id11 int = 0, @ol_qty11 smallint = 0,
    @i_id12 int = 0, @ol_qty12 smallint = 0,
    @i_id13 int = 0, @ol_qty13 smallint = 0,
    @i_id14 int = 0, @ol_qty14 smallint = 0,
    @i_id15 int = 0, @ol_qty15 smallint = 0
```

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

begin

    begin transaction n

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

    update district
    set @d_tax = d_tax,
        @o_id = d_next_o_id,
        d_next_o_id = d_next_o_id + 1,
        @o_entry_d = getdate(),
        @li_no = 0,
        @commit_flag = 1
    where d_w_id = @w_id and
        d_id = @d_id

-- process orderlines

    while (@li_no < @o_ol_cnt)
    begin

        select @li_no = @li_no + 1

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

        select @li_id = case @li_no
            when 1 then @i_id1
            when 2 then @i_id2
            when 3 then @i_id3
            when 4 then @i_id4
            when 5 then @i_id5
            when 6 then @i_id6
            when 7 then @i_id7
            when 8 then @i_id8
            when 9 then @i_id9
            when 10 then @i_id10
            when 11 then @i_id11
```

```

when 12 then @i_id12
when 13 then @i_id13
when 14 then @i_id14
when 15 then @i_id15
end,

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

@li_qty = case @li_no
when 1 then @ol_qty1
when 2 then @ol_qty2
when 3 then @ol_qty3
when 4 then @ol_qty4
when 5 then @ol_qty5
when 6 then @ol_qty6
when 7 then @ol_qty7
when 8 then @ol_qty8
when 9 then @ol_qty9
when 10 then @ol_qty10
when 11 then @ol_qty11
when 12 then @ol_qty12
when 13 then @ol_qty13
when 14 then @ol_qty14
when 15 then @ol_qty15
end

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

-- if there actually is an item with this id, go to work
if (@@rowcount > 0)
begin
update stock set s_ytd = s_ytd + @li_qty,
@s_quantity = s_quantity,
s_quantity = s_quantity - @li_qty +
case when (s_quantity - @li_qty < 10) then 91 else
0 end,
s_order_cnt = s_order_cnt + 1,
s_remote_cnt = s_remote_cnt + case
when (@li_s_w_id = @w_id) then 0 else 1 end,
@s_data = s_data,

```

```

@s_dist = case @d_id
when 1 then s_dist_01
when 2 then s_dist_02
when 3 then s_dist_03
when 4 then s_dist_04
when 5 then s_dist_05
when 6 then s_dist_06
when 7 then s_dist_07
when 8 then s_dist_08
when 9 then s_dist_09
when 10 then s_dist_10
end

where s_i_id = @li_id and
s_w_id = @li_s_w_id

-- 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,
@li_qty,
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 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. 4.00
--           Copyright Microsoft, 1996
-- Purpose:   Creates order status transaction stored procedure

use tpcc
go

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

create proc tpcc_orderstatus @w_id          smallint,

```

```

        tinyint,
        int,
        char(16) = ""
as
declare @c_balance      numeric(12,2),
        @c_first       char(16),
        @c_middle      char(2),
        @c_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
    end
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. 4.00
--           Copyright Microsoft, 1996
-- Purpose:   Creates payment transaction stored procedure

use tpcc
go

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

```

```

create proc tpcc_payment @w_id          smallint,
                        @c_w_id        smallint,
                        @h_amount      numeric(6,2),
                        @d_id          tinyint,
                        @c_d_id        tinyint,
                        @c_id          int,
                        @c_last        char(16) = ""
as
declare @w_street_1    char(20),
        @w_street_2    char(20),
        @w_city        char(20),
        @w_state       char(2),
        @w_zip         char(9),
        @w_name        char(10),
        @d_street_1    char(20),
        @d_street_2    char(20),
        @d_city        char(20),
        @d_state       char(2),
        @d_zip         char(9),
        @d_name        char(10),
        @c_first       char(16),
        @c_middle      char(2),
        @c_street_1    char(20),
        @c_street_2    char(20),
        @c_city        char(20),
        @c_state       char(2),
        @c_zip         char(9),
        @c_phone       char(16),
        @c_since       datetime,
        @c_credit      char(2),
        @c_credit_lim  numeric(12,2),
        @c_balance     numeric(12,2),
        @c_discount    numeric(4,4),
        @data          char(500),
        @c_data        char(500),
        @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   smallint,
        @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 - @h_amount,
c_payment_cnt = c_payment_cnt + 1,
c_ytd_payment = c_ytd_payment + @h_amount,
@c_first = c_first,
@c_middle = c_middle,
@c_last = c_last,
@c_street_1 = c_street_1,
@c_street_2 = c_street_2,
@c_city = c_city,
@c_state = c_state,
@c_zip = c_zip,
@c_phone = c_phone,
@c_credit = c_credit,
@c_credit_lim = c_credit_lim,
@c_discount = c_discount,
@c_since = c_since,
@data = c_data,
@c_id_local = c_id
where c_id = @c_id and
c_w_id = @c_w_id and
c_d_id = @c_d_id

-- if customer has bad credit get some more info

if (@c_credit = "BC")
begin

-- compute new info

select @c_data = convert(char(5),@c_id) +
convert(char(4),@c_d_id) +
convert(char(5),@c_w_id) +
convert(char(4),@d_id) +
convert(char(5),@w_id) +
convert(char(19),@h_amount) +
substring(@data, 1, 458)

```

```

-- update customer info

update customer set
c_data = @c_data
where c_id = @c_id and
c_w_id = @c_w_id and
c_d_id = @c_d_id

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

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

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

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

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

-- create history record

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

commit tran p

-- return data to client

select @c_id,
@c_last,
@datetime,
@w_street_1,

```

```

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

```

go

STOCKLEV.SQL

```

-- File: STOCKLEV.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.00
-- Copyright Microsoft, 1996
-- Purpose: Creates stock level transaction stored procedure

```

```

use tpcc
go

```

```

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

```

```

create proc tpcc_stocklevel @w_id smallint,
                           @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

TABLES.SQL

```

-- File: TABLES.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.00
-- Copyright Microsoft, 1996
-- Purpose: Creates TPC-C tables

```

```

use tpcc
go

```

```

if exists ( select name from sysobjects where name = 'warehouse' )
drop table warehouse

```

```

go
create table warehouse
(
    w_id smallint,
    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 misc_fg
go

```

```

if exists ( select name from sysobjects where name = 'district' )
drop table district

```

```

go
create table district
(
    d_id tinyint,
    d_w_id smallint,
    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 misc_fg
go

```

```

if exists ( select name from sysobjects where name = 'customer' )
drop table customer

```

```

go
create table customer
(
    c_id int,
    c_d_id tinyint,
    c_w_id smallint,
    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                char(500)
    ) on big_fg
go

if exists ( select name from sysobjects where name = 'history' )
    drop table history
go
create table history
(
    h_c_id                int,
    h_c_d_id              tinyint,
    h_c_w_id              smallint,
    h_d_id                tinyint,
    h_w_id                smallint,
    h_date                datetime,
    h_amount              numeric(6,2),
    h_data                char(24)
) on misc_fg
go

if exists ( select name from sysobjects where name = 'new_order' )
    drop table new_order
go
create table new_order
(
    no_o_id                int,
    no_d_id                tinyint,
    no_w_id                smallint
) on misc_fg
go

if exists ( select name from sysobjects where name = 'orders' )
    drop table orders
go
create table orders
(
    o_id                    int,
    o_d_id                  tinyint,
    o_w_id                  smallint,
    o_c_id                  int,
    o_entry_d              datetime,
    o_carrier_id           tinyint,
    o_ol_cnt                tinyint,
    o_all_local            tinyint
) on misc_fg
go

if exists ( select name from sysobjects where name = 'order_line' )

```

```

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

if exists ( select name from sysobjects where name = 'item' )
    drop table item
go
create table item
(
    i_id                    int,
    i_im_id                 int,
    i_name                  char(24),
    i_price                 numeric(5,2),
    i_data                  char(50)
) on misc_fg
go

if exists ( select name from sysobjects where name = 'stock' )
    drop table stock
go
create table stock
(
    s_i_id                int,
    s_w_id                smallint,
    s_quantity            smallint,
    s_dist_01             char(24),
    s_dist_02             char(24),
    s_dist_03             char(24),
    s_dist_04             char(24),
    s_dist_05             char(24),
    s_dist_06             char(24),
    s_dist_07             char(24),
    s_dist_08             char(24),
    s_dist_09             char(24),
    s_dist_10            char(24),
    s_ytd                 int,
    s_order_cnt           smallint,
    s_remote_cnt          smallint,
    s_data                char(50)
) on big_fg
go

```

Database Loader Source

TPCC.H

```
// File: TPC.H
// Microsoft TPC-C Kit Ver. 4.00
// Copyright Microsoft, 1996, 1997, 1998
// Purpose: Header file for TPC-C database loader

// Build number of TPC Benchmark Kit
#define TPCKIT_VER "4.00"

// 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 DEFILDPACKSIZE 32768
#define ORDERS_PER_DIST 3000
#define LOADER_RES_FILE "logs\\load.out"
#define LOADER_NURAND_C 123
#define DEF_STARTING_WAREHOUSE 1
#define BUILD_INDEX data and indexes 1 // build both
#define INDEX_ORDER 1 // build
indexes before load
```

```
#define SCALE_DOWN 0 // build a normal
scale database
#define INDEX_SCRIPT_PATH "scripts"

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

// 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. 4.00
// Copyright Microsoft, 1996, 1997, 1998
// Purpose: Source file for TPC-C database loader

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

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

// Functions declarations
void HandleErrorDBC (SQLHDBC hdbc1);

long NURand();

```

```

void LoadItem();
void LoadWarehouse();

void Stock();
void District();

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

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

// Shared memory structures
typedef struct
{
    long ol;
    long ol_i_id;
    short 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;
    short 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;
    short 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          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         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;

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

int main(int argc, char **argv)
{
    DWORD        dwThreadId[MAX_MAIN_THREADS];
    HANDLE        hThread[MAX_MAIN_THREADS];
    FILE          *fLoader;
    char          buffer[255];
    int          i;

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

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

    // process command line arguments

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

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

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

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

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

```



```

    }
    else
    {
        max_items = MAXITEMS;
        customers_per_district = CUSTOMERS_PER_DISTRICT;
        orders_per_district = ORDERS_PER_DISTRICT;
        first_new_order = 2100;
        last_new_order = 3000;
    }

    // open connections to SQL Server
    OpenConnections();

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

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

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

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

    main_time_start = (TimeNow() / MILLI);

    // start parallel load threads

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

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

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

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

        hThread[1] = CreateThread(NULL,
                                0,

```

```

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

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

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

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

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

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

        hThread[3] = CreateThread(NULL,
                                0,
                                (LPTHREAD_START_ROUTINE) LoadOrders,
                                NULL,
                                0,
                                &dwThreadID[3]);

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

    // Wait for threads to finish...
    for (i=0; i<MAX_MAIN_THREADS; i++)
    {

```

```

        if (hThread[i] != NULL)
        {
            WaitForSingleObject( hThread[i], INFINITE );
            CloseHandle(hThread[i]);
            hThread[i] = NULL;
        }
    }

    main_time_end = (TimeNow() / MILLI);

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

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

    fclose(fLoader);

    SQLFreeEnv(henv);

    exit(0);

    return 0;
}

//=====
//
// Function name: LoadItem
//
//=====

void LoadItem()
{
    long        i_id;
    long        i_im_id;
    char        i_name[I_NAME_LEN+1];
    double      i_price;
    char        i_data[I_DATA_LEN+1];
    char        name[20];
    long        time_start;
    RETCODE    rc;
    DBINT      rcint;
    char        bcphint[128];

    // 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("idxitm1");

    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, (int) bcphint);
            if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);
        }

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

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

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

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

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

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

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

        MakeAlphaString(14, 24, I_NAME_LEN, i_name);

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

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

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

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

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

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

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

```

```

SQLFreeConnect(i_hdbc1);

// if build index after load
if ((aptr->build_index == 1) && (aptr->index_order == 0))
    BuildIndex("idxitmc1");
}

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

void LoadWarehouse()
{
    short 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("idxwarc1");

    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 != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcphint, "tablock, order (w_id), ROWS_PER_BATCH = %d",
aptr->num_warehouses);
        rc = bcp_control(w_hdbc1, BCPHINTS, (int) 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 = (short)aptr->starting_warehouse; w_id <= aptr->num_warehouses;
w_id++)
{
    MakeAlphaString(6,10, W_NAME_LEN, w_name);

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

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

    w_ytd = 300000.00;

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

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

```

```

}

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

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

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

stock_rows_loaded = 0;
district_rows_loaded = 0;

District();
Stock();
}

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

void District()
{
    short d_id;
    short 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 != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);
}

```

```

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

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

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

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

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

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

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

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

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

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

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

        rc = bcp_bind(w_hdbc1, (BYTE *) &d_next_o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 11);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        d_ytd = 30000.0;
}

```

```

d_next_o_id = orders_per_district+1;

time_start = (TimeNow() / MILLI);

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

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

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

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

        rc = bcp_sendrow(w_hdbc1);
        if (rc != 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;
    short 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("idxstck1");

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

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

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

rc = bcp_bind(w_hdbc1, (BYTE *) &s_i_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

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

rc = bcp_bind(w_hdbc1, (BYTE *) &s_quantity, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 3);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_01, 0, S_DIST_LEN, NULL, 0, 0, 4);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_02, 0, S_DIST_LEN, NULL, 0, 0, 5);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_03, 0, S_DIST_LEN, NULL, 0, 0, 6);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_04, 0, S_DIST_LEN, NULL, 0, 0, 7);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

```

```

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_05, 0, S_DIST_LEN, NULL, 0, 0, 8);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_06, 0, S_DIST_LEN, NULL, 0, 0, 9);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_07, 0, S_DIST_LEN, NULL, 0, 0, 10);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_08, 0, S_DIST_LEN, NULL, 0, 0, 11);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_09, 0, S_DIST_LEN, NULL, 0, 0, 12);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_10, 0, S_DIST_LEN, NULL, 0, 0, 13);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &s_ytd, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 14);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &s_order_cnt, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 15);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &s_remote_cnt, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, 16);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) s_data, 0, S_DATA_LEN, NULL, 0, 0, 17);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

s_ytd = s_order_cnt = s_remote_cnt = 0;

time_start = (TimeNow() / MILLI);

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

for (s_i_id=1; s_i_id <= max_items; s_i_id++)
{
    for (s_w_id = (short)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 != SUCCEEDED)
    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;
    short                  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];

    // 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");

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

rc = bcp_init(c_hdbc1, name, NULL, "logs\\customer.err", DB_IN);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

if ((aptr->build_index == 1) && (aptr->index_order == 1))
{
    sprintf(bcphint, "tablock, order (c_w_id, c_d_id, c_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 30000));
    rc = bcp_control(c_hdbc1, BCPHINTS, (int) 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");
rc = bcp_control(c_hdbc2, BCPHINTS, (int) 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 = (short)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");

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] = '0';
        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(500, 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;
    short       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];
    RETCODE     rc;

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_first, 0, FIRST_NAME_LEN, NULL, 0, 0, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0, MIDDLE_NAME_LEN, NULL, 0, 0, 5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_last, 0, LAST_NAME_LEN, NULL, 0, 0, 6);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0, ADDRESS_LEN, NULL, 0, 0, 7);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0, ADDRESS_LEN, NULL, 0, 0, 8);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_city, 0, ADDRESS_LEN, NULL, 0, 0, 9);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_state, 0, STATE_LEN, NULL, 0, 0, 10);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_zip, 0, ZIP_LEN, NULL, 0, 0, 11);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_phone, 0, PHONE_LEN, NULL, 0, 0, 12);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_since, 0, C_SINCE_LEN, NULL, 0,
SQLCHARACTER, 13);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_credit, 0, CREDIT_LEN, NULL, 0, 0, 14);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

```

```

rc = bcp_bind(c_hdbc1, (BYTE *) &c_credit_lim, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, 15);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) &c_discount, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, 16);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

// 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;
    short 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;
    short                 w_id;

    short                 d_id;
    DWORD                 dwThreadId[MAX_ORDER_THREADS];
    HANDLE                 hThread[MAX_ORDER_THREADS];
    char                   name[20];
    char                   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("idxordcl");
    BuildIndex("idxnodcl");
    BuildIndex("idxodlcl");
}

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

rc = bcp_init(o_hdbc1, name, NULL, "logs\\orders.err", DB_IN);
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, (int) bcphint);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
}

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

rc = bcp_init(o_hdbc2, name, NULL, "logs\\neword.err", DB_IN);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc2);

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

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

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

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

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

OrdersBufInit();

```

```

orders_time_start.time_start = (TimeNow() / MILLI);
new_order_time_start.time_start = (TimeNow() / MILLI);
order_line_time_start.time_start = (TimeNow() / MILLI);
w_id++) for (w_id = (short)aptr->starting_warehouse; w_id <= aptr->num_warehouses;
{
    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_DIST+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_DIST);

    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 12:00:00.000");
            }
        }
    }
}

//=====
//
// Function   : LoadOrdersTable
//
//=====

void LoadOrdersTable(LOADER_TIME_STRUCT *orders_time_start)
{
    int    i;
    long   o_id;
    short  o_d_id;
    short  o_w_id;
    long   o_c_id;
    short  o_carrier_id;

```

```

short      o_ol_cnt;
short      o_all_local;
char       o_entry_d[O_ENTRY_D_LEN+1];
RETCODE    rc;
DBINT      rcint;

// bind ORDER data
rc = bcp_bind(o_hdbc1, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
2);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
3);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_c_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
4);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_entry_d, 0, O_ENTRY_D_LEN, NULL, 0,
SQLCHARACTER, 5);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_carrier_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 6);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_ol_cnt, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
7);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_all_local, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 8);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

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

    FormatDate(&o_entry_d);

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

```

```

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

// 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("idxordcl");

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

//=====
//
// Function   : LoadNewOrderTable
//
//=====

void LoadNewOrderTable(LOADER_TIME_STRUCT *new_order_time_start)
{
    int      i;
    long     o_id;
    short    o_d_id;
    short    o_w_id;
    RETCODE  rc;
    DBINT    rcint;

    // Bind NEW-ORDER data

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

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

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

for (i = first_new_order; i < last_new_order; i++)

```

```

    {
        o_id    = orders_buf[i].o_id;
        o_d_id  = orders_buf[i].o_d_id;
        o_w_id  = orders_buf[i].o_w_id;

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

        new_order_rows_loaded++;
        CheckForCommit(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("idxnodcl");
    }
}

//=====
//
// Function   : LoadOrderLineTable
//
//=====

void LoadOrderLineTable(LOADER_TIME_STRUCT *order_line_time_start)
{
    int     i,j;
    long    o_id;
    short   o_d_id;
    short   o_w_id;

    long    ol;
    long    ol_i_id;
    short   ol_supply_w_id;
    short   ol_quantity;
    double  ol_amount;
    char    ol_dist_info[DIST_INFO_LEN+1];
    char    ol_delivery_d[OL_DELIVERY_D_LEN+1];
    RETCODE rc;
    DBINT   rcint;

    // bind ORDER-LINE data
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

```

```

    rc = bcp_bind(o_hdbc3, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_i_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_supply_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 6);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_delivery_d, 0, OL_DELIVERY_D_LEN,
NULL, 0, SQLCHARACTER, 7);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_quantity, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 8);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

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

    rc = bcp_bind(o_hdbc3, (BYTE *) ol_dist_info, 0, DIST_INFO_LEN, NULL, 0, 0, 10);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

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

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

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

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

```

```

                rc = bcp_sendrow(o_hdbc3);
                if (rc != SUCCEEDED)
                    HandleErrorDBC(o_hdbc3);

                order_line_rows_loaded++;
                CheckForCommit(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("idxodlcl");

        }

    }

//=====
//
// Function   : GetPermutation
//
//=====
void GetPermutation(int perm[], int n)
{
    int i, r, t;

    for (i=1;i<=n;i++)
        perm[i] = i;

    for (i=1;i<=n;i++)
    {
        r = RandomNumber(i,n);
        t = perm[i];
        perm[i] = perm[r];
        perm[r] = t;
    }
}

//=====
//
// Function   : CheckForCommit
//

```

```

//=====
void CheckForCommit(HDBC hdbc,
                    HSTMT hstmt,
                    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 (%.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(o_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];

    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);
}

```

```

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 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;
}

```

TIME.C

```

//      File:                TIME.C
//
//      Microsoft TPC-C Kit Ver. 4.00
//      Copyright Microsoft, 1996, 1997, 1998
//      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;
}

```

STRINGS.C

```

//      File:                STRINGS.C
//
//      Microsoft TPC-C Kit Ver. 4.00
//      Copyright Microsoft, 1996, 1997, 1998
//      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;
    static char chArray[] =
"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
    static int chArrayMax = 61;

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

    len = RandomNumber(x, y);

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

```

RANDOM.C

```

// File:          RANDOM.C
//               Microsoft TPC-C Kit Ver. 4.00
//               Copyright Microsoft, 1996, 1997, 1998
// 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;
}

```

GETARGS.C

```

// File: GETARGS.C
// Microsoft TPC-C Kit Ver. 4.00
// Copyright Microsoft, 1996, 1997, 1998
// Purpose: Source file for command line processing

// Includes
#include "tpcc.h"

```

```

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

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

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

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

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

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

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

            case 'o':

```



```

                pargs->index_order = atol(ptr+2);
                break;
            case 'c':
                pargs->scale_down = atol(ptr+2);
                break;
            case 'd':
                pargs->index_script_path = ptr+2;
                break;
            default:
                GetArgsLoaderUsage();
                exit(-1);
                break;
        }
    }

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

    return;
}

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

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

    printf("TPCCCLR:\n\n");
    printf("Parameter                                     Default\n");
    printf("-----\n");
    printf("-W Number of Warehouses to Load                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) DEF_LDPACKSIZE);
    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);
}

```

Appendix C: Tunable Parameters

Microsoft SQL Server 7.0 SP2 Startup Parameters

```
C:\MSSQL7\BINN\SQLSERV  
-eC:\MSSQL7\LOG\ERRORLOG -x -c -t3502
```

Where:

- -c Start SQL Server independently of the Windows NT Service Control Manager
- -x Disables the keeping of CPU time and cache-hit ratio statistics
- -t3502 Prints a message to the SQL Server log at the start and end of each checkpoint

Microsoft Windows NT 4.0 Enterprise Edition Configuration Parameters

No services were disabled in the Windows NT Control Panel/Services on the Server systems.

Set Control Panel -> System -> Performance -> Forground Application Boost to Maximum

Set Control Panel -> Neteork -> Services -> Server -> Maximize Throughput For Network Applications

Microsoft Windows 2000 Configuration Parameters

No services were disabled in the Windows 2000 Control Panel/Services on the Client systems.

Boot.ini Parameters

4GB Tuning was enabled for Windows NT Server 4.0, Enterprise Edition by setting the "/3GB" switch in the boot.ini file as documented in the "Windows NT Server, Enterprise Edition Administrator's Guide and

SQL Server Stack Size

The default stack size for Microsoft SQL Server was changed using the EDITBIN utility. The EDITBIN utility ships with Microsoft Visual C++ V4.0. The command used to change the stack size is:

```
editbin /Stack:131072 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.

Compaq Device Drivers for Windows NT

The following Microsoft Windows NT device drivers were replaced with Compaq-specific device drivers:

- The Microsoft SMART-4200 Array Controller default device driver (CPQARRY2.SYS) was replaced with the Compaq SMART-4200 Array Controller ECI Driver version 1.09 for Microsoft Windows NT 4.0 (CPQSMRT2.SYS). This driver will available on the Compaq Computer Corporation World Wide Web site (www.compaq.com) by August 16, 1999.

Microsoft SQL Server 7.0 SP2 Configuration Parameters

name	minimum	maximum	config_value	run_value
affinity mask	0	2147483647	255	255
allow updates	0	1	0	0
cost threshold for parallelism	0	32767	5	5
cursor threshold	-1	2147483647	-1	-1
default language	0	9999	0	0
default sortorder id	0	255	50	50
extended memory size (MB)	0	2147483647	0	0
fill factor (%)	0	100	0	0
index create memory (KB)	704	1600000	0	0
language in cache	3	100	3	3
language neutral full-text	0	1	0	0
lightweight pooling	0	1	1	1
locks	5000	2147483647	0	0
max async IO	1	255	255	255
max degree of parallelism	0	32	1	1
max server memory (MB)	4	2147483647	3000	3000

```

max text repl size (B)
0 2147483647 65536 65536
max worker threads
10 1024 420 420
media retention
0 365 0 0
min memory per query (KB)
512 2147483647 512 512
min server memory (MB)
0 2147483647 3000 3000
nested triggers
0 1 1 1
network packet size (B)
512 65535 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 32767 32767
remote access
0 1 0 0
remote login timeout (s)
0 2147483647 5 5
remote proc trans
0 1 0 0
remote query timeout (s)
0 2147483647 0 0
resource timeout (s)
5 2147483647 10 10
scan for startup procs
0 1 0 0
set working set size
0 1 1 1
show advanced options
0 1 1 1
spin counter
1 2147483647 10000 10000
time slice (ms)
50 1000 200 200
two digit year cutoff
1753 9999 2049 2049
Unicode comparison style
0 2147483647 0 0
Unicode locale id
0 2147483647 33280 33280
user connections
0 32767 0 0
user options
0 4095 0 0

```

Internet Information Server Registry Parameters

REGEDIT4

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Parameters]
"ListenBackLog"=dword:00001f40
"DispatchEntries"=hex(7):4c,44,41,50,53,56,43,00,53,4d,54,50,53,56,43,00,4e,4e,\
54,50,53,56,43,00,00
"PoolThreadLimit"=dword:00000258
"ThreadTimeout"=dword:00200000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Performance]
"Library"="infoctrs.dll"
"Open"="OpenINFOPerformanceData"
"Close"="CloseINFOPerformanceData"
"Collect"="CollectINFOPerformanceData"
"Last Counter"=dword:00000818
"Last Help"=dword:00000819
"First Counter"=dword:000007d8
"First Help"=dword:000007d9
```

Benchcraft Profile

```
Profile: wow3240
File Path: C:\benchcrf\wow3240.pro
Version: 1.0.1
```

Number of Engines: 20

```
Name: R10P0D1
Description: R10 Proc 0 Driver 1
Directory: d:\r10p0d1.log
Machine: R10
Parameter Set: ~Default
Index: 1600000000
Seed: 60170
Configured Users: 1620
Pipe Name: DRIVER1756170218
Connect Rate: 200
Start Rate: 0
CLIENT_NURAND: 233
CPU: 0
```

```
Name: R10P1D1
Description: R10 Proc 1 Driver 1
Directory: d:\r10p1d1.log
Machine: R10
Parameter Set: ~Default
Index: 1700000000
Seed: 60170
Configured Users: 1620
Pipe Name: DRIVER1856385281
Connect Rate: 200
Start Rate: 0
CLIENT_NURAND: 233
CPU: 1
```

```
Name: R11P0D1
Description: R11 Proc 0 Driver 1
Directory: e:\r11p0d1.log
```

```
Machine: R11
Parameter Set: ~Default
Index: 1800000000
Seed: 60170
Configured Users: 1620
Pipe Name: DRIVER1956498281
Connect Rate: 200
Start Rate: 0
CLIENT_NURAND: 233
CPU: 0
```

```
Name: R11P1D1
Description: R11 Proc 1 Driver 1
Directory: e:\r11p1d1.log
Machine: R11
Parameter Set: ~Default
Index: 1900000000
Seed: 60170
Configured Users: 1620
Pipe Name: DRIVER2056588078
Connect Rate: 200
Start Rate: 0
CLIENT_NURAND: 233
CPU: 1
```

```
Name: R2P0D1
Description: R2 Proc 0 Driver 1
Directory: e:\r2p0d1.log
Machine: R2
Parameter Set: ~Default
Index: 0
Seed: 60170
Configured Users: 1620
Pipe Name: DRIVER154147125
Connect Rate: 200
Start Rate: 0
CLIENT_NURAND: 233
CPU: 0
```

```
Name: R2P1D1
Description: R2 Proc 1 Driver 1
Directory: e:\r2p1d1.log
Machine: R2
Parameter Set: ~Default
Index: 1000000000
Seed: 60170
Configured Users: 1620
Pipe Name: DRIVER254360890
Connect Rate: 200
Start Rate: 0
CLIENT_NURAND: 233
CPU: 1
```

```
Name: R3P0D1
Description: R3 Proc 0 Driver 1
Directory: e:\r3p0d1.log
Machine: R3
Parameter Set: ~Default
Index: 2000000000
Seed: 60170
Configured Users: 1620
Pipe Name: DRIVER354748359
Connect Rate: 200
```

Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 0

Name: R3P1D1
 Description: R3 Proc 1 Driver 1
 Directory: e:\r3p1dl.log
 Machine: R3
 Parameter Set: ~Default
 Index: 300000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER454843765
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 1

Name: R4P0D1
 Description: R4 Proc 0 Driver 1
 Directory: e:\r4p0dl.log
 Machine: R4
 Parameter Set: ~Default
 Index: 400000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER554934828
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 0

Name: R4P1D1
 Description: R4 Proc 1 Driver 1
 Directory: c:\r4p1dl.log
 Machine: R4
 Parameter Set: ~Default
 Index: 500000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER655096656
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 1

Name: R5P0D1
 Description: R5 Proc 0 Driver 1
 Directory: c:\r5p0dl.log
 Machine: R5
 Parameter Set: ~Default
 Index: 600000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER755208406
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 0

Name: R5P1D1
 Description: R5 Proc 1 Driver 1
 Directory: e:\r5p1dl.log

Machine: R5
 Parameter Set: ~Default
 Index: 700000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER855293750
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 1

Name: R6P0D1
 Description: R6 Proc 0 Driver 1
 Directory: e:\r6p0dl.log
 Machine: R6
 Parameter Set: ~Default
 Index: 800000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER955397796
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 0

Name: R6P1D1
 Description: R6 Proc 1 Driver 1
 Directory: e:\r6p1dl
 Machine: R6
 Parameter Set: ~Default
 Index: 900000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER1055476296
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 1

Name: R7P0D1
 Description: R7 Proc 0 Driver 1
 Directory: c:\r7p0dl.log
 Machine: R7
 Parameter Set: ~Default
 Index: 1000000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER1155596796
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 0

Name: R7P1D1
 Description: R7 Proc 1 Driver 1
 Directory: c:\r7p1dl.log
 Machine: R7
 Parameter Set: ~Default
 Index: 1100000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER1255703656
 Connect Rate: 200

Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 1

Name: R8P0D1
 Description: R8 Proc 0 Driver 1
 Directory: c:\r8p0dl.log
 Machine: R8
 Parameter Set: ~Default
 Index: 1200000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER1355786531
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 0

Name: R8P1D1
 Description: R8 Proc 1 Driver 1
 Directory: c:\r8p1dl.log
 Machine: R8
 Parameter Set: ~Default
 Index: 1300000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER1455889781
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 1

Name: R9P0D1
 Description: R9 Proc 0 Driver 1
 Directory: e:\r9p0dl.log
 Machine: R9
 Parameter Set: ~Default
 Index: 1400000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER155599046
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 0

Name: R9P1D1
 Description: R9 Proc 1 Driver 1
 Directory: e:\r9p1dl.log
 Machine: R9
 Parameter Set: ~Default
 Index: 1500000000
 Seed: 60170
 Configured Users: 1620
 Pipe Name: DRIVER1656083468
 Connect Rate: 200
 Start Rate: 0
 CLIENT_NURAND: 233
 CPU: 1

Number of User groups: 20
 Driver Engine: R2P0D1

IIS Server: CLIENT1
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 1 - 162
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R2P1D1
IIS Server: CLIENT1
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 163 - 324
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R11P0D1
IIS Server: CLIENT5
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 2917 - 3078
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R3P1D1
IIS Server: CLIENT1
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 487 - 648
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R11P1D1
IIS Server: CLIENT5
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 3079 - 3240
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R3P0D1
IIS Server: CLIENT1
SQL Server: wow_ip
User: sa

Protocol: Html
w_id Range: 325 - 486
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R5P0D1
IIS Server: CLIENT2
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 973 - 1134
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R4P0D1
IIS Server: CLIENT2
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 649 - 810
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R4P1D1
IIS Server: CLIENT2
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 811 - 972
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R6P1D1
IIS Server: CLIENT3
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 1459 - 1620
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R5P1D1
IIS Server: CLIENT2
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 1135 - 1296
w_id Max Warehouse: 3240

Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R7P1D1
IIS Server: CLIENT3
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 1783 - 1944
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R6P0D1
IIS Server: CLIENT3
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 1297 - 1458
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R7P0D1
IIS Server: CLIENT3
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 1621 - 1782
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R9P0D1
IIS Server: CLIENT4
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 2269 - 2430
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1
Scale Down: No

Driver Engine: R8P0D1
IIS Server: CLIENT4
SQL Server: wow_ip
User: sa
Protocol: Html
w_id Range: 1945 - 2106
w_id Max Warehouse: 3240
Scale: Normal
User Count: 1620
District id: 1

Scale Down: No
 Driver Engine: R8P1D1
 IIS Server: CLIENT4
 SQL Server: wow_ip
 User: sa
 Protocol: Html
 w_id Range: 2107 - 2268
 w_id Max Warehouse: 3240
 Scale: Normal
 User Count: 1620
 District id: 1
 Scale Down: No

Driver Engine: R10P1D1
 IIS Server: CLIENT5
 SQL Server: wow_ip
 User: sa
 Protocol: Html
 w_id Range: 2755 - 2916
 w_id Max Warehouse: 3240
 Scale: Normal
 User Count: 1620
 District id: 1
 Scale Down: No

Driver Engine: R9P1D1
 IIS Server: CLIENT4
 SQL Server: wow_ip
 User: sa
 Protocol: Html
 w_id Range: 2431 - 2592
 w_id Max Warehouse: 3240
 Scale: Normal
 User Count: 1620
 District id: 1
 Scale Down: No

Driver Engine: R10P0D1
 IIS Server: CLIENT5
 SQL Server: wow_ip
 User: sa
 Protocol: Html
 w_id Range: 2593 - 2754
 w_id Max Warehouse: 3240
 Scale: Normal
 User Count: 1620
 District id: 1
 Scale Down: No

Number of Parameter Sets: 12

1.01

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.12	18.01		New Order	5.00	44.78
12.12	3.01		Payment	5.00	43.05
			Delivery	5.00	4.05
			Stock Level	20.00	4.07
			Order Status	5.00	4.05

5.05	2.01		Delivery	5.00	4.05
5.05	2.01		Stock Level	20.00	4.07
10.10	2.01		Order Status	5.00	4.05

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.24	18.01		New Order	5.00	44.78
12.24	3.01		Payment	5.00	43.05
5.10	2.01		Delivery	5.00	4.05
5.10	2.01		Stock Level	20.00	4.07
10.20	2.01		Order Status	5.00	4.05

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.48	18.01		New Order	5.00	44.78
12.48	3.01		Payment	5.00	43.05
5.20	2.01		Delivery	5.00	4.05
5.20	2.01		Stock Level	20.00	4.07
10.40	2.01		Order Status	5.00	4.05

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.72	18.01		New Order	5.00	44.78
12.72	3.01		Payment	5.00	43.05
5.30	2.01		Delivery	5.00	4.05
5.30	2.01		Stock Level	20.00	4.07
10.60	2.01		Order Status	5.00	4.05

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.12	18.01		New Order	5.00	44.78
12.12	3.01		Payment	5.00	43.05
			Delivery	5.00	4.05
			Stock Level	20.00	4.07
			Order Status	5.00	4.05

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.96	18.01		New Order	5.00	44.78
12.96	3.01		Payment	5.00	43.05
5.40	2.01		Delivery	5.00	4.05
5.40	2.01		Stock Level	20.00	4.07
10.80	2.01		Order Status	5.00	4.05

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
13.20	18.01		New Order	5.00	44.78
13.20	3.01		Payment	5.00	43.05
5.50	2.01		Delivery	5.00	4.05
5.50	2.01		Stock Level	20.00	4.07
11.00	2.01		Order Status	5.00	4.05

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
14.40	18.01		New Order	5.00	44.78
14.40	3.01		Payment	5.00	43.05
6.00	2.01		Delivery	5.00	4.05
6.00	2.01		Stock Level	20.00	4.07
12.00	2.01		Order Status	5.00	4.05

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
16.80	18.01		New Order	5.00	44.78
16.80	3.01		Payment	5.00	43.05
7.00	2.01		Delivery	5.00	4.05
7.00	2.01		Stock Level	20.00	4.07
14.00	2.01		Order Status	5.00	4.05

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
19.20	18.01		New Order	44.78	
19.20	3.01		Payment	43.05	0.10
8.00	2.01		Delivery	4.05	0.10
8.00	2.01		Stock Level	4.07	0.10
16.00	2.01		Order Status	4.05	0.10

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
21.60	18.01		New Order	44.78	0.10
21.60	3.01		Payment	43.05	0.10
9.00	2.01		Delivery	4.05	0.10
9.00	2.01		Stock Level	4.07	0.10
18.00	2.01		Order Status	4.05	0.10

~Default
Default Parameter Set

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.05	18.01		New Order	10.00	0.10
12.05	3.01		Payment	10.00	0.10
5.05	2.01		Delivery	1.00	0.10
5.05	2.01		Stock Level	1.00	0.10
10.05	2.01		Order Status	1.00	0.10

2.0

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
24.00	18.01		New Order	44.78	0.10
24.00	3.01		Payment	43.05	0.10

10.00	2.01	Delivery	0.10	5.00	4.05	0.10
10.00	2.01	Stock Level	0.10	20.00	4.07	0.10
20.00	2.01	Order Status	0.10	5.00	4.05	0.10

World Wide Web Service Registry Parameters

REGEDIT4

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC]
"Type"=dword:00000020
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,57,49,4e,4e,54,5c,53,79,73,74,65,6d,33,32,5c,69,6e,\
```

```
65,74,73,72,76,5c,69,6e,65,74,69,6e,66,6f,2e,65,78,65,00
"DisplayName"="World Wide Web Publishing Service"
"DependOnService"=hex(7):49,49,53,41,44,4d,49,4e,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"
"Description"="Provides Web connectivity and administration through the Internet Information Services snap-in."
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\ASP]
"NOTE"="This is for backward compatibility only."
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\ASP\Parameters]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters]
"MajorVersion"=dword:00000005
"MinorVersion"=dword:00000000
"InstallPath"="C:\WINNT\System32\inetrv"
"CertMapList"="C:\WINNT\System32\inetrv\iisrmap.dll"
"AccessDeniedMessage"="Error: Access is Denied."
"AcceptExOutstanding"=dword:00001f40
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch\AdvancedDataFactory]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch\RDS\Server.DataFactory]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\Script Map]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\Virtual Roots]
"/"="C:\inetpub\wwwroot,,215"
"/IISAdmin"="C:\WINNT\System32\inetrv\iisadmin,,1"
"/IISSamples"="c:\inetpub\iissamples,,1"
"/MSADC"="c:\program files\common files\system\msadc,,1"
"/IISHelp"="c:\winnt\help\iishelp,,1"
"/Scripts"="c:\inetpub\scripts,,1"
"/Mail"="C:\inetpub\Mail,,1"
"/MailDocs"="C:\WINNT\Help\Mail,,1"
"/News"="C:\inetpub\News,,1"
"/NewsDocs"="C:\WINNT\Help\News,,1"
"/PBServer"="C:\Program Files\Phone Book Service\Bin,,1"
"/PBServerData"="C:\Program Files\Phone Book Service\Data,,1"
"/Rpc"="C:\WINNT\System32\RpcProxy,,1"
"/Printers"="C:\WINNT\web\printers,,201"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Performance]
"Library"="w3ctrs.dll"
"Open"="OpenW3PerformanceData"
"Close"="CloseW3PerformanceData"
"Collect"="CollectW3PerformanceData"
"Last Counter"=dword:000008c6
"Last Help"=dword:000008c7
"First Counter"=dword:00000826
"First Help"=dword:00000827
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Security]
"Security"=hex:01,00,14,80,bc,00,00,00,c8,00,00,00,14,00,00,00,30,00,00,00,02,\
```

```
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
```

```
00,00,02,00,8c,00,05,00,00,00,00,00,18,00,8d,01,02,00,01,01,00,00,00,00,00,\
```

```
05,0b,00,00,00,54,00,31,00,00,00,1c,00,fd,01,02,00,01,02,00,00,00,00,00,05,\
```

```
20,00,00,00,23,02,00,00,54,00,00,00,00,00,1c,00,ff,01,0f,00,01,02,00,00,00,\
```

```
00,00,05,20,00,00,00,20,02,00,00,54,00,00,00,00,00,1c,00,ff,01,0f,00,01,02,\
```

```
00,00,00,00,00,05,20,00,00,00,25,02,00,00,54,00,00,00,00,00,18,00,fd,01,02,\
```

```
00,01,01,00,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,00,00,05,\
```

```
12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Enum]
"0"="Root\LEGACY_W3SVC\0000"
"Count"=dword:00000001
```

"NextInstance"=dword:00000001

Server Registry Parameters

REGEDIT4

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control]
"WaitToKillServiceTimeout"="20000"
"CurrentUser"="USERNAME"
"SystemStartOptions"="3GB"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\BootVerificationProgram]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E968-E325-11CE-BF01-08002BE10318}]
@="Display adapters"
"Class"="Display"
"Icon"="-1"
"Installer32"="Desk.Cpl,DisplayClassInstaller"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E968-E325-11CE-BF01-08002BE10318}\0000]
"InfPath"="ati.inf"
"InfSection"="ati"
"ProviderName"="ATI Technologies Inc."
"DriverDesc"="ATI Technologies Inc. 3D RAGE IIC"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E96B-E325-11CE-BF01-08002BE10318}]
@="Keyboard"
"Class"="Keyboard"
"Icon"="-3"
"Installer32"="SysSetup.Dll,KeyboardClassInstaller"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E96B-E325-11CE-BF01-08002BE10318}\0000]
"InfPath"="keyboard.inf"
"InfSection"="STANDARD_Inst"
"ProviderName"="Microsoft"
"DriverDesc"="PC/AT Enhanced Keyboard (101/102-Key)"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E96B-E325-11CE-BF01-08002BE10318}\0001]
"InfPath"="keyboard.inf"
"InfSection"="STANDARD_Inst"
"ProviderName"="Microsoft"
"DriverDesc"="PC/AT Enhanced Keyboard (101/102-Key)"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E96C-E325-11CE-BF01-08002BE10318}]
@="Sound, video and game controllers"
"Class"="MEDIA"
"Icon"="3004"
"Installer32"="MmSys.Cpl,MediaClassInstaller"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E96D-E325-11CE-BF01-08002BE10318}]
@="Modem"
"Class"="Modem"
"Default Service"="Modem"
"Icon"="0"
"Installer32"="Modem.Cpl,ClassInstall32"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E96F-E325-11CE-BF01-08002BE10318}]
@="Mouse"
"Class"="Mouse"
"Icon"="-2"
"Installer32"="SysSetup.Dll,MouseClassInstaller"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E96F-E325-11CE-BF01-08002BE10318}\0000]
"InfPath"="msmouse.inf"
"InfSection"="PS2_Inst"
"ProviderName"="Microsoft"
"DriverDesc"="Microsoft PS/2 Port Mouse"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E96F-E325-11CE-BF01-08002BE10318}\0001]
"InfPath"="msmouse.inf"
"InfSection"="PS2_Inst"
"ProviderName"="Microsoft"
"DriverDesc"="Microsoft PS/2 Port Mouse"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E96F-E325-11CE-BF01-08002BE10318}\0002]
"InfPath"="msmouse.inf"
"InfSection"="PS2_Inst"
"ProviderName"="Microsoft"
"DriverDesc"="Logitech PS/2 Port Mouse"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E972-E325-11CE-BF01-08002BE10318}]
@="Network adapters"
"Class"="Net"
"Icon"="-5"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E978-E325-11CE-BF01-08002BE10318}]
@="Ports (COM & LPT)"
"Class"="Ports"
"Installer32"="Ports.Cpl,PortsClassInstaller"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E979-E325-11CE-BF01-08002BE10318}]
@="Printer"
"Class"="Printer"
"Icon"="-4"
"NoDisplayClass"="1"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E97B-E325-11CE-BF01-08002BE10318}]
@="SCSI controllers"
"Class"="SCSIAdapter"
"Icon"="-10"
"Installer32"="SysSetup.Dll,ScsiClassInstaller"
"LegacyInfoOption"="SCSI"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E97B-E325-11CE-BF01-08002BE10318}\0000]
"InfPath"="scsi.inf"
"InfSection"="atapi_Inst"
"ProviderName"="Microsoft"
"DriverDesc"="IDE CD-ROM (ATAPI 1.2)/Dual-channel PCI IDE Controller"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E97B-E325-11CE-BF01-08002BE10318}\0001]
"InfPath"="fastscsi.inf"
"InfSection"="cpq32fs2_Inst"
"ProviderName"="%Cpq%"
"DriverDesc"="Compaq SCSI Controllers"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E97B-E325-11CE-BF01-08002BE10318}\0003]
"InfPath"="oem0.inf"
"InfSection"="CPQSMRT2"
"ProviderName"="Microsoft"
"DriverDesc"="Compaq SMART-2 Array Controllers ECI Driver"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E97E-E325-11CE-BF01-08002BE10318}]
@="Other devices"
"Class"="Unknown"
"Icon"="-18"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{6B807884-7D21-11CF-801C-08002BE10318}]
@="Tape drives"
"Class"="TapeDrive"
"Icon"="1610"
"Installer32"="SysSetup.Dll,TapeClassInstaller"
"LegacyInfoOption"="TAPE"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\ComputerName]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\ComputerName\ComputerName]
"ComputerName"="WOW"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\ComputerName\ActiveComputerName]
"ComputerName"="WOW"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\CrashControl]
"LogEvent"=dword:00000001
"SendAlert"=dword:00000000
"CrashDumpEnabled"=dword:00000000
"AutoReboot"=dword:00000000
"DumpFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,44,4d,45,4d,4f,52,59,2e,\
44,4d,50,00
"Overwrite"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\FileSystem]
"Win31FileSystem"=dword:00000000
```



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"NtfsDisable8dot3NameCreation"=dword:00000000
"Win95TruncatedExtensions"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
GraphicsDrivers]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
GraphicsDrivers\DCI]
"Timeout"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
GroupOrderList]
"System Bus Extender"=hex:01,00,00,00,01,00,00,00
"SCSI
miniport"=hex:29,00,00,00,00,01,00,00,01,01,00,00,19,
00,00,00,01,00,00,\
00,02,00,00,00,03,00,00,00,04,00,00,00,05,00,00,06,
,00,00,00,07,00,00,00,\
08,00,00,00,09,00,00,00,0a,00,00,00,0b,00,00,0c,00,
00,00,0d,00,00,00,0e,\
00,00,00,0f,00,00,00,10,00,00,00,11,00,00,00,12,00,00,
,00,13,00,00,00,14,00,\
00,00,15,00,00,00,16,00,00,00,17,00,00,00,1a,00,00,00,
,18,00,00,00,1b,00,00,\
00,1c,00,00,00,1d,00,00,00,1e,00,00,00,1f,00,00,00,20,
00,00,00,21,00,00,00,\
24,00,00,00,25,00,00,00,26,00,00,00,21,00,00,00,02,01,
,00,00,22,00,00,00
"Primary
Disk"=hex:04,00,00,00,01,00,00,00,02,00,00,00,03,00,0
0,00,04,00,00,00
"Base"=hex:0e,00,00,00,0e,00,00,00,01,00,00,00,02,00,
00,00,03,00,00,00,04,00,\
00,00,05,00,00,00,06,00,00,00,07,00,00,00,08,00,00,00,
,09,00,00,00,0a,00,00,\
00,0b,00,00,00,0c,00,00,00,0d,00,00,00
"Keyboard
Port"=hex:02,00,00,00,02,00,00,00,01,00,00,00
"Pointer
Port"=hex:03,00,00,00,01,00,00,00,02,00,00,00,03,00,0
0,00
"Keyboard Class"=hex:01,00,00,00,01,00,00,00
"Pointer Class"=hex:01,00,00,00,01,00,00,00
"Video Init"=hex:01,00,00,00,01,00,00,00
"Video"=hex:01,00,00,00,01,00,00,00
"Video Save"=hex:01,00,00,00,01,00,00,00
"Ndis"=hex:09,00,00,00,01,00,00,00,02,00,00,00,03,00,
00,00,04,00,00,00,05,00,\
00,00,06,00,00,00,07,00,00,00,08,00,00,00,09,00,00,00
"Filter"=hex:06,00,00,00,00,01,00,00,00,02,00,00,00,03,0
0,00,00,04,00,00,00,05,00,\
00,00,06,00,00,00
"Parallel arbitrator"=hex:01,00,00,00,01,00,00,00

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"Extended
base"=hex:04,00,00,00,01,00,00,00,02,00,00,00,03,00,0
0,00,04,00,00,\
00
"SpoolerGroup"=hex:02,00,00,00,01,00,00,00,02,00,00,0
0
"SCSI
Class"=hex:03,00,00,00,01,00,00,00,02,00,00,00,03,00,
00,00
"SCSI CDROM
Class"=hex:02,00,00,00,01,00,00,00,02,00,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
IDConfigDB]
"CurrentConfig"=dword:00000001
"PropertyProviders"=hex(7):70,72,6f,66,65,78,74,2e,64,
,6c,6c,00,00
"UserWaitInterval"=dword:0000001e
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
IDConfigDB\Hardware Profiles]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
IDConfigDB\Hardware Profiles\0001]
"FriendlyName"="Original Configuration"
"PreferenceOrder"=dword:00000000
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layout]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layout\DosKeybCodes]
"0000080c"="be"
"00000813"="be"
"00000402"="bg"
"00000416"="br"
"00000c0c"="cf"
"00000405"="cz"
"0000041b"="sl"
"00000406"="dk"
"0000040b"="su"
"0000040c"="fr"
"00000408"="gk"
"00010408"="gk"
"00020408"="gk"
"00000407"="gr"
"0000040e"="hu"
"00000410"="it"
"00010410"="it"
"0000080a"="la"
"00000413"="nl"
"00000414"="no"
"00000415"="pl"
"00010415"="pl"
"00000816"="po"
"00000418"="ro"
"0000040a"="sp"
"0001040a"="sp"
"0000041d"="sv"
"0000100c"="sf"
"00000807"="sg"
"0000041e"="tr"
"0001041e"="tr"

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```

"00000809"="uk"
"00000409"="us"
"0000041a"="yu"
"00000424"="yu"
"00010409"="dv"
"00020409"="us"
"00030409"="usl"
"00040409"="usr"
"00001009"="us"
"00010c0c"="cf"
"0000040e"="is"
"00000419"="ru"
"0000041c"="us"
"00000422"="us"
"00000423"="us"
"00000425"="us"
"00000426"="us"
"00000427"="us"
"00000c1a"="us"
"00001809"="us"
"00010402"="us"
"00010405"="cz"
"00010407"="gr"
"00010419"="ru"
"0001041b"="sl"
"00010426"="us"
"00010c1a"="us"
"00050408"="gk"
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layout\DosKeybIDs]
"0000041e"="179"
"0001041e"="440"
"00000410"="141"
"00010410"="142"
"00010408"="220"
"00020408"="319"
"00010415"="214"
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00000402]
"Layout Text"="Bulgarian"
"Layout File"="KBDBU.DLL"
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00000405]
"Layout Text"="Czech"
"Layout File"="KBDCZ.DLL"
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00000406]
"Layout Text"="Danish"
"Layout File"="KBDDA.DLL"
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00000407]
"Layout Text"="German"
"Layout File"="KBDBGR.DLL"

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000408]
 "Layout Text"="Greek"
 "Layout File"="KBDHE.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000409]
 "Layout Text"="US"
 "Layout File"="KBDUS.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000040A]
 "Layout Text"="Spanish"
 "Layout File"="KBDSP.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000040B]
 "Layout Text"="Finnish"
 "Layout File"="KBDFT.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000040C]
 "Layout Text"="French"
 "Layout File"="KBDFR.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000040E]
 "Layout Text"="Hungarian"
 "Layout File"="KBDHU.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000040F]
 "Layout Text"="Icelandic"
 "Layout File"="KBDIC.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000410]
 "Layout Text"="Italian"
 "Layout File"="KBDIT.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000413]
 "Layout Text"="Dutch"
 "Layout File"="KBDNE.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000414]
 "Layout Text"="Norwegian"
 "Layout File"="KBDNO.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000415]
 "Layout Text"="Polish (Programmers)"
 "Layout File"="KBDPL1.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000416]
 "Layout Text"="Brazilian (ABNT)"
 "Layout File"="KBDPR.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000418]
 "Layout Text"="Romanian"

"Layout File"="KBDRO.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000419]
 "Layout Text"="Russian"
 "Layout File"="KBDRU.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000041a]
 "Layout Text"="Croatian"
 "Layout File"="KBDRC.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000041B]
 "Layout Text"="Slovak"
 "Layout File"="KBDSD.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000041C]
 "Layout Text"="Albanian"
 "Layout File"="KBDAL.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000041D]
 "Layout Text"="Swedish"
 "Layout File"="KBDSD.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000041F]
 "Layout Text"="Turkish Q"
 "Layout File"="KBDTUQ.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000422]
 "Layout Text"="Ukrainian"
 "Layout File"="KBDUR.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000423]
 "Layout Text"="Belarusian"
 "Layout File"="KBDLRL.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000424]
 "Layout Text"="Slovenian"
 "Layout File"="KBDRC.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000425]
 "Layout Text"="Estonian"
 "Layout File"="KBDST.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000426]
 "Layout Text"="Latvian"
 "Layout File"="KBDLV.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000427]
 "Layout Text"="Lithuanian"
 "Layout File"="KBDLT.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000807]
 "Layout Text"="Swiss German"
 "Layout File"="KBDG.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000809]
 "Layout Text"="United Kingdom"
 "Layout File"="KBDUK.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000080A]
 "Layout Text"="Latin American"
 "Layout File"="KBDLA.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000080C]
 "Layout Text"="Belgian French"
 "Layout File"="KBDDE.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000813]
 "Layout Text"="Belgian Dutch"
 "Layout File"="KBDDE.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000816]
 "Layout Text"="Portuguese"
 "Layout File"="KBDPO.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000C0C]
 "Layout Text"="Canadian French"
 "Layout File"="KBDPC.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00000C1A]
 "Layout Text"="Serbian (Cyrillic)"
 "Layout File"="KBDYCC.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00001009]
 "Layout Text"="Canadian English (Multilingual)"
 "Layout File"="KBDCA.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\0000100C]
 "Layout Text"="Swiss French"
 "Layout File"="KBDSD.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00001809]
 "Layout Text"="Irish"
 "Layout File"="KBDIR.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00010402]
 "Layout Text"="Bulgarian (Latin)"
 "Layout File"="KBDUS.DLL"
 "Layout Id"="0004"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Keyboard Layouts\00010405]

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"Layout Text"="Czech (QWERTY)"
"Layout File"="KBDCZ1.DLL"
"Layout Id"="0005"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00010407]
"Layout Text"="German (IBM)"
"Layout File"="KBDCGR1.DLL"
"Layout Id"="0012"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00010408]
"Layout Text"="Greek (220)"
"Layout File"="KBDHE220.DLL"
"Layout Id"="0016"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00010409]
"Layout Text"="US-Dvorak"
"Layout File"="KBDDV.DLL"
"Layout Id"="0002"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\0001040A]
"Layout Text"="Spanish variation"
"Layout File"="KBDES.DLL"
"Layout Id"="0086"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\0001040E]
"Layout Text"="Hungarian 101-key"
"Layout File"="KBDHU1.DLL"
"Layout Id"="0006"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00010410]
"Layout Text"="Italian (142)"
"Layout File"="KBDIT142.DLL"
"Layout Id"="0003"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00010415]
"Layout Text"="Polish (214)"
"Layout File"="KBDPL.DLL"
"Layout Id"="0007"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00010419]
"Layout Text"="Russian (Typewriter)"
"Layout File"="KBDRU1.DLL"
"Layout Id"="0008"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\0001041B]
"Layout Text"="Slovak (QWERTY)"
"Layout File"="KBDSL1.DLL"
"Layout Id"="0013"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\0001041F]
"Layout Text"="Turkish F"
"Layout File"="KBDTUF.DLL"
"Layout Id"="0014"

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00010426]
"Layout Text"="Latvian (QWERTY)"
"Layout File"="KBDLV1.DLL"
"Layout Id"="0015"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00010C0C]
"Layout Text"="Canadian French (Multilingual)"
"Layout File"="KBDCA.DLL"
"Layout Id"="0085"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00010C1A]
"Layout Text"="Serbian (Latin)"
"Layout File"="KBDVCL.DLL"
"Layout Id"="0009"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00011009]
"Layout File"="kbcan.dll"
"Layout Id"="0020"
"Layout Text"="Canadian Standard"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00020408]
"Layout Text"="Greek (319)"
"Layout File"="KBDHE319.DLL"
"Layout Id"="0018"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00020409]
"Layout Text"="US-International"
"Layout File"="KBDUSX.DLL"
"Layout Id"="0001"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00030408]
"Layout Text"="Greek (220) Latin"
"Layout File"="KBDHELA2.DLL"
"Layout Id"="0017"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00030409]
"Layout Text"="US-Dvorak for left hand"
"Layout File"="KBDUSL.DLL"
"Layout Id"="001A"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00040408]
"Layout Text"="Greek (319) Latin"
"Layout File"="KBDHELA3.DLL"
"Layout Id"="0011"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00040409]
"Layout Text"="US-Dvorak for right hand"
"Layout File"="KBDUSR.DLL"
"Layout Id"="001B"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Keyboard Layouts\00050408]

```

```

"Layout Text"="Greek Latin"
"Layout File"="KBDGKL.DLL"
"Layout Id"="0019"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Lsa]
"Authentication
Packages"=hex(7):6d,73,76,31,5f,30,00,00
"Bounds"=hex:00,30,00,00,00,20,00,00
"Notification
Packages"=hex(7):46,50,4e,57,43,4c,4e,54,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Lsa\AccessProviders]
"ProviderOrder"=hex(7):57,69,6e,64,6f,77,73,20,4e,54,
20,41,63,63,65,73,73,20,\
50,72,6f,76,69,64,65,72,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Lsa\AccessProviders\Windows NT Access Provider]
"ProviderPath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,7
4,25,5c,73,79,73,74,65,6d,\
33,32,5c,6e,74,6d,61,72,74,61,2e,64,6c,6c,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Lsa\MSV1_0]
"Auth1"="FPNWCLNT"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
MediaProperties]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
MediaProperties\PrivateProperties]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
MediaProperties\PrivateProperties\MIDI]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
MediaProperties\PrivateProperties\MIDI\Schemes]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
MediaProperties\PrivateProperties\MIDI\Schemes\Default]
"Channels"=dword:0000ffff

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
MediaResources]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
MediaResources\MIDI]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
MediaResources\NonGeneralMIDI\DriverList]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
NetworkProvider]

```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
NetworkProvider\Order]
"ProviderOrder"="LanmanWorkstation"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Nls]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Nls\CodePage]
```

```
"1250"="c_1250.nls"
"1251"="c_1251.nls"
"1252"="c_1252.nls"
"1253"="c_1253.nls"
"1254"="c_1254.nls"
"1255"="c_1255.nls"
"1256"="c_1256.nls"
"1257"="c_1257.nls"
"1258"="c_1258.nls"
"437"="c_437.nls"
"737"=""
"775"=""
"850"="c_850.nls"
"852"=""
"855"=""
"857"=""
"860"=""
"861"=""
"863"=""
"865"=""
"866"=""
"869"=""
"10000"="c_10000.nls"
"10006"=""
"10007"=""
"10029"=""
"10079"=""
"10081"=""
"37"=""
"500"=""
"875"=""
"1026"=""
"20261"="c_20261.nls"
"ACP"="1252"
"OEMCP"="437"
"MACCP"="10000"
"OEMHAL"="vgaoem.fon"
"20866"="c_20866.nls"
"28592"="c_28592.nls"
"28595"="c_28595.nls"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Nls\Language]
```

```
"0409"="l_intl.nls"
"0809"="l_intl.nls"
"0c09"="l_intl.nls"
"1009"="l_intl.nls"
"1409"="l_intl.nls"
"1809"="l_intl.nls"
"1c09"="l_intl.nls"
"2009"="l_intl.nls"
"2409"="l_intl.nls"
"2809"="l_intl.nls"
"2c09"="l_intl.nls"
```

```
"0402"="l_intl.nls"
"0405"="l_intl.nls"
"0406"="l_intl.nls"
"0407"="l_intl.nls"
"0807"="l_intl.nls"
"0c07"="l_intl.nls"
"1007"="l_intl.nls"
"1407"="l_intl.nls"
"0408"="l_intl.nls"
"040a"="l_intl.nls"
"080a"="l_intl.nls"
"0c0a"="l_intl.nls"
"100a"="l_intl.nls"
"140a"="l_intl.nls"
"180a"="l_intl.nls"
"1c0a"="l_intl.nls"
"200a"="l_intl.nls"
"240a"="l_intl.nls"
"280a"="l_intl.nls"
"2c0a"="l_intl.nls"
"300a"="l_intl.nls"
"340a"="l_intl.nls"
"380a"="l_intl.nls"
"3c0a"="l_intl.nls"
"400a"="l_intl.nls"
"440a"="l_intl.nls"
"480a"="l_intl.nls"
"4c0a"="l_intl.nls"
"500a"="l_intl.nls"
"040b"="l_intl.nls"
"040c"="l_intl.nls"
"080c"="l_intl.nls"
"0c0c"="l_intl.nls"
"100c"="l_intl.nls"
"140c"="l_intl.nls"
"040e"="l_intl.nls"
"040f"="l_intl.nls"
"0410"="l_intl.nls"
"0810"="l_intl.nls"
"0413"="l_intl.nls"
"0813"="l_intl.nls"
"0414"="l_intl.nls"
"0814"="l_intl.nls"
"0415"="l_intl.nls"
"0416"="l_intl.nls"
"0816"="l_intl.nls"
"0418"="l_intl.nls"
"0419"="l_intl.nls"
"041a"="l_intl.nls"
"081a"="l_intl.nls"
"0c1a"="l_intl.nls"
"041b"="l_intl.nls"
"041d"="l_intl.nls"
"081d"="l_intl.nls"
"041f"="l_intl.nls"
"0424"="l_intl.nls"
"0436"="l_intl.nls"
"041c"="l_intl.nls"
"042d"="l_intl.nls"
"0423"="l_intl.nls"
"0403"="l_intl.nls"
"0425"="l_intl.nls"
"0438"="l_intl.nls"
```

```
"0421"="l_intl.nls"
"0426"="l_intl.nls"
"0427"="l_intl.nls"
"0422"="l_intl.nls"
"Default"="0409"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print]
```

```
"MajorVersion"=dword:00000002
"MinorVersion"=dword:00000000
"PriorityClass"=dword:00000000
"PortThreadPriority"=dword:00000000
"SchedularThreadPriority"=dword:00000000
"BeepEnabled"=dword:00000000
"NoRemotePrinterDrivers"="Windows NT Fax Driver"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows 4.0]
"Directory"="WIN40"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows 4.0\Drivers]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows 4.0\Print Processors]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT Alpha_AXP]
"Directory"="W32ALPHA"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT Alpha_AXP\Drivers]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT Alpha_AXP\Print
Processors]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT PowerPC]
"Directory"="W32PPC"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT PowerPC\Drivers]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT PowerPC\Print
Processors]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT R4000]
"Directory"="W32MIPS"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT R4000\Drivers]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT R4000\Print Processors]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT x86]
```

```

"Directory"="W32X86"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT x86\Drivers]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT x86\Drivers\Version-2]
"Directory"="2"
"MajorVersion"=dword:00000002
"MinorVersion"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT x86\Drivers\Version-
2\HP LaserJet 5Si/5Si MX PS]
"Configuration File"="PSCRIPTUI.DLL"
"Data File"="HPLJ5S11.PPD"
"Driver"="PSCRIPT.DLL"
"Help File"="PSCRIPT.HLP"
"Monitor"=""
"Datatype"=""
"Dependent
Files"=hex(7):48,50,4c,4a,35,53,49,31,2e,50,50,44,00,
50,53,43,52,49,\
50,54,2e,44,4c,4c,00,50,53,43,52,50,54,55,49,2e,44,4c
,4c,00,50,53,43,52,49,\
50,54,2e,48,4c,50,00,00
"Version"=dword:00000002

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT x86\Print Processors]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Environments\Windows NT x86\Print
Processors\winprint]
"Driver"="winprint.dll"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Monitors]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Monitors\Local Port]
"Driver"="localmon.dll"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Monitors\PJL Language Monitor]
"Driver"="pjlmon.dll"
"EOJTimeout"=dword:0000ea60

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Printers]
"DefaultSpoolDirectory"="C:\\WINNT\\System32\\spool\\
PRINTERS"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Providers]
"Order"=hex(7):4c,61,6e,4d,61,6e,20,50,72,69,6e,74,20
,53,65,72,76,69,63,65,73,\
00,00
"EventLog"=dword:0000001f
"NetPopup"=dword:00000001
"RetryPopup"=dword:00000001

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Providers\LanMan Print Services]
"Name"="win32spl.dll"
"DisplayName"="LanMan Print Services"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Providers\LanMan Print Services\Monitors]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Providers\LanMan Print Services\Monitors\LanMan
Print Services Port]
"Driver"="win32spl.dll"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Providers\LanMan Print Services\Servers]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Providers\LanMan Print
Services\Servers\archive]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Providers\LanMan Print
Services\Servers\archive\Forms]
"US
Letter"=hex:5b,4b,03,00,67,43,04,00,00,00,00,00,00,
00,00,5b,4b,03,00,67,\
43,04,00,01,00,00,02,00,00,00
"US
Legal"=hex:5b,4b,03,00,0f,6d,05,00,00,00,00,00,00,
00,00,5b,4b,03,00,0f,\
6d,05,00,02,00,00,02,00,00,00
"11x17
(Oversize)"=hex:4e,88,04,00,9e,db,06,00,00,00,00,00,
0,0,00,00,4e,88,\
04,00,9e,db,06,00,03,00,00,02,00,00,00
"JIS
B4"=hex:96,ec,03,00,22,8e,05,00,00,00,00,00,00,00,
00,96,ec,03,00,22,8e,\
05,00,04,00,00,02,00,00,00
"JIS
B5"=hex:11,c7,02,00,96,ec,03,00,00,00,00,00,00,00,
00,11,c7,02,00,96,ec,\
03,00,05,00,00,00,02,00,00,00
"Double
Postcard"=hex:c6,42,02,00,58,0d,03,00,00,00,00,00,
00,00,00,c6,42,02,\
00,58,0d,03,00,06,00,00,02,00,00,00
"Env
Comm10"=hex:46,99,01,00,93,ae,03,00,00,00,00,00,00,
00,00,46,99,01,00,\
93,ae,03,00,07,00,00,02,00,00,00
"Env
Monarch"=hex:78,80,01,00,23,e8,02,00,00,00,00,00,00,
0,00,00,78,80,01,00,\
23,e8,02,00,08,00,00,02,00,00,00
"Env
DL"=hex:f2,ad,01,00,e5,5b,03,00,00,00,00,00,00,00,
00,f2,ad,01,00,e5,5b,\
03,00,09,00,00,00,02,00,00,00
"Env
C5"=hex:84,78,02,00,58,7e,03,00,00,00,00,00,00,00,
00,84,78,02,00,58,7e,\
03,00,0a,00,00,00,02,00,00,00

```

```

"Env ISO
B5"=hex:a4,af,02,00,a6,cf,03,00,00,00,00,00,00,00,00,
00,a4,af,02,00,\
a6,cf,03,00,0b,00,00,00,02,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Providers\LanMan Print
Services\Servers\archive\Printers]
"DefaultSpoolDirectory"="C:\\WINNT\\System32\\spool\\
PRINTERS"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Print\Providers\LanMan Print
Services\Servers\archive\Printers\HP LaserJet 5Si/5Si
MX PS]
"ChangeID"=dword:052c7022
"Status"=dword:00000180
"Name"="HP LaserJet 5Si/5Si MX PS"
"Share Name"="Labprinter"
"Print Processor"="winprint"
"Datatype"="RAW"
"Parameters"=""
"Description"=""
"Printer Driver"="HP LaserJet 5Si/5Si MX PS"
"Default
DevMode"=hex:48,00,50,00,20,00,4c,00,61,00,73,00,65,0
0,72,00,4a,00,65,\
00,74,00,20,00,35,00,53,00,69,00,2f,00,35,00,53,00,69
,00,20,00,4d,00,58,00,\
20,00,50,00,53,00,00,00,00,00,00,00,00,00,00,00,00,
00,00,01,04,00,04,dc,\
00,b4,00,13,57,01,00,01,00,01,00,00,00,00,00,64,00,01
,00,0f,00,58,02,01,00,\
01,00,00,00,03,00,00,00,4c,00,65,00,74,00,74,00,65,00
,72,00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,\
00,50,52,49,56,e0,10,00,00,00,00,00,00,00,00,00,00,00
,00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,18,00,00,00
,00,00,10,27,10,27,10,\

```

27,00,00,10,27,00,00,00,00,00,00,00,07,30,0a,00,00,
03,00,01,00,00,01,ff,\

00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,\

00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,\

00,00,00,00,00
"Priority"=dword:00000001
"Default Priority"=dword:00000000
"StartTime"=dword:00000000
"UntilTime"=dword:00000000
"Separator File"=""
"Location"=""
"Attributes"=dword:00000000
"txTimeout"=dword:0000afc8
"dnsTimeout"=dword:00003a98
"Security"=hex:01,00,04,80,e4,00,00,00,f4,00,00,00,00,
00,00,00,14,00,00,00,02,\

00,d0,00,08,00,00,00,00,0a,14,00,00,00,02,00,01,01,00,
00,00,00,00,03,00,00,\

00,00,00,09,14,00,00,00,10,01,01,00,00,00,00,00,03,
00,00,00,00,00,14,\

00,08,00,02,00,01,01,00,00,00,00,00,01,00,00,00,00,
0a,14,00,00,00,00,20,\

01,01,00,00,00,00,01,00,00,00,00,00,00,18,00,0c,00,
0f,00,01,02,00,00,00,\

00,00,05,20,00,00,00,20,02,00,00,00,0b,18,00,00,00,
10,01,02,00,00,00,00,\

00,05,20,00,00,00,20,02,00,00,00,00,18,00,0c,00,0f,00,
01,02,00,00,00,00,00,\

05,20,00,00,00,23,02,00,00,00,0b,18,00,00,00,10,01,
02,00,00,00,00,00,05,\

20,00,00,00,23,02,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,\

00,00,00,00,00,00,01,02,00,00,00,00,00,05,20,00,00,
00,20,02,00,00,01,05,\

00,00,00,00,00,05,15,00,00,00,7b,17,73,57,b5,6b,ae,7e,
fa,0f,ef,24,01,02,00,\

00
"SpoolDirectory"=""
"TotalJobs"=dword:00000000
"TotalBytes"=hex:00,00,00,00,00,00,00,00
"TotalPages"=dword:00000000
"Port"="NEXX:"
"CachePrinterInfo2"=hex:74,01,00,00,2c,01,00,00,16,01,
00,00,e4,00,00,00,b0,00,\

00,00,ae,00,00,ac,00,00,00,a8,02,00,00,70,00,00,00,
5e,00,00,00,56,00,00,\

00,54,00,00,00,88,01,00,00,18,00,00,00,01,00,00,00,
00,00,00,00,00,00,00,\

00,00,00,00,00,80,00,00,00,00,00,00,00,00,00,00,
52,00,41,00,57,00,00,\

00,77,00,69,00,6e,00,70,00,72,00,69,00,6e,00,74,00,00,
00,43,00,3a,00,5c,00,\

57,00,49,00,4e,00,4e,00,54,00,34,00,30,00,5c,00,73,00,
79,00,73,00,74,00,65,\

00,6d,00,33,00,32,00,5c,00,44,00,62,00,6c,00,61,00,62,
00,2e,00,73,00,65,00,\

70,00,00,00,00,00,00,00,48,00,50,00,20,00,4c,00,61,00,
73,00,65,00,72,00,4a,\

00,65,00,74,00,20,00,35,00,53,00,69,00,2f,00,35,00,53,
00,69,00,20,00,4d,00,\

58,00,20,00,50,00,53,00,00,00,31,00,33,00,30,00,2e,00,
31,00,36,00,38,00,2e,\

00,31,00,2e,00,32,00,34,00,30,00,3a,00,4c,00,41,00,42,
00,50,00,52,00,49,00,\

4e,00,54,00,45,00,52,00,00,00,4c,00,61,00,62,00,70,00,
72,00,69,00,6e,00,74,\

00,65,00,72,00,00,00,5c,00,5c,00,41,00,52,00,43,00,48,
00,49,00,56,00,45,00,\

5c,00,48,00,50,00,20,00,4c,00,61,00,73,00,65,00,72,00,
4a,00,65,00,74,00,20,\

00,35,00,53,00,69,00,2f,00,35,00,53,00,69,00,20,00,4d,
00,58,00,20,00,50,00,\

53,00,00,00,5c,00,5c,00,41,00,52,00,43,00,48,00,49,00,
56,00,45,00,00,00,01,\

00,04,80,f4,00,00,00,04,01,00,00,00,00,00,14,00,00,
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"CacheChangeID"=dword:002975c5
"ServerVersion"=dword:05650004

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"CacheReferenceCount"=dword:00000001

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Print\Providers\LanMan Print
Services\Servers\archive\Printers\HP LaserJet 5Si/5Si
MX PS\PrinterDriverData]
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"PrinterDataSize"=dword:00000068
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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
PriorityControl]
"Win32PrioritySeparation"=dword:00000002

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
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"ProductType"="ServerNT"

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SecurePipeServers]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SecurePipeServers\winreg]
"Description"="Registry Server"

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SecurePipeServers\winreg\AllowedPaths]
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,63,74,4f,70,74,69,6f,\
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65,74,5c,43,6f,6e,74,72,6f,6c,5c,50,72,69,6e,74,5c,50
,72,69,6e,74,65,72,73,\
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SecurityProviders\SCHANNEL]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SecurityProviders\SCHANNEL\CertificationAuthorities]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SecurityProviders\SCHANNEL\CertificationAuthorities\A
T&T Certificate Services]
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T&T Directory Services]
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TE Cybertrust ROOT]
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8e,23,c3,71,ea,19,24,47,04,9e,75,bf,c8,a6,00,1f,02,03,01,00,01,30,0d,06,09,\

2a,86,48,86,f7,0d,01,01,02,05,00,03,81,81,00,7b,af,a4,1c,2f,c0,9b,0e,3b,5c,\

fc,a8,e6,d1,96,0f,48,72,49,85,e5,af,1a,23,00,e3,e9,bb,80,34,6c,b2,3f,84,a8,\

3c,72,70,b3,4c,de,73,fa,7c,84,d2,92,a5,00,37,09,c2,03,34,23,03,b7,ed,76,96,\

dc,3e,4f,85,fd,58,17,f4,04,be,ec,51,1e,dc,7a,db,db,ae,e8,61,78,da,65,38,47,\

ac,1d,03,70,6d,e9,e3,bb,a0,4a,9f,40,ea,bc,db,73,bf,67,4d,5d,c6,7c,20,5c,e7,\

e8,a2,a0,2b,c2,09,74,d7,4c,fe,db,e9,6b,02,63,5d,39,a7
"Enabled"=dword:00000001
"Type"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\CertificationAuthorities\Verisign Class 3 Public Primary CA]
"CACert"=hex:30,82,02,31,30,82,01,9a,02,05,02,a1,00,00,01,30,0d,06,09,2a,86,48,\

86,f7,0d,01,01,02,05,00,30,5f,31,0b,30,09,06,03,55,04,06,13,02,55,53,31,17,\

30,15,06,03,55,04,0a,13,0e,56,65,72,69,53,69,67,6e,2c,20,49,6e,63,2e,31,37,\

30,35,06,03,55,04,0b,13,2e,43,6c,61,73,73,20,33,20,50,75,62,6c,69,63,20,50,\

72,69,6d,61,72,79,20,43,65,72,74,69,66,69,63,61,74,69,6f,6e,20,41,75,74,68,\

6f,72,69,74,79,30,1e,17,0d,39,36,30,31,32,39,30,30,30,30,30,30,5a,17,0d,39,\

39,31,32,33,31,32,33,35,39,35,39,5a,30,5f,31,0b,30,09,06,03,55,04,06,13,02,\

55,53,31,17,30,15,06,03,55,04,0a,13,0e,56,65,72,69,53,69,67,6e,2c,20,49,6e,\

63,2e,31,37,30,35,06,03,55,04,0b,13,2e,43,6c,61,73,73,20,33,20,50,75,62,6c,\

69,63,20,50,72,69,6d,61,72,79,20,43,65,72,74,69,66,69,63,61,74,69,6f,6e,20,\

41,75,74,68,6f,72,69,74,79,30,81,9f,30,0d,06,09,2a,86,48,86,f7,0d,01,01,01,\

05,00,03,81,8d,00,30,81,89,02,81,81,00,c9,5c,59,9e,f2,1b,8a,01,14,b4,10,df,\

04,40,db,e3,57,af,6a,45,40,8f,84,0c,0b,d1,33,d9,d9,11,cf,ee,02,58,1f,25,f7,\

2a,a8,44,05,aa,ec,03,1f,78,7f,9e,93,b9,9a,00,aa,23,7d,d6,ac,85,a2,63,45,c7,\

72,27,cc,f4,4c,c6,75,71,d2,39,ef,4f,42,f0,75,df,0a,90,c6,8e,20,6f,98,0f,f8,\

ac,23,5f,70,29,36,a4,c9,86,e7,b1,9a,20,cb,53,a5,85,e7,3d,be,7d,9a,fe,24,45,\

33,dc,76,15,ed,0f,a2,71,64,4c,65,2e,81,68,45,a7,02,03,01,00,01,30,0d,06,09,\

2a,86,48,86,f7,0d,01,01,02,05,00,03,81,81,00,75,66,6c,3e,d1,cd,81,db,5b,f8,\

2f,36,51,b6,f7,42,bc,cd,42,af,dc,0e,fa,15,6c,f8,67,93,57,3a,eb,b6,92,e8,b6,\

01,ca,8c,b7,8e,43,b4,49,65,f9,3e,ee,bd,75,46,2e,c9,fc,25,5d,a8,c7,2f,8b,9b,\

8f,68,cf,b4,9c,97,18,c0,4d,ef,1f,d9,af,82,b3,e6,64,b8,84,5c,8a,9a,07,52,43,\

61,fb,74,9e,5b,3a,36,fc,4c,b2,fc,1a,3f,15,2e,a5,5b,3c,1b,90,ec,88,29,e4,59,\

16,f9,ce,07,ad,ec,e9,dd,da,d2,31,8a,4f,d6,d8,ef,17,8d
"Enabled"=dword:00000001
"Type"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\CertificationAuthorities\Verisign Class 4 Public Primary CA]
"CACert"=hex:30,82,02,31,30,82,01,9a,02,05,02,a6,00,00,01,30,0d,06,09,2a,86,48,\

86,f7,0d,01,01,02,05,00,30,5f,31,0b,30,09,06,03,55,04,06,13,02,55,53,31,17,\

30,15,06,03,55,04,0a,13,0e,56,65,72,69,53,69,67,6e,2c,20,49,6e,63,2e,31,37,\

30,35,06,03,55,04,0b,13,2e,43,6c,61,73,73,20,34,20,50,75,62,6c,69,63,20,50,\

72,69,6d,61,72,79,20,43,65,72,74,69,66,69,63,61,74,69,6f,6e,20,41,75,74,68,\

6f,72,69,74,79,30,1e,17,0d,39,36,30,31,32,39,30,30,30,30,30,5a,17,0d,39,\

39,31,32,33,31,32,33,35,39,35,39,5a,30,5f,31,0b,30,09,06,03,55,04,06,13,02,\

55,53,31,17,30,15,06,03,55,04,0a,13,0e,56,65,72,69,53,69,67,6e,2c,20,49,6e,\

63,2e,31,37,30,35,06,03,55,04,0b,13,2e,43,6c,61,73,73,20,34,20,50,75,62,6c,\

69,63,20,50,72,69,6d,61,72,79,20,43,65,72,74,69,66,69,63,61,74,69,6f,6e,20,\

41,75,74,68,6f,72,69,74,79,30,81,9f,30,0d,06,09,2a,86,48,86,f7,0d,01,01,01,\

05,00,03,81,8d,00,30,81,89,02,81,81,00,d0,b2,75,f6,78,d0,ae,5a,50,f4,e9,50,\

a9,9f,8c,d7,ef,91,94,70,e8,d2,24,90,76,89,85,d6,df,ac,e6,01,17,32,80,f0,9d,\

93,47,bc,9a,65,9d,1f,97,ae,bf,e9,86,75,63,20,89,bd,80,58,9d,04,0c,9d,a8,c1,\

24,e9,0b,e5,31,78,bd,fc,2d,0c,37,6a,9e,78,80,e9,46,75,f9,ed,a3,fb,13,7b,c8,\

c1,4c,d2,a3,ef,f5,3c,b0,62,8f,4a,5d,3b,dd,95,67,8f,13,b9,c1,3c,d6,a7,26,9b,\

ec,c3,3b,7a,d9,4d,bc,6d,9b,e8,15,01,e3,f0,47,a9,02,03,01,00,01,30,0d,06,09,\

2a,86,48,86,f7,0d,01,01,02,05,00,03,81,81,00,53,dd,d3,f0,9c,24,7e,40,aa,e2,\

fc,00,1a,d7,da,0c,fc,32,61,b8,15,0d,96,f3,fa,57,1b,7f,33,7c,af,e9,98,9a,61,\

c8,7a,b3,b7,ff,b1,dc,99,83,dc,ac,12,fc,70,c9,1f,38,42,ed,44,f6,80,2e,5b,6b,\

33,69,ac,9c,d3,5c,e7,5f,5a,18,c7,b1,2d,79,04,96,41,91,99,41,b1,3c,0d,ba,84,\

39,c6,3b,97,f0,26,c9,8e,ee,bd,cc,42,95,ff,1e,c7,02,3f,54,0c,78,f5,bc,aa,60,\

7c,02,69,e8,dc,ac,e2,02,76,61,c4,3e,03,ea,d2,8a,24,d1
"Enabled"=dword:00000001
"Type"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\CertificationAuthorities\Verisign\RSA Commercial]
"CACert"=hex:30,82,02,23,30,82,01,90,02,05,02,41,00,00,16,30,0d,06,09,2a,86,48,\

86,f7,0d,01,01,02,05,00,30,5c,31,0b,30,09,06,03,55,04,06,13,02,55,53,31,20,\

30,1e,06,03,55,04,0a,13,17,52,53,41,20,44,61,74,61,20,53,65,63,75,72,69,74,\

79,2c,20,49,6e,63,2e,31,2b,30,29,06,03,55,04,0b,13,22,43,6f,6d,6d,65,72,63,\

69,61,6c,20,43,65,72,74,69,66,69,63,61,74,69,6f,6e,20,41,75,74,68,6f,72,69,\

74,79,30,1e,17,0d,39,34,31,31,30,34,31,38,35,38,33,34,5a,17,0d,39,39,31,31,\

30,33,31,38,35,38,33,34,5a,30,5c,31,0b,30,09,06,03,55,04,06,13,02,55,53,31,\

20,30,1e,06,03,55,04,0a,13,17,52,53,41,20,44,61,74,61,20,53,65,63,75,72,69,\

74,79,2c,20,49,6e,63,2e,31,2b,30,29,06,03,55,04,0b,13,22,43,6f,6d,6d,65,72,\

63,69,61,6c,20,43,65,72,74,69,66,69,63,61,74,69,6f,6e,20,41,75,74,68,6f,72,\

69,74,79,30,81,9b,30,0d,06,09,2a,86,48,86,f7,0d,01,01,01,05,00,03,81,89,00,\

30,81,85,02,7e,00,a4,fb,81,62,7b,ce,10,27,dd,e8,f7,be,6c,6e,c6,70,99,db,b8,\

d5,05,03,69,28,82,9c,72,7f,96,3f,8e,ec,ac,29,92,3f,8a,14,f8,42,76,be,bd,5d,\

03,b9,90,d4,d0,bc,06,b2,51,33,5f,c4,c2,bf,b6,8b,8f,99,b6,62,22,60,dd,db,df,\

20,82,b4,ca,a2,2f,2d,50,ed,94,32,de,e0,55,8d,d4,68,e2,e0,4c,d2,cd,05,16,2e,\

95,66,5c,61,52,38,1e,51,a8,82,a1,c4,ef,25,e9,0a,e6,8b,2b,8e,31,66,d9,f8,d9,\

fd,bd,3b,69,d9,eb,02,03,01,00,01,30,0d,06,09,2a,86,48,86,f7,0d,01,01,02,05,\

00,03,7e,00,76,b5,b6,10,fe,23,f7,f7,59,62,4b,b0,5f,9c,c1,68,bc,49,bb,b3,49,\

6f,21,47,5d,2b,9d,54,c4,00,28,3f,98,b9,f2,8a,83,9b,60,7f,eb,50,c7,ab,05,10,\

2d,3d,ed,38,02,c1,a5,48,d2,fe,65,a0,c0,bc,ea,a6,23,16,66,6c,1b,24,a9,f3,ec,\

79,35,18,4f,26,c8,e3,af,50,4a,c7,a7,31,6b,d0,7c,18,9d,50,bf,a9,26,fa,26,2b,\

46,9c,14,a9,bb,5b,30,98,42,28,b5,4b,53,bb,43,09,92,40,ba,a8,aa,5a,a4,c6,b6,\

8b,57,4d,c5
"Enabled"=dword:00000001
"Type"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\CertificationAuthorities\Verisign\RSA Secure Server]
"CACert"=hex:30,82,02,29,30,82,01,96,02,05,02,41,00,00,01,30,0d,06,09,2a,86,48,\

86,f7,0d,01,01,02,05,00,30,5f,31,0b,30,09,06,03,55,04,06,13,02,55,53,31,20,\

30,1e,06,03,55,04,0a,13,17,52,53,41,20,44,61,74,61,20,53,65,63,75,72,69,74,\

79,2c,20,49,6e,63,2e,31,2e,30,2c,06,03,55,04,0b,13,25,53,65,63,75,72,65,20,\

53,65,72,76,65,72,20,43,65,72,74,69,66,69,63,61,74,69,6f,6e,20,41,75,74,68,\

6f,72,69,74,79,30,1e,17,0d,39,34,31,31,30,39,32,33,35,34,31,37,5a,17,0d,39,\

39,31,32,33,31,32,33,35,34,31,37,5a,30,5f,31,0b,30,09,06,03,55,04,06,13,02,\

55,53,31,20,30,1e,06,03,55,04,0a,13,17,52,53,41,20,44,61,74,61,20,53,65,63,\

75,72,69,74,79,2c,20,49,6e,63,2e,31,2e,30,2c,06,03,55,04,0b,13,25,53,65,63,\

75,72,65,20,53,65,72,76,65,72,20,43,65,72,74,69,66,69,63,61,74,69,6f,6e,20,\

41,75,74,68,6f,72,69,74,79,30,81,9b,30,0d,06,09,2a,86,48,86,f7,0d,01,01,01,\

05,00,03,81,89,00,30,81,85,02,7e,00,92,ce,7a,c1,ae,83,3e,5a,aa,89,83,57,ac,\

25,01,76,0c,ad,ae,8e,2c,37,ce,eb,35,78,64,54,03,e5,84,40,51,c9,bf,8f,08,e2,\

8a,82,08,d2,16,86,37,55,e9,b1,21,02,ad,76,68,81,9a,05,a2,4b,c9,4b,25,66,22,\

56,6c,88,07,8f,f7,81,59,6d,84,07,65,70,13,71,76,3e,9b,77,4c,e3,50,89,56,98,\

48,b9,1d,a7,29,1a,13,2e,4a,11,59,9c,1e,15,d5,49,54,2c,73,3a,69,82,b1,97,39,\

9c,6d,70,67,48,e5,dd,2d,d6,c8,1e,7b,02,03,01,00,01,30,0d,06,09,2a,86,48,86,\

f7,0d,01,01,02,05,00,03,7e,00,88,d1,d1,79,21,ce,e2,8b,e8,f8,c1,7d,34,53,3f,\

61,83,d9,b6,0b,38,17,b6,e8,be,21,8d,8f,00,b8,8b,53,7e,44,67,1e,22,bd,97,27,\

e0,9c,85,cc,4a,f6,85,3b,b2,e2,be,92,d3,e5,0d,e9,af,5c,0e,0c,46,95,ff,a1,1c,\

5e,3e,e8,36,58,7a,73,a6,0a,f8,22,11,6b,c3,09,38,7e,26,bb,73,ef,00,bd,02,a4,\

f3,14,0d,30,3f,61,70,7b,20,fe,32,a3,9f,b3,f4,67,52,dc,b4,ee,84,8c,96,36,20,\

de,81,08,83,71,21,8a,0f,9e,a9
"Enabled"=dword:00000001
"Type"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Ciphers]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Hashes]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\KeyExchangeAlgorithms]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\Multi-Protocol Unified Hello]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\Multi-Protocol Unified Hello\Client]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\Multi-Protocol Unified Hello\Server]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\PCT 1.0]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\PCT 1.0\Client]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\PCT 1.0\Server]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 2.0]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 2.0\Client]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 2.0\Server]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\SSL 3.0]

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SecurityProviders\SCHANNEL\Protocols\SSL 3.0\Client]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SecurityProviders\SCHANNEL\Protocols\SSL 3.0\Server]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
ServiceGroupOrder]
>List"=hex(7):53,79,73,74,65,6d,20,42,75,73,20,45,78,
74,65,6e,64,65,72,00,53,\
43,53,49,20,6d,69,6e,69,70,6f,72,74,00,70,6f,72,74,00,
50,72,69,6d,61,72,79,\
20,64,69,73,6b,00,53,43,53,49,20,63,6c,61,73,73,00,53,
43,53,49,20,43,44,52,\
4f,4d,20,63,6c,61,73,73,00,66,69,6c,74,65,72,00,62,6f,
6f,74,20,66,69,6c,65,\
20,73,79,73,74,65,6d,00,42,61,73,65,00,50,6f,69,6e,74,
65,72,20,50,6f,72,74,\
00,4b,65,79,62,6f,61,72,64,20,50,6f,72,74,00,50,6f,69,
6e,74,65,72,20,43,6c,\
61,73,73,00,4b,65,79,62,6f,61,72,64,20,43,6c,61,73,73,
00,56,69,64,65,6f,20,\
49,6e,69,74,00,56,69,64,65,6f,00,56,69,64,65,6f,20,53,
61,76,65,00,66,69,6c,\
65,20,73,79,73,74,65,6d,00,45,76,65,6e,74,20,6c,6f,67,
00,53,74,72,65,61,6d,\
73,20,44,72,69,76,65,72,73,00,50,4e,50,5f,54,44,49,00,
4e,44,49,53,00,54,44,\
49,00,4e,65,74,42,49,4f,53,47,72,6f,75,70,00,53,70,6f,
6f,6c,65,72,47,72,6f,\
75,70,00,4e,65,74,44,44,45,47,72,6f,75,70,00,50,61,72,
61,6c,6c,65,6c,20,61,\
72,62,69,74,72,61,74,6f,72,00,65,78,74,65,6e,64,65,64,
20,62,61,73,65,00,52,\
65,6d,6f,74,65,56,61,6c,69,64,61,74,69,6f,6e,00,50,43,
49,20,43,6f,6e,66,69,\
67,75,72,61,74,69,6f,6e,00,4d,53,20,54,72,61,6e,73,61,
63,74,69,6f,6e,73,00,\
00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
ServiceProvider]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
ServiceProvider\Order]
"ExcludedProviders"=hex(7):00
"ProviderOrder"=hex(7):54,63,70,69,70,00,00
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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager]
"ObjectDirectories"=hex(7):5c,57,69,6e,64,6f,77,73,00,
5c,52,50,43,20,43,6f,6e,\
74,72,6f,6c,00,00
"GlobalFlag"=dword:00000000
"ProtectionMode"=dword:00000000
"BootExecute"=hex(7):61,75,74,6f,63,68,65,63,6b,20,61,
75,74,6f,63,68,6b,20,2a,\
00,00
"EnableMCE"=dword:00000000
"EnableMCA"=dword:00000001
"HeapSegmentReserve"=dword:00000000
"HeapSegmentCommit"=dword:00000000
"HeapDeCommitTotalFreeThreshold"=dword:00000000
"HeapDeCommitFreeBlockThreshold"=dword:00000000
"CriticalSectionTimeout"=dword:00278d00
"ResourceTimeoutCount"=dword:0009e340
"ExcludeFromKnownDlls"=hex(7):00,00
"ProcessorControl"=dword:00000002
"RegisteredProcessors"=dword:00000008
"LicensedProcessors"=dword:00000008

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\CWD]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\CWD\ff060102423da0000407108e0500]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\CWD\ff060102423da0000407108e0500\
]
"Add1"=hex:02,15,40,a0,10,1e,b8,23,00,8e,d8,8b,0e,14,
07,81,e1,00,02,1f,c3
"Change1"=hex:01,1d,50,48,0c,55,8b,ec,b8,00,00,9c,59,
81,e1,00,02,55,8b,ec,b8,\
00,00,e8,e7,57,90,90,90

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\MYST]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\MYST\ff060102423bab000407102e0600]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\MYST\ff060102423bab000407102e0600\
1]
"Add1"=hex:02,15,40,ab,10,1e,b8,23,00,8e,d8,8b,0e,14,
07,81,e1,00,02,1f,c3
"Change1"=hex:01,1d,50,49,0c,55,8b,ec,b8,00,00,9c,59,
81,e1,00,02,55,8b,ec,b8,\
00,00,e8,e7,61,90,90,90

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\PALED40]
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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\PALED40\ff060102420032000407401b01
00]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\PALED40\ff060102420032000407401b01
00\1]
"Change1"=hex:01,07,b7,21,01,d8,0c

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\USA]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\USA\ff06010242059b00040710780600]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\USA\ff06010242059b00040710780600\1
]
"Change1"=hex:01,1d,95,44,0c,55,8b,ec,b8,00,00,9c,59,
81,e1,00,02,55,8b,ec,b8,\
00,00,e8,67,56,90,90,90
"Change2"=hex:01,25,05,9b,10,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,\
1e,b8,23,00,8e,d8,8b,0e,14,07,81,e1,00,02,1f,c3

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\VB]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\VB\ff060102ec353f00040780c81300]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\VB\ff060102ec353f00040780c81300\12
]
"Change1"=hex:01,11,1b,03,06,81,3e,ba,31,34,03,81,3e,
ba,31,09,03

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\VB40016]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\VB40016\ff0702021401ee3e000407d046
0e00]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\AppDataches\VB40016\ff0702021401ee3e000407d046
0e00\16]
"Change1"=hex:01,11,6d,2a,06,81,3e,6e,36,34,03,81,3e,
6e,36,09,03

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\DOS Devices]
"PRN"="\DosDevices\LPT1"
"AUX"="\DosDevices\COM1"
"NUL"="\Device\Null"
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"PIPE"="\\Device\NamedPipe"
"MAILSLOT"="\\Device\Mailslot"
"UNC"="\\Device\Mup"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\Environment]
"ComSpec"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,
5c,73,79,73,74,65,6d,33,\
32,5c,63,6d,64,2e,65,78,65,00
"Os2LibPath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,
25,5c,73,79,73,74,65,6d,\
33,32,5c,6f,73,32,5c,64,6c,6c,3b,00
"Path"=hex(2):43,3a,5c,6d,6b,73,5c,6d,6b,73,6e,74,3b,
43,3a,5c,57,49,4e,4e,54,\

5c,73,79,73,74,65,6d,33,32,3b,43,3a,5c,57,49,4e,4e,54,
3b,43,3a,5c,4d,53,53,\
51,4c,37,5c,42,49,4e,4e,00
"windir"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,0
0
"OS"="Windows_NT"
"PROCESSOR_ARCHITECTURE"="x86"
"PROCESSOR_LEVEL"="6"
"PROCESSOR_IDENTIFIER"="x86 Family 6 Model 7 Stepping
2, GenuineIntel"
"PROCESSOR_REVISION"="0702"
"NUMBER_OF_PROCESSORS"="4"
"ROOTDIR"="C:/mks"
"SHELL"="C:/mks/mksnt/sh.exe"
"HOME"="C:/"
"TMPDIR"="C:/TEMP"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\Executive]
"AdditionalCriticalWorkerThreads"=dword:00000000
"AdditionalDelayedWorkerThreads"=dword:00000000
"PriorityQuantumMatrix"=hex:4e,0d,b5,bf,00,00,00,00,4
2,55,be,01

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\FileRenameOperations]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\KnownDLLs]
"DllDirectory"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,7
4,25,5c,73,79,73,74,65,6d,\
33,32,00
"kernel32"="kernel32.dll"
"gdi32"="gdi32.dll"
"user32"="user32.dll"
"rpcrt4"="rpcrt4.dll"
"advapi32"="advapi32.dll"
"comdlg32"="comdlg32.dll"
"crtdll"="crtdll.dll"
"shell32"="shell32.dll"
"lz32"="lz32.dll"
"olecli32"="olecli32.dll"
"olesvr32"="olesvr32.dll"
"version"="version.dll"
"ole32"="ole32.dll"
"oleaut32"="oleaut32.dll"
"olecnv32"="olecnv32.dll"
"olethk32"="olethk32.dll"

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"SHLWAPI"="SHLWAPI.DLL"
"WININET"="WININET.DLL"
"URLMON"="URLMON.DLL"
"NETAPI32"="NETAPI32.DLL"
"MSRATING"="MSRATING.DLL"
"URL"="URL.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\Memory Management]
"PagedPoolSize"=dword:00000000
"NonPagedPoolSize"=dword:00000000
"PagedPoolQuota"=dword:00000000
"NonPagedPoolQuota"=dword:00000000
"IoPageLockLimit"=dword:00000000
"LargeSystemCache"=dword:00000000
"PagingFiles"=hex(7):43,3a,5c,70,61,67,65,66,69,6c,65
,2e,73,79,73,20,32,36,37,\
00,00
"SystemPages"=dword:00000000
"SecondLevelDataCache"=dword:00400000
"DisablePagingExecutive"=dword:00000000
"ClearPageFileAtShutdown"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Session Manager\SubSystems]
"Required"=hex(7):44,65,62,75,67,00,57,69,6e,64,6f,77
,73,00,00
"Optional"=hex(7):4f,73,32,00,50,6f,73,69,78,00,00
"Debug"=hex(2):00
"Windows"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,
5c,73,79,73,74,65,6d,33,\

32,5c,63,73,72,73,73,2e,65,78,65,20,4f,62,6a,65,63,74
,44,69,72,65,63,74,6f,6e,\

72,79,3d,5c,57,69,6e,64,6f,77,73,20,53,68,61,72,65,64
,53,65,63,74,69,6f,6e,\

3d,31,30,32,34,2c,33,30,37,32,20,57,69,6e,64,6f,77,73
,3d,4f,6e,20,53,75,62,\

53,79,73,74,65,6d,54,79,70,65,3d,57,69,6e,64,6f,77,73
,20,53,65,72,76,65,72,\

44,6c,6c,3d,62,61,73,65,73,72,76,2c,31,20,53,65,72,76
,65,72,44,6c,6c,3d,77,\

69,6e,73,72,76,3a,55,73,65,72,53,65,72,76,65,72,44,6c
,6c,49,6e,69,74,69,61,\

6c,69,7a,61,74,69,6f,6e,2c,33,20,53,65,72,76,65,72,44
,6c,6c,3d,77,69,6e,73,\

72,76,3a,43,6f,6e,53,65,72,76,65,72,44,6c,6c,49,6e,69
,74,69,61,6c,69,7a,61,\

74,69,6f,6e,2c,32,20,50,72,6f,66,69,6c,65,43,6f,6e,74
,72,6f,6c,3d,4f,66,66,\

20,4d,61,78,52,65,71,75,65,73,74,54,68,72,65,61,64,73
,3d,31,36,00
"Kmode"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c
,73,79,73,74,65,6d,33,32,\

```

```

5c,77,69,6e,33,32,6b,2e,73,79,73,00
"Os2"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,7
3,79,73,74,65,6d,33,32,5c,\
6f,73,32,73,73,2e,65,78,65,00
"Posix"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c
,73,79,73,74,65,6d,33,32,\
5c,70,73,78,73,73,2e,65,78,65,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps\HOTDOGPRO4.EXE]
"hotdogpro4.exe"="5006"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps\ileapl-1.exe]
"ileapl-1.exe"="5001"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps\LAUNCHER.EXE]
"hatchery.exe"="5013"
"Versionhatchery.exe"=hex:00,00,01,00,01,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps\PROINST.EXE]
"PROINST.EXE"="1092"
"VersionPROINST.EXE"=hex:00,00,01,00,01,00,00,00
"FlagsPROINST.EXE"="I"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps\setup.exe]
"money96.inf"="5004"
"Versionmoney96.inf"=hex:14,00,01,00,7b,07,00,00
"Flagsmoney96.inf"="I"
"winsetup.bin"="5014"
"Versionwinsetup.bin"=hex:00,00,04,00,57,04,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps400]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps400\access.exe]
"Flagsaccssuns.exe"="I"
"accssuns.exe"="5019"
"Versionaccess.exe"=hex:00,00,01,00,01,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps400\InterLeap.exe]
"InterLeap.exe"="5001"
"VersionInterLeap.exe"=hex:01,00,01,00,00,00,00,00
"FlagsInterLeap.exe"="I"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps400\MSIE20.exe]
"MSIE20.exe"="5003"
"FlagsMSIE20.exe"="I"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SessionManager\CheckBadApps400\MSIE30.exe]

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"MSIE30.exe"="5003"	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
"FlagsMSIE30.exe"="I"	SessionManager\CheckBadApps400\MSIE30M.exe]	00,00,00,00,00,00,00,00,00,00,00,05,00,00,00,00,00,
	"MSIE30M.exe"="5003"	,ff,ff,00,00,00,00,00,\
	"FlagsMSIE30M.exe"="I"	
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE301-AXP.exe]	SessionManager\CheckBadApps400\MSIE30r.exe]	
"MSIE301-AXP.exe"="5003"	"MSIE30r.exe"="5003"	00,08,01,00,00,00,00,00,00,00,00,00,00,00,00,00,40
"FlagsMSIE301-AXP.exe"="I"	"FlagsMSIE30r.exe"="I"	,01,00,00,00,00,00,00,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE301.exe]	SessionManager\CheckBadApps400\MSIE30US.exe]	
"MSIE301.exe"="5003"	"MSIE30US.exe"="5003"	7f,01,00,00,00,00,00,00,08,01,00,00,00,00,00,00,
"FlagsMSIE301.exe"="I"	"FlagsMSIE30US.exe"="I"	,00,00,00,00,00,00,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE301M95.exe]	SessionManager\CheckBadApps400\MSIE30USP3_I.EXE]	
"MSIE301M95.exe"="5003"	"nt4sp3_i.exe"="5015"	02,00,00,00,00,00,00,ff,02,00,00,00,00,00,08,01,00
"FlagsMSIE301M95.exe"="I"		,00,00,00,00,00,00,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE301MNT.exe]	SessionManager\CheckBadApps400\OLEUPD.EXE]	
"MSIE301MNT.exe"="5003"	"oleupd.exe"="5011"	00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
"FlagsMSIE301MNT.exe"="I"	"Versionoleupd.exe"=hex:47,00,04,00,00,00,9a,01	,00,00,00,7a,03,00,00,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE301r.exe]	SessionManager\CheckBadApps400\splunins.exe]	
"MSIE301r.exe"="5003"	"splunins.exe"="5008"	00,00,00,00,08,01,00,00,00,00,00,00,00,00,00,00,
"FlagsMSIE301r.exe"="I"	"Flagssplunins.exe"="I"	,00,00,e8,02,00,00,00,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE301US.exe]	SessionManager\CheckBadApps400\sympapudo.exe]	
"MSIE301US.exe"="5003"	"sympapudo.exe"="5007"	00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
"FlagsMSIE301US.exe"="I"	"Flagssympapudo.exe"="I"	,00,00,00,00,00,00,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE302-AXP.exe]	SessionManager\CheckBadApps400\UPDATE.EXE]	
"MSIE302-AXP.exe"="5003"	"krnl386.exe"="5015"	08,01,00,00,00,00,00,00,00,00,00,00,00,00,00,e8,03
"FlagsMSIE302-AXP.exe"="I"	"Versionkrnl386.exe"=hex:00,00,04,00,04,00,65,05	,00,00,00,00,00,ff,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE302M95.exe]	SystemResources]	
"MSIE302M95.exe"="5003"	"pointer"="mmps2"	00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
"FlagsMSIE302M95.exe"="I"	"video"="VGA"	,00,00,00,00,00,00,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE302MNT.exe]	SystemResources]	
"MSIE302MNT.exe"="5003"	"Isa"="PCFlat"	00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
"FlagsMSIE302MNT.exe"="I"	"Eisa"="PCFlat"	,02,00,00,00,00,00,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE302R.exe]	SystemResources\AssignmentOrdering]	
"MSIE302R.exe"="5003"	"MCA"="PCFlat"	00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
"FlagsMSIE302R.exe"="I"	"PCMCIA"="PCFlat"	,09,00,00,00,09,00,00,00,00,00,00,00,00,00,00,
		,00,00,00,00,00,00,\
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\	
SessionManager\CheckBadApps400\MSIE302US.exe]	SystemResources]	
"MSIE302US.exe"="5003"	"PCFlat"=hex(a):a8,04,00,00,00,00,00,00,00,00,00,00,	00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
"FlagsMSIE302US.exe"="I"		,00,00,01,00,00,00,00,\
		00,00,00,00,00,00,08,02,00,00,00,00,00,00,00,
		,07,00,00,00,00,00,00,\

00,00,00,00,00,00,8c,00,00,00,00,00,00,ff,8c,00,00,00,
00,00,00,08,01,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,88,00,00,00,
00,00,ff,89,00,00,00,\
00,00,00,08,01,00,00,00,00,00,00,00,00,00,00,00,00,
00,00,84,00,00,00,00,\
00,00,ff,84,00,00,00,00,00,00,08,01,00,00,00,00,00,00,
00,00,00,00,00,00,00,\
00,00,80,00,00,00,00,00,00,ff,80,00,00,00,00,00,00,08,
01,00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,7c,00,00,00,00,00,00,ff,7c,
00,00,00,00,00,00,08,\
01,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,78,00,
00,00,00,00,00,ff,79,\
00,00,00,00,00,00,08,01,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,00,74,00,\
00,00,00,00,00,ff,74,00,00,00,00,00,00,08,01,00,00,00,
00,00,00,00,00,00,00,\
00,00,00,00,00,70,00,00,00,00,00,00,ff,70,00,00,00,00,
00,00,08,01,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,6c,00,00,00,00,
00,ff,6c,00,00,00,00,\
00,00,08,01,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
00,68,00,00,00,00,00,\
00,ff,69,00,00,00,00,00,00,08,01,00,00,00,00,00,00,00,
00,00,00,00,00,00,00,\
00,64,00,00,00,00,00,00,ff,64,00,00,00,00,00,00,08,01,
00,00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,60,00,00,00,00,00,ff,60,00,
00,00,00,00,00,00,08,01,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,5c,00,00,
00,00,00,00,ff,5c,00,\
00,00,00,00,00,08,01,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,58,00,00,\
00,00,00,00,ff,59,00,00,00,00,00,00,08,01,00,00,00,00,
00,00,00,00,00,00,00,\
00,00,00,00,54,00,00,00,00,00,00,ff,54,00,00,00,00,00,
00,08,01,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,50,00,00,00,00,00,
ff,50,00,00,00,00,00,\
00,08,01,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,
4c,00,00,00,00,00,00,\

ff,4c,00,00,00,00,00,00,08,01,00,00,00,00,00,00,00,00,
00,00,00,00,00,00,00,\
48,00,00,00,00,00,00,ff,49,00,00,00,00,00,00,08,01,00,
00,00,00,00,00,00,\
00,00,00,00,00,00,00,44,00,00,00,00,00,00,ff,44,00,00,
00,00,00,00,08,01,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,40,00,00,00,
00,00,00,ff,40,00,00,\
00,00,00,00,08,01,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,3c,00,00,00,\
00,00,00,ff,3c,00,00,00,00,00,00,08,01,00,00,00,00,00,
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00,00,00,38,00,00,00,00,00,00,ff,39,00,00,00,00,00,00,
08,01,00,00,00,00,\
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34,00,00,00,00,00,00,\
08,01,00,00,00,00,00,00,00,00,00,00,00,00,00,00,30,
00,00,00,00,00,ff,\
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00,00,00,00,00,2c,\
00,00,00,00,00,00,ff,1c,00,00,00,00,00,00,08,01,00,00,
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00,00,00,00,00,00,00,28,00,00,00,00,00,00,ff,19,00,00,00,
00,00,00,08,01,00,00,\
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00,00,ff,14,00,00,00,\
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00,00,20,00,00,00,00,\
00,00,ff,10,00,00,00,00,00,00,08,01,00,00,00,00,00,00,
00,00,00,00,00,00,00,\
00,00,1c,00,00,00,00,00,00,ff,1c,00,00,00,00,00,00,08,
01,00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,18,00,00,00,00,00,00,ff,19,
00,00,00,00,00,00,08,\
01,00,00,00,00,00,00,00,00,00,00,00,00,00,00,14,00,
00,00,00,00,00,ff,14,\
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00,00,00,00,10,00,\
00,00,00,00,ff,10,00,00,00,00,00,00,08,01,00,00,00,
00,00,00,00,00,00,00,\
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ff,00,00,00,00,08,03,\
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00,00,00,00,ff,ff,0f,\
00,00,00,00,00,08,03,00,00,00,00,00,00,00,00,00,00,00,
00,00,00,00,08,00,\
00,00,00,00,ff,ff,0b,00,00,00,00,00,08,03,00,00,00,00,
00,00,00,00,00,00,00,\
00,00,00,00,00,08,00,00,00,00,00,ff,ff,0f,00,00,00,00,
00,08,03,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,08,00,00,00,00,00,
ff,ff,ff,ff,00,00,00,\
00,00,04,00,00,00,00,00,00,06,00,00,00,ff,00,00,00,00,
00,00,00,00,00,00,00,\
00,00,00,00,00,00,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SystemResources\BusValues]
"Internal"=hex:00,00,00,00,00,00,00,00
"Isa"=hex:01,00,00,00,00,00,00,00
"Eisa"=hex:02,00,00,00,01,00,00,00
"MCA"=hex:03,00,00,00,01,00,00,00
"TurboChannel"=hex:04,00,00,00,00,00,00,00
"PCI"=hex:05,00,00,00,01,00,00,00
"VME"=hex:06,00,00,00,00,00,00,00
"NuBus"=hex:07,00,00,00,00,00,00,00
"ECMCIA"=hex:08,00,00,00,01,00,00,00
"CBus"=hex:09,00,00,00,00,00,00,00
"MPI"=hex:0a,00,00,00,00,00,00,00
"MPSA"=hex:0b,00,00,00,00,00,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
SystemResources\ReservedResources]
"Isa"=hex(8):01,00,00,00,01,00,00,00,00,00,00,00,00,00,00,
00,00,28,00,00,00,01,01,\
00,00,00,00,00,00,00,00,00,00,01,00,00,01,03,00,00,
e8,42,00,00,00,00,\
00,08,00,00,00,01,03,00,00,e8,4a,00,00,00,00,00,00,08,
00,00,00,01,03,00,00,\
e8,82,00,00,00,00,00,00,08,00,00,00,01,03,00,00,e8,86,
00,00,00,00,00,00,08,\

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,00,01,03,00,00,e8,8e,\
00,00,00,00,00,00,08,00,00,00,01,03,00,00,e8,92,00,00,
,00,00,00,00,00,\
00,01,03,00,00,e8,96,00,00,00,00,00,00,08,00,00,00,01,
,03,00,00,e8,9a,00,00,\
00,00,00,00,08,00,00,00,01,03,00,00,e8,9e,00,00,00,00,
,00,00,08,00,00,00,01,\
03,00,00,e8,a2,00,00,00,00,00,00,08,00,00,00,01,03,00,
,00,e8,a6,00,00,00,00,\
00,00,08,00,00,00,01,03,00,00,e8,aa,00,00,00,00,00,00,
,08,00,00,00,01,03,00,\
00,e8,ae,00,00,00,00,00,00,08,00,00,00,01,03,00,00,e8,
,b6,00,00,00,00,00,00,\
08,00,00,00,01,03,00,00,e8,ba,00,00,00,00,00,08,00,00,
,00,00,01,03,00,00,e8,\
be,00,00,00,00,00,00,08,00,00,00,01,03,00,00,e8,c2,00,
,00,00,00,00,00,08,00,\
00,00,01,03,00,00,e8,c6,00,00,00,00,00,08,00,00,00,00,
,01,03,00,00,e8,ca,00,\
00,00,00,00,08,00,00,00,01,03,00,00,e8,ce,00,00,00,
,00,00,00,08,00,00,00,\
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,00,00,e8,d6,00,00,\
00,00,00,08,00,00,00,01,03,00,00,e8,da,00,00,00,00,00,
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00,00,e8,de,00,00,00,00,00,08,00,00,00,01,03,00,00,
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e8,ea,00,00,00,00,00,00,08,00,00,00,01,03,00,00,e8,ee,
,00,00,00,00,00,00,08,\
00,00,00,01,03,00,00,ee,f6,00,00,00,00,00,02,00,00,
,00,01,03,00,00,ee,fa,\
00,00,00,00,00,00,02,00,00,00,01,03,00,00,ee,fe,00,00,
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00,02,03,00,00,03,00,00,00,03,00,00,ff,ff,ff,ff,02,
,03,00,00,04,00,00,00,\
04,00,00,00,ff,ff,ff,ff,02,03,00,00,0e,00,00,00,0e,00,
,00,00,ff,ff,ff,ff,02,\
03,00,00,06,00,00,00,06,00,00,00,ff,ff,ff,ff,02,03,00,
,00,0c,00,00,00,0c,00,\
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00,00,ff,ff,ff,ff,02,03,00,00,01,00,00,00,01,00,00,00,
,ff,ff,ff,ff,03,03,00,\
    00,ff,ff,bf,ff,00,00,00,00,00,00,40,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
TimeZoneInformation]
"Bias"=dword:00000168
"StandardName"="Central Standard Time"
"StandardBias"=dword:00000000
"StandardStart"=hex:00,00,0a,00,05,00,02,00,00,00,00,
00,00,00,00,00
"DaylightName"="Central Daylight Time"
"DaylightBias"=dword:fffffc4
"DaylightStart"=hex:00,00,04,00,01,00,02,00,00,00,00,
00,00,00,00,00
"ActiveTimeBias"=dword:0000012c

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Update]
"UpdateMode"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
VirtualDeviceDrivers]
"VDD"=hex(7):00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
Windows]
"Directory"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,00
"SystemDirectory"=hex(2):25,53,79,73,74,65,6d,52,6f,6
f,74,25,5c,73,79,73,74,65,\
    6d,33,32,00
"ErrorMode"=dword:00000000
"NoInteractiveServices"=dword:00000000
"CSDVersion"=dword:00000400
"ShutdownTime"=hex:d1,44,5a,6b,3b,c8,be,01

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
WOW]
"cmdline"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,
5c,73,79,73,74,65,6d,33,\
    32,5c,6e,74,76,64,6d,2e,65,78,65,00
"size"="0"
"wowcmdline"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,
25,5c,73,79,73,74,65,6d,\
    33,32,5c,6e,74,76,64,6d,2e,65,78,65,20,2d,61,20,25,53
,79,73,74,65,6d,52,6f,\
    6f,74,25,5c,73,79,73,74,65,6d,33,32,5c,6b,72,6e,6c,33
,38,36,00
"wowsize"="16"
"DefaultSeparateVDM"="no"
"LP_T_timeout"="15"
"KnownDLLs"="comm.drv cmdmgl.dll ct13dv2.dll
ddeml.dll keyboard.drv lanman.drv mapi.dll
mmsystem.dll mouse.drv netapi.dll olecli.dll
olesvr.dll pmspl.dll shell.dll sound.drv system.drv
toolhelp.dll vga.drv wfwnet.drv win87em.dll
winldap.mod winsock.dll winspool.exe wowdeb.exe
timer.drv rasapi16.dll compobj.dll storage.dll
ole2.dll ole2disp.dll ole2nls.dll typelib.dll
```

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msvideo.dll avifile.dll msacm.dll mciavi.drv
mciseq.drv mciwave.drv progman.exe avicap.dll"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\
hivelist]
"\REGISTRY\MACHINE\HARDWARE"=""
"\REGISTRY\MACHINE\SECURITY"=""\Device\Harddisk18
\Partition2\WINNT\system32\config\SECURITY"
"\REGISTRY\MACHINE\SOFTWARE"=""\Device\Harddisk18
\Partition2\WINNT\system32\config\software"
"\REGISTRY\MACHINE\SYSTEM"=""\Device\Harddisk18\
Partition2\WINNT\system32\config\system"
"\REGISTRY\USER\DEFAULT"=""\Device\Harddisk18\Par
tition2\WINNT\system32\config\default"
"\REGISTRY\MACHINE\SAM"=""\Device\Harddisk18\Par
tition2\WINNT\system32\config\SAM"
"\REGISTRY\USER\S-1-5-21-1467160443-2125360053-
619646970-
500"=""\Device\Harddisk18\Partition2\WINNT\Profil
es\Administrator\NTUSER.DAT"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\HTR
EE]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\HTR
EE\ROOT]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\HTR
EE\ROOT\0]
"FoundAtEnum"=dword:00000001
"AttachedComponents"=hex(7):52,6f,6f,74,5c,4c,45,47,4
1,43,59,5f,43,50,51,41,52,\
    52,41,59,5c,30,30,30,00,52,6f,6f,74,5c,4c,45,47,41
,43,59,5f,41,54,41,50,\
    49,5c,30,30,30,00,52,6f,6f,74,5c,4c,45,47,41,43,59
,5f,53,59,4d,43,38,31,\
    30,5c,30,30,30,00,52,6f,6f,74,5c,4c,45,47,41,43,59
,5f,44,49,53,4b,5c,30,\
    30,30,30,00,52,6f,6f,74,5c,4c,45,47,41,43,59,5f,4e,54
,46,53,5c,30,30,30,\
    00,52,6f,6f,74,5c,4c,45,47,41,43,59,5f,46,4c,4f,50,50
,59,5c,30,30,30,00,\
    52,6f,6f,74,5c,4c,45,47,41,43,59,5f,43,44,52,4f,4d,5c
,30,30,30,00,52,6f,\
    6f,74,5c,4c,45,47,41,43,59,5f,46,53,5f,52,45,43,5c,30
,30,30,00,52,6f,6f,\
    74,5c,4c,45,47,41,43,59,5f,4e,55,4c,4c,5c,30,30,30,30
,00,52,6f,6f,74,5c,4c,\
    45,47,41,43,59,5f,4b,53,45,43,44,44,5c,30,30,30,00,52,6f,6f,74,5c,4c,45,\
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47, 41, 43, 59, 5f, 42, 45, 45, 50, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, \

59, 5f, 4d, 4f, 55, 43, 4c, 41, 53, 53, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, \

43, 59, 5f, 4b, 42, 44, 43, 4c, 41, 53, 53, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, \

41, 43, 59, 5f, 56, 47, 41, 53, 41, 56, 45, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, \

41, 43, 59, 5f, 4d, 53, 46, 53, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, \

5f, 4e, 50, 46, 53, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4e, 44, \

49, 53, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 50, 41, 52, 41, 4c, \

4c, 45, 4c, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 50, 41, 52, 50, \

4f, 52, 54, 5c, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 50, 41, 52, 56, \

44, 4d, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 52, 50, 43, 53, 53, \

5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 53, 45, 52, 49, 41, 4c, 5c, \

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5f, 30, 5f, 33, 32, 5f, 30, 00, 52, 6f, 6f, 74, 5c, 2a, 50, 4e, 50, 30, 46, 30, 33, 5c, 31, 5f, 38, \

5f, 32, 31, 5f, 30, 5f, 33, 31, 5f, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 46, 41, \

53, 54, 46, 41, 54, 5c, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 43, 44, \

46, 53, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4e, 45, 54, 44, 45, \

54, 45, 43, 54, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 53, 50, 4f, \

4f, 4c, 45, 52, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 50, 52, 4f, \

4b, 44, 44, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 54, 43, 50, 49, \

50, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4e, 45, 54, 42, 54, 5c, \

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00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4c, 41, 4e, 4d, 41, 4e, 57, 4f, 52, 4b, 53, 54, \

41, 54, 49, 4f, 4e, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 41, 46, \

44, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 52, 44, 52, 5c, 30, 30, \

30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4d, 55, 50, 5c, 30, 30, 30, 30, 00, 52, \

6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4e, 45, 54, 42, 49, 4f, 53, 5c, 30, 30, 30, 30, 00, 52, \

6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4c, 4d, 48, 4f, 53, 54, 53, 5c, 30, 30, 30, 30, 00, 52, \

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6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 42, 52, 4f, 57, 53, 45, 52, 5c, 30, 30, 30, 30, 00, 52, \

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30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4c, 49, 43, 45, 4e, 53, 45, 53, 45, 53, 45, \

52, 56, 49, 43, 45, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4d, 45, \

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53, 52, 56, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 2a, 50, 4e, 50, 30, 33, 30, 62, 5c, 31, 5f, \

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5c, 31, 5f, 30, 5f, 32, 31, 5f, 30, 5f, 33, 31, 5f, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, \

59, 5f, 50, 52, 4f, 54, 45, 43, 54, 45, 44, 53, 54, 4f, 52, 41, 47, 45, 5c, 30, 30, 30, 30, 00, 52, \

6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 53, 59, 53, 4d, 47, 4d, 54, 5c, 30, 30, 30, 30, 00, 52, \

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74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 41, 54, 41, 4d, 41, 4e, 20, 54, 45, 4c, 4e, 45, 54, 44, 20, 53, \

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41, 4d, 41, 4e, 20, 52, 4c, 4f, 47, 49, 4e, 44, 20, 53, 45, 52, 56, 45, 52, 5c, 30, 30, 30, 30, 00, \

52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 41, 54, 41, 4d, 41, 4e, 20, 52, 45, 58, 45, 43, 44, \

20, 53, 45, 52, 56, 45, 52, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, \

41, 54, 41, 4d, 41, 4e, 20, 54, 43, 50, 20, 52, 45, 4d, 4f, 54, 45, 20, 4c, 4f, 47, 4f, 4e, 20, 53, \

45, 52, 56, 49, 43, 45, 53, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, \

43, 50, 51, 4b, 44, 44, 50, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, \

43, 50, 51, 4e, 46, 33, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 44, \

49, 53, 4b, 50, 45, 52, 46, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 2a, 50, 4e, 50, 30, 46, 31, \

32, 5c, 31, 5f, 30, 5f, 32, 31, 5f, 30, 5f, 33, 31, 5f, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, \

43, 59, 5f, 43, 50, 51, 44, 47, 44, 5c, 30, 30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, \

59, 5f, 43, 50, 51, 53, 4d, 47, 52, 4b, 5c, 30, 30, 30, 30, 00, 52, 4f, 4f, 54, 5c, 53, 43, 53, 49, \

41, 44, 41, 50, 54, 45, 52, 5c, 4f, 45, 4d, 30, 2e, 49, 4e, 46, 26, 43, 50, 51, 53, 4d, 52, 54, 32, \

00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 43, 50, 51, 33, 32, 46, 53, 32, 5c, 30, 30, 30, \

30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 4e, 43, 52, 43, 37, 31, 30, 5c, 30, 30, 30, \

30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 43, 50, 51, 46, 57, 53, 32, 45, 5c, 30, 30, \

30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 53, 43, 53, 49, 53, 43, 41, 4e, 5c, 30, \

30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 43, 50, 51, 52, 43, 4d, 43, 5c, 30, \

30, 30, 30, 00, 52, 6f, 6f, 74, 5c, 4c, 45, 47, 41, 43, 59, 5f, 43, 51, 49, 4d, 44, 53, 56, 43, 5c, \

30,30,30,30,00,52,6f,6f,74,5c,4c,45,47,41,43,59,5f,53,59,53,44,4f,57,4e,5c,\

30,30,30,30,00,52,4f,4f,54,5c,4c,45,47,41,43,59,5f,43,50,51,41,52,52,59,32,\

5c,30,30,30,30,00,52,6f,6f,74,5c,4c,45,47,41,43,59,5f,43,50,51,44,41,45,4e,\

5c,30,30,30,30,00,52,6f,6f,74,5c,4c,45,47,41,43,59,5f,50,52,4c,4e,54,53,53,\
5c,30,30,30,30,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP030b\i_8_22_0_32_0\Control]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP030b]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP030b\i_0_22_0_32_0]
"HardwareID"=hex(7):2a,50,4e,50,30,33,30,62,00
"BaseDevicePath"="HTREE\ROOT\0"
"FoundAtEnum"=dword:00000001
"Service"="i8042prt"
"ClassGUID"="{4D36E96B-E325-11CE-BFC1-08002BE10318}"
"Class"="Keyboard"
"Driver"="{4D36E96B-E325-11CE-BFC1-08002BE10318}\0001"
"Mfg"="(Standard keyboards)"
"DeviceDesc"="PC/AT Enhanced Keyboard (101/102-Key)"
"ConfigFlags"=dword:00000000
"Problem"=dword:00000000
"StatusFlags"=dword:00000008

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP030b\i_0_22_0_32_0\LogConf]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP030b\i_0_22_0_32_0\Control]
"ActiveService"="i8042prt"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP030b\i_8_22_0_32_0]
"HardwareID"=hex(7):2a,50,4e,50,30,33,30,62,00
"BaseDevicePath"="HTREE\ROOT\0"
"FoundAtEnum"=dword:00000000
"Service"="i8042prt"
"ClassGUID"="{4D36E96B-E325-11CE-BFC1-08002BE10318}"
"Class"="Keyboard"
"Driver"="{4D36E96B-E325-11CE-BFC1-08002BE10318}\0000"
"Mfg"="(Standard keyboards)"
"DeviceDesc"="PC/AT Enhanced Keyboard (101/102-Key)"
"ConfigFlags"=dword:00000000
"Problem"=dword:00000000
"StatusFlags"=dword:40000008

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP030b\i_8_22_0_32_0\LogConf]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP030b\i_8_22_0_32_0\Control]
"ActiveService"="i8042prt"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F03]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F03\i_0_21_0_31_0]
"HardwareID"=hex(7):2a,50,4e,50,30,46,30,33,00
"BaseDevicePath"="HTREE\ROOT\0"
"FoundAtEnum"=dword:00000000
"Service"="i8042prt"
"ClassGUID"="{4D36E96F-E325-11CE-BFC1-08002BE10318}"
"Class"="Mouse"
"Driver"="{4D36E96F-E325-11CE-BFC1-08002BE10318}\0001"
"Mfg"="Microsoft"
"DeviceDesc"="Microsoft PS/2 Port Mouse"
"ConfigFlags"=dword:00000000
"Problem"=dword:00000000
"StatusFlags"=dword:40000008

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F03\i_0_21_0_31_0\LogConf]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F03\i_0_21_0_31_0\Control]
"ActiveService"="i8042prt"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F03\i_8_21_0_31_0]
"HardwareID"=hex(7):2a,50,4e,50,30,46,30,33,00
"BaseDevicePath"="HTREE\ROOT\0"
"FoundAtEnum"=dword:00000000
"Service"="i8042prt"
"ClassGUID"="{4D36E96F-E325-11CE-BFC1-08002BE10318}"
"Class"="Mouse"
"Driver"="{4D36E96F-E325-11CE-BFC1-08002BE10318}\0000"
"Mfg"="Microsoft"
"DeviceDesc"="Microsoft PS/2 Port Mouse"
"ConfigFlags"=dword:00000000
"Problem"=dword:00000000
"StatusFlags"=dword:40000008

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F03\i_8_21_0_31_0\LogConf]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F03\i_8_21_0_31_0\Control]
"ActiveService"="i8042prt"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F12]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F12\i_0_21_0_31_0]
"HardwareID"=hex(7):2a,50,4e,50,30,46,31,32,00,00
"BaseDevicePath"="HTREE\ROOT\0"
"FoundAtEnum"=dword:00000001
"ClassGUID"="{4d36e96f-e325-11ce-bfc1-08002be10318}"
"Class"="Mouse"

"Service"="i8042prt"
"Driver"="{4D36E96F-E325-11CE-BFC1-08002BE10318}\0002"
"Mfg"="Logitech"
"DeviceDesc"="Logitech PS/2 Port Mouse"
"ConfigFlags"=dword:00000000
"Problem"=dword:00000000
"StatusFlags"=dword:00000008

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F12\i_0_21_0_31_0\LogConf]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root*\PNP0F12\i_0_21_0_31_0\Control]
"ActiveService"="i8042prt"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_AFD]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_AFD\0000]
"Service"="Afd"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="AFD Networking Support Environment"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_AFD\0000\Control]
"ActiveService"="Afd"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ALERTER]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ALERTER\0000]
"Service"="Alerter"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Alerter"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ALERTER\0000\Control]
"ActiveService"="Alerter"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAMAN_REXEC_SERVER]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAMAN_REXEC_SERVER\0000]
"Service"="Ataman Rexecd Server"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"

```
"ClassGUID"="{4D36E97E-E325-11CE-BF1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Ataman Rexecd Server"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAMAN_RLOGIND_SERVER]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAMAN_RLOGIND_SERVER\0000]
"Service"="Ataman Rlogind Server"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BF1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Ataman Rlogind Server"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAMAN_TCP_REMOTE_LOGON_SERVICES]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAMAN_TCP_REMOTE_LOGON_SERVICES\0000]
"Service"="Ataman TCP Remote Logon Services"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BF1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Ataman TCP Remote Logon Services"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAMAN_TELNETD_SERVER]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAMAN_TELNETD_SERVER\0000]
"Service"="Ataman Telnetd Server"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BF1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Ataman Telnetd Server"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAPI]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAPI\0000]
"Service"="atapi"
"FoundAtEnum"=dword:00000001
"Class"="SCSIAdapter"
"ClassGUID"="{4D36E97B-E325-11CE-BF1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
```

```
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="IDE CD-ROM (ATAPI 1.2)/Dual-channel PCI IDE Controller "
"Driver"="{4D36E97B-E325-11CE-BF1-08002BE10318}\0000"
"Mfg"="(Standard mass storage controllers)"
"HardwareID"=hex(7):61,74,61,70,69,5f,73,63,73,69,00,00
"ConfigFlags"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAPI\0000\LogConf]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATAPI\0000\Control]
"ActiveService"="atapi"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATI]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATI\0000]
"BaseDevicePath"="HTREE\ROOT\0"
"FoundAtEnum"=dword:00000001
"ClassGUID"="{4D36E968-E325-11CE-BF1-08002BE10318}"
"Class"="Display"
"StatusFlags"=dword:00000008
"Driver"="{4D36E968-E325-11CE-BF1-08002BE10318}\0000"
"Mfg"="ATI Technologies Inc."
"Service"="ati"
"DeviceDesc"="ATI Technologies Inc. mach 8 Graphics Accelerator"
"ConfigFlags"=dword:00000000
"Problem"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATI\0000\LogConf]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_ATI\0000\Control]
"ActiveService"="ati"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_BEEP]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_BEEP\0000]
"Service"="Beep"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BF1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Beep Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_BEEP\0000\Control]
"ActiveService"="Beep"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_BROWSER]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_BROWSER\0000]
"Service"="Browser"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BF1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Computer Browser"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CDFS]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CDFS\0000]
"Service"="Cdfs"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BF1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Cdfs Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CDFS\0000\Control]
"ActiveService"="Cdfs"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CDROM]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CDROM\0000]
"Service"="Cdrom"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BF1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Cdrom Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CDROM\0000\Control]
"ActiveService"="Cdrom"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQ32FS2]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQ32FS2\0000]
"BaseDevicePath"="HTREE\ROOT\0"
"FoundAtEnum"=dword:00000001
"ClassGUID"="{4D36E97B-E325-11CE-BF1-08002BE10318}"
"Class"="SCSIAdapter"
"StatusFlags"=dword:00000008
```

```
"Driver"="{4D36E97B-E325-11CE-BFC1-08002BE10318}\\0001"
"Mfg"="Compaq"
"HardwareID"=hex(7):63,70,71,33,32,66,73,32,5f,73,63,73,69,00,00
"Service"="cpq32fs2"
"DeviceDesc"="Compaq SCSI Controllers"
"ConfigFlags"=dword:00000000
"Problem"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQ32FS2\0000\LogConf]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQ32FS2\0000\Control]
"ActiveService"="cpq32fs2"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQARRAY]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQARRAY2]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQDAEN]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQDAEN\0000]
"Service"="CPQDAEN"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:0000000a
"StatusFlags"=dword:00000400
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq Drive Array Event Notification Driver"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQDAEN\0000\Control]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQDGD]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQDGD\0000]
"Service"="CPQDGD"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="CPQDGD"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQFWS2E]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQFWS2E\0000]
"Service"="CPQFWS2E"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="CPQFWS2E Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQKDDP]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQKDDP\0000]
"Service"="CPQKDDP"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq Kernel Device Driver"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQNF3]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQNF3\0000]
"Service"="CpQNF3"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq NetFlex-3 Driver"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQRCMC]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQRCMC\0000]
"Service"="CPQRCMC"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq Remote Monitor Service"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQRCMC\0000\Control]
"ActiveService"="CPQRCMC"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQSETUP]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQSETUP\0000]
"Service"="CPQSETUP"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq Support Software Service"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQSMGRK]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQSMGRK\0000]
"Service"="CpqSMgrk"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="CpqSMgrk Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CPQSMGRK\0000\Control]
"ActiveService"="CpqSMgrk"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CQIMDSVC]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CQIMDSVC\0000]
"Service"="CQIMDSVC"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq Enhanced IMD Idle Screen"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_CQIMDSVC\0000\Control]
"ActiveService"="CQIMDSVC"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_DISK]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_DISK\0000]
"Service"="Disk"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
```

```

"DeviceDesc"="Disk Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_DISKPERF\0000\Control]
"ActiveService"="Disk"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_DISKPERF]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_DISKPERF\0000]
"Service"="Diskperf"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Diskperf Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_FASTFAT]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_FASTFAT\0000]
"Service"="Fastfat"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Fastfat Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_FASTFAT\0000\Control]
"ActiveService"="Fastfat"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_FLOPPY]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_FLOPPY\0000]
"Service"="Floppy"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Floppy Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_FLOPPY\0000\Control]
"ActiveService"="Floppy"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_FS_REC]
"NextInstance"=dword:00000001

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_FS_REC\0000]
"Service"="Fs Rec"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Fs Rec Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_FS_REC\0000\Control]
"ActiveService"="Fs Rec"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_KBDCLASS]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_KBDCLASS\0000]
"Service"="Kbdclass"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Kbdclass Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_KBDCLASS\0000\Control]
"ActiveService"="Kbdclass"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_KSECDD]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_KSECDD\0000]
"Service"="KSecDD"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="KSecDD Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_KSECDD\0000\Control]
"ActiveService"="KSecDD"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_LANMANSERVER]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_LANMANSERVER\0000]
"Service"="LanmanServer"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"

```

```

"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Server"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_LANMANWORKSTATION]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_LANMANWORKSTATION\0000]
"Service"="LanmanWorkstation"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Workstation"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_LANMANWORKSTATION\0000\Control]
"ActiveService"="LanmanWorkstation"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_LICENSESERVICE]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_LICENSESERVICE\0000]
"Service"="LicenseService"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="License Logging Service"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_LMHOSTS]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_LMHOSTS\0000]
"Service"="LmHosts"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="TCP/IP NetBIOS Helper"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MESSENGER]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MESSENGER\0000]
"Service"="Messenger"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"

```

```

"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Messenger"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MOUCLASS]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MOUCLASS\0000]
"Service"="Mouclass"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Mouclass Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MOUCLASS\0000\Control]
"ActiveService"="Mouclass"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MSFS]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MSFS\0000]
"Service"="Msfs"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Msfs Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MSFS\0000\Control]
"ActiveService"="Msfs"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MSSQLSERVER]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MSSQLSERVER\0000]
"Service"="MSSQLServer"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="MSSQLServer"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MUP]
"NextInstance"=dword:00000001

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MUP\0000]
"Service"="Mup"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Mup"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_MUP\0000\Control]
"ActiveService"="Mup"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_N100]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_N100\0000]
"Service"="N100"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq Ethernet or Fast Ethernet NIC Driver"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_N100\0000\Control]
"ActiveService"="N100"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NBF]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NBF\0000]
"Service"="Nbf"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="NetBEUI Protocol"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NBF\0000\Control]
"ActiveService"="Nbf"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NCR710]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NCR710\0000]
"Service"="NCR710"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"

```

```

"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="NCR710 Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NDIS]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NDIS\0000]
"Service"="NDIS"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Microsoft NDIS System Driver"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NDIS\0000\Control]
"ActiveService"="NDIS"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NETBIOS]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NETBIOS\0000]
"Service"="NetBIOS"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="NetBIOS Interface"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NETBT]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NETBT\0000]
"Service"="NetBT"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="WINS Client (TCP/IP)"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NETBT\0000\Control]
"ActiveService"="NetBT"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NETDETECT]
"NextInstance"=dword:00000001

```



```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NETDETECT\0000]
"Service"="NetDetect"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="NetDetect"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NPFS]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NPFS\0000]
"Service"="Npfs"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Npfs Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NPFS\0000\Control]
"ActiveService"="Npfs"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NTFS]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NTFS\0000]
"Service"="Ntfs"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Ntfs Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NTFS\0000\Control]
"ActiveService"="Ntfs"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NTLMSSP]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NTLMSSP\0000]
"Service"="NtLmSsp"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="NT LM Security Support Provider"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NULL]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NULL\0000]
"Service"="Null"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Null Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_NULL\0000\Control]
"ActiveService"="Null"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PARALLEL]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PARALLEL\0000]
"Service"="Parallel"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Parallel Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PARALLEL\0000\Control]
"ActiveService"="Parallel"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PARPORT]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PARPORT\0000]
"Service"="Parport"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Parport Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PARPORT\0000\Control]
"ActiveService"="Parport"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PARVDM]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PARVDM\0000]
"Service"="ParVdm"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="ParVdm Device"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PARVDM\0000\Control]
"ActiveService"="ParVdm"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PRLNTSS]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PRLNTSS\0000]
"Service"="PRLNTSS"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq ProLiant Storage System Driver"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PRLNTSS\0000\Control]
"ActiveService"="PRLNTSS"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PROKDD]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PROKDD\0000]
"Service"="PROKDD"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="PROKDD"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PROTECTEDSTORAGE]
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_PROTECTEDSTORAGE\0000]
"Service"="ProtectedStorage"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Protected Storage"
```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_RDR]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_RDR\0000]
"Service"="Rdr"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Rdr"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_RDR\0000\Control]
"ActiveService"="Rdr"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_RPCSS]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_RPCSS\0000]
"Service"="RpcSs"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Remote Procedure Call (RPC) Service"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_RPCSS\0000\Control]
"ActiveService"="RpcSs"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SCSISCAN]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SCSISCAN\0000]
"Service"="Scsiscan"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:0000000a
"StatusFlags"=dword:00000400
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Scsiscan Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SCSISCAN\0000\Control]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SERIAL]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SERIAL\0000]

```

```

"Service"="Serial"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Serial Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SERIAL\0000\Control]
"ActiveService"="Serial"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SPOOLER]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SPOOLER\0000]
"Service"="Spooler"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Spooler Service"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SRV]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SRV\0000]
"Service"="Srv"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000000
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Srv"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SYMC810]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SYSDOWN]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SYSDOWN\0000]
"Service"="SysDown"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq System Shutdown Service"

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SYSDOWN\0000\Control]
"ActiveService"="SysDown"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SYSMGMT]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SYSMGMT\0000]
"Service"="SysMgmt"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="Compaq System Management Driver"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_SYSMGMT\0000\Control]
"ActiveService"="SysMgmt"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_TCPIP]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_TCPIP\0000]
"Service"="Tcpip"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="TCP/IP Service"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_TCPIP\0000\Control]
"ActiveService"="Tcpip"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_VGASAVE]
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_VGASAVE\0000]
"Service"="VgaSave"
"FoundAtEnum"=dword:00000001
"Class"="Unknown"
"ClassGUID"="{4D36E97E-E325-11CE-BFC1-08002BE10318}"
"Problem"=dword:00000000
"StatusFlags"=dword:00000008
"BaseDevicePath"="HTREE\ROOT\0"
"DeviceDesc"="VgaSave Device"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\LEGACY_VGASAVE\0000\Control]
"ActiveService"="VgaSave"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\SCSIADAPTER]

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```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\SCSIADAPTER\OEM0_INF&CPQSMRT2]
"BaseDevicePath"="HTREE\ROOT\0"
"FoundAtEnum"=dword:00000001
"ClassGUID"="{4D36E97B-E325-11CE-BF01-08002BE10318}"
"Class"="SCSIAdapter"
"StatusFlags"=dword:00000008
"Driver"="{4D36E97B-E325-11CE-BF01-08002BE10318}\0003"
"Service"="CpqSMRT2"
"Mfg"="(Additional models)"
"DeviceDesc"="Compaq SMART-2 Array Controllers ECI Driver"
"ConfigFlags"=dword:00000000
"Problem"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\Root\SCSIADAPTER\OEM0_INF&CPQSMRT2\Control]
"ActiveService"="CpqSMRT2"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\Software]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System\CurrentControlSet]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System\CurrentControlSet\Control]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System\CurrentControlSet\Control\Class]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System\CurrentControlSet\Enum]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System\CurrentControlSet\Services]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System\CurrentControlSet\Services\ati]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System\CurrentControlSet\Services\ati\Device0]
"DefaultSettings.BitsPerPel"=dword:00000008
"DefaultSettings.XResolution"=dword:00000400
"DefaultSettings.YResolution"=dword:00000300
"DefaultSettings.VRefresh"=dword:0000003c
"DefaultSettings.Flags"=dword:00000000
"DefaultSettings.XPanning"=dword:00000000
"DefaultSettings.YPanning"=dword:00000000
```

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System\CurrentControlSet\Services\VgaSave]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\0001\System\CurrentControlSet\Services\VgaSave\Device0]
"DefaultSettings.BitsPerPel"=dword:00000004
"DefaultSettings.XResolution"=dword:00000280
"DefaultSettings.YResolution"=dword:000001e0
"DefaultSettings.VRefresh"=dword:00000001
"DefaultSettings.Flags"=dword:00000000
"DefaultSettings.XPanning"=dword:00000000
"DefaultSettings.YPanning"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\Software]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\System]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\System\CurrentControlSet]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\System\CurrentControlSet\Control]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\System\CurrentControlSet\Control\Class]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\System\CurrentControlSet\Enum]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\System\CurrentControlSet\Services]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\System\CurrentControlSet\Services\ati]
"DefaultSettings.BitsPerPel"=dword:00000008
"DefaultSettings.XResolution"=dword:00000400
"DefaultSettings.YResolution"=dword:00000300
"DefaultSettings.VRefresh"=dword:0000003c
"DefaultSettings.Flags"=dword:00000000
"DefaultSettings.XPanning"=dword:00000000
"DefaultSettings.YPanning"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\System\CurrentControlSet\Services\VgaSave]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Hardware Profiles\Current\System\CurrentControlSet\Services\VgaSave\Device0]
"DefaultSettings.BitsPerPel"=dword:00000004
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```
"DefaultSettings.XResolution"=dword:00000280
"DefaultSettings.YResolution"=dword:000001e0
"DefaultSettings.VRefresh"=dword:00000001
"DefaultSettings.Flags"=dword:00000000
"DefaultSettings.XPanning"=dword:00000000
"DefaultSettings.YPanning"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Abiosdisk]
"Type"=dword:00000001
"Start"=dword:00000004
"ErrorControl"=dword:00000000
"Group"="Primary disk"
"Tag"=dword:00000003

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Afd]
"Type"=dword:00000001
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5c,53,79,73,74,65,6d,33,32,5c,5c,64,72,69,76,65,72,73,5c,61,66,64,2e,73,79,73,00
"DisplayName"="AFD Networking Support Environment"
"Group"="TDI"
"DependOnGroup"=hex(7):00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Afd\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Afd\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Afd\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Afd\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,70,00,69,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,70,00,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,70,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00,70,00,00,00,00,18,\
```

```

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,
,02,00,00,01,01,00,00,\

00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,
,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Afd\Enum]
"0"="Root\LEGACY_AFD\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Aha154x]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000006

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Aha174x]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000008

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\aic78xx]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000001e

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Alerter]
"Type"=dword:00000020
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,5c,53,79,73,74,65,6d,33,\
32,5c,73,65,72,76,69,63,65,73,2e,65,78,65,00
"DisplayName"="Alerter"
"DependOnService"=hex(7):4c,61,6e,6d,61,6e,57,6f,72,6
b,73,74,61,74,69,6f,6e,00,\
00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Alerter\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Alerter\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Alerter\Parameters]
"AlertNames"=hex(7):00

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Alerter\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,25,02,00,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,04,00,04,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,04,00,04
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00
,04,00,04,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,
,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
\Alerter\Enum]
"0"="Root\LEGACY_ALERTER\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Always]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000014

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\ami0nt]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000000d

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\amsint]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000024

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Arrow]
"Type"=dword:00000001
"Start"=dword:00000004

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"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000015

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Ataman Rexecd Server]
"Type"=dword:00000010
"Start"=dword:00000004
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,61,74,61,6d,61,6e,5c,52,4
5,58,45,43,44,2e,45,58,45,\
00
"DisplayName"="Ataman Rexecd Server"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Ataman Rexecd Server\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,74,00,6f,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,72,00,00,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,72,00,00
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00
,72,00,00,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,00,05,12,00,00,00,25
,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
\Ataman Rexecd Server\Enum]
"0"="Root\LEGACY_ATAMAN REXECD SERVER\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Ataman Rlogind Server]
"Type"=dword:00000010
"Start"=dword:00000004
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,61,74,61,6d,61,6e,5c,52,4
c,4f,47,49,4e,44,2e,45,58,\
45,00
"DisplayName"="Ataman Rlogind Server"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Ataman Rlogind Server\Security]

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"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,01,00,00,00,00,74,00,6f,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,72,00,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,00,20,02,00,00,72,00,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00,72,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ataman Rlogind Server\Enum]
"0"="Root\LEGACY_ATAMAN RLOGIND SERVER\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ataman TCP Remote Logon Services]
"Type"=dword:00000010
"Start"=dword:00000004
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,61,74,61,6d,61,6e,5c,61,74,72,6c,73,2e,65,78,65,00
"DisplayName"="Ataman TCP Remote Logon Services"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ataman TCP Remote Logon Services\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,01,00,00,00,00,74,00,69,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,76,00,65,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,00,20,02,00,00,76,00,65,00,00,00,1c,00,ff,01,\
00,00,00,1c,00,ff,01,\

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0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00,76,00,65,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ataman TCP Remote Logon Services\Enum]
"0"="Root\LEGACY_ATAMAN TCP REMOTE LOGON SERVICES\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ataman Telnetd Server]
"Type"=dword:00000010
"Start"=dword:00000004
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,61,74,61,6d,61,6e,5c,54,45,4c,4e,45,54,44,2e,45,58,\
45,00
"DisplayName"="Ataman Telnetd Server"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ataman Telnetd Server\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,01,00,00,00,00,74,00,69,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,76,00,65,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,00,20,02,00,00,76,00,65,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00,76,00,65,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ataman Telnetd Server\Enum]
"0"="Root\LEGACY_ATAMAN TELNETD SERVER\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\atap1]
"Type"=dword:00000001
"Start"=dword:00000000
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000019
"ImagePath"=hex(2):53,79,73,74,65,6d,33,32,5c,44,52,49,56,45,52,53,5c,61,74,61,\
70,69,2e,73,79,73,00
"PlugPlayServiceType"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\atap1\Enum]
"0"="Root\LEGACY_ATAPI\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Atdisk]
"Type"=dword:00000001
"Start"=dword:00000004
"ErrorControl"=dword:00000000
"Group"="Primary disk"
"Tag"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ati]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Video"
"ErrorControl"=dword:00000000
"ImagePath"=hex(2):53,79,73,74,65,6d,33,32,5c,44,52,49,56,45,52,53,5c,61,74,69,\
2e,73,79,73,00
"Tag"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ati\Device0]
"VgaCompatible"=dword:00000000
"InstalledDisplayDrivers"=hex(7):61,74,69,00,00
"Device Description"="ATI Technologies Inc. 3D RAGE IIC"
"AllowedPixelDepth"=hex:00
"AllowedRefreshRate"=hex:00
"AllowedResolution"=hex:00
"BlockWriteDisabled"=dword:00000000
"DDC2Disabled"=dword:00000000
"FastFillDisabled"=dword:00000000
"HDVTEEnabled"=dword:00000000
"TimingSelection"=dword:00000002
"HardwareInformation.Crc32"=hex:0e,a6,0c,ca
"DDC2Supported"=hex:00,00,00,00
"FileToRead"=hex:5c,00,53,00,79,00,73,00,74,00,65,00,6d,00,52,00,6f,00,6f,00,\
74,00,5c,00,53,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,64,00,72,\
00,69,00,76,00,65,00,72,00,73,00,5c,00,61,00,74,00,69,00,76,00,64,00,69,00,\
66,00,2e,00,64,00,61,00,74,00,00,00

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"HardwareInformation.ChipType"=hex:41,00,54,00,49,00,
20,00,33,00,44,00,20,00,\
52,00,41,00,47,00,45,00,20,00,49,00,49,00,43,00,20,00,
,28,00,47,00,54,00,2d,\
00,42,00,33,00,55,00,31,00,29,00,00,00
"HardwareInformation.DacType"=hex:41,00,54,00,49,00,2
0,00,49,00,6e,00,74,00,65,\
00,72,00,6e,00,61,00,6c,00,20,00,44,00,41,00,43,00,00
,00
"HardwareInformation.MemorySize"=hex:00,00,20,00
"HardwareInformation.AdapterString"=hex:41,00,54,00,4
9,00,20,00,47,00,72,00,61,\
00,70,00,68,00,69,00,63,00,73,00,20,00,41,00,63,00,63
,00,65,00,6c,00,65,00,\
72,00,61,00,74,00,6f,00,72,00,00,00
"HardwareInformation.BiosString"=hex:53,00,47,00,52,0
0,41,00,4d,00,20,00,42,00,\
49,00,4f,00,53,00,20,00,33,00,2e,00,30,00,39,00,35,00
,00,00
"MonitorID"=hex:00,00,00,00,00,00,47,00,65,00,6e,00,6
5,00,72,00,69,00,63,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00
,00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00
,00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00
,00,00,00,00,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00
,00,00,00,00,00,00
"CustomCRTTimings"=hex:00
"TVOutAdjustments"=hex:00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\ati\Enum]
"0"="Root\LEGACY_ATI\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Beep]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Base"
"ErrorControl"=dword:00000001
"Tag"=dword:00000002

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Beep\Enum]
"0"="Root\LEGACY_BEEP\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Browser]
"Type"=dword:00000020
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,5c,53,79,73,74,65,6d,33,\
32,5c,73,65,72,76,69,63,65,73,2e,65,78,65,00
"DisplayName"="Computer Browser"
"DependOnService"=hex(7):4c,61,6e,6d,61,6e,57,6f,72,6
b,73,74,61,74,69,6f,6e,00,\
4c,61,6e,6d,61,6e,53,65,72,76,65,72,00,4c,6d,48,6f,73
,74,73,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Browser\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Browser\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Browser\Parameters]
"MaintainServerList"="Auto"
"IsDomainMaster"="FALSE"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Browser\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,72,00,76,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,69,00,63,00,00,00
,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,69,00,63
,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00
,69,00,63,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,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
\Browser\Enum]
"0"="Root\LEGACY_BROWSER\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\BusLogic]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000001b

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Busmouse]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Pointer Port"
"ErrorControl"=dword:00000000
"Tag"=dword:00000003

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Busmouse\Parameters]
"MouseDataQueueSize"=dword:00000064
"NumberOfButtons"=dword:00000002
"SampleRate"=dword:00000032
"PointerDeviceBaseName"="PointerPort"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Cdaudio]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Filter"
"ErrorControl"=dword:00000000
"Tag"=dword:00000006

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Cdaudio\Enum]
"Count"=dword:00000000
"NextInstance"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Cdfs]
"Type"=dword:00000002
"Start"=dword:00000004
"Group"="File system"
"ErrorControl"=dword:00000001
"DependOnGroup"=hex(7):53,43,53,49,20,43,44,52,4f,4d,
20,43,6c,61,73,73,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Cdfs\Enum]
"0"="Root\LEGACY_CDFS\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Cdrom]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="SCSI CDROM Class"
"ErrorControl"=dword:00000000
"Tag"=dword:00000002
"DependOnGroup"=hex(7):53,43,53,49,20,6d,69,6e,69,70,
6f,72,74,00,00
"Autorun"=dword:00000001

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Cdrom\Enum]
"0"="Root\LEGACY_CDROM\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Changer]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Filter"
"ErrorControl"=dword:00000000
"Tag"=dword:00000005

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Changer\Enum]
"Count"=dword:00000000
"NextInstance"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cirrus]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cirrus\Device0]
"VgaCompatible"=dword:00000001
"InstalledDisplayDrivers"=hex(7):76,67,61,00,63,69,72,72,75,73,00,76,67,61,32,\
35,36,00,76,67,61,36,34,4b,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ClipSrv]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,73,79,73,74,65,6d,33,\
32,5c,63,6c,69,70,73,72,76,2e,65,78,65,00
"DependOnService"=hex(7):4e,65,74,44,44,45,00,00
"DisplayName"="ClipBook Server"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ClipSrv\Security]
"Security"=hex:01,00,14,80,9c,00,00,00,a8,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,02,00,02,00,68,00,04,00,00,00,00,03,18,00,8d,00,02,00,01,01,00,\
00,00,00,01,00,00,00,00,00,00,00,00,00,03,18,00,ff,01,0f,00,01,02,00,00,\
00,00,05,20,00,00,00,20,02,00,00,00,03,18,00,8f,00,02,00,01,02,00,00,00,\

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00,00,05,20,00,00,00,23,02,00,00,03,18,00,9d,00,00,00,01,01,00,00,00,00,\
00,05,04,00,00,00,23,02,00,00,01,01,00,00,00,00,05,12,00,00,00,01,01,00,\
00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cpq32fs2]
"Type"=dword:00000001
"Start"=dword:00000000
"ErrorControl"=dword:00000001
"Tag"=dword:0000001a
"ImagePath"=hex(2):53,79,73,74,65,6d,33,32,5c,44,52,49,56,45,52,53,5c,63,70,71,\
33,32,66,73,32,2e,73,79,73,00
"Group"="SCSI Miniport"
"PlugPlayServiceType"=dword:00000001
"RequestedSystemResources"=hex(a):48,01,00,00,05,00,0,00,00,00,00,2d,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,01,00,00,00,01,00,01,00,09,00,00,00,\
00,02,03,00,00,00,00,35,00,00,00,35,00,00,00,00,00,00,00,00,00,00,\
00,00,00,00,00,00,01,01,01,00,01,00,00,00,00,01,00,00,01,00,00,00,2c,\
00,00,00,00,00,ff,2c,00,00,00,00,00,00,08,01,01,00,01,00,00,00,01,00,\
00,00,01,03,01,00,\
00,00,00,00,01,00,00,00,01,00,00,00,ca,f7,00,00,00,00,ff,00,ca,f7,00,\
00,00,00,08,03,01,00,00,00,00,00,01,00,00,00,01,00,00,00,ca,f7,00,00,\
00,00,ff,00,ca,f7,00,00,00,08,03,01,00,00,00,00,00,01,00,00,00,01,00,\
00,00,c9,f7,00,00,00,ff,0f,c9,f7,00,00,00,00,01,03,01,00,00,00,00,\
00,10,00,00,00,10,00,00,00,c9,f7,00,00,00,ff,0f,c9,f7,00,00,00,08,\
03,01,00,00,00,00,10,00,00,10,00,00,10,00,00,00,ca,f7,00,00,00,ff,00,\
ca,f7,00,00,00,08,03,01,00,00,00,00,10,00,00,10,00,00,00,00,c9,\
f7,00,00,00,ff,0f,c9,f7,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cpq32fs2\Parameters]

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cpq32fs2\Parameters\Device]
"NumberOfRequests"=dword:000000a4

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cpq32fs2\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,74,00,69,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,23,02,00,00,76,00,65,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,20,02,00,00,76,00,65,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,25,02,00,00,76,00,65,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cpq32fs2\Enum]
"0"="Root\LEGACY_CPQ32FS2\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Cpqarray]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000100
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5c,53,79,73,74,65,6d,33,32,\
5c,44,52,49,56,45,52,53,5c,63,70,71,61,72,72,61,79,2e,73,79,73,00
"PlugPlayServiceType"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cpqarray2]
"Type"=dword:00000001
"Start"=dword:00000000
"ErrorControl"=dword:00000001
"Tag"=dword:00000102
"ImagePath"="System32\drivers\CPQARRAY2.SYS"
"Group"="SCSI Miniport"
"PlugPlayServiceType"=dword:00000001

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"RequestedSystemResources"=hex(a):c8,00,00,00,05,00,0
0,00,04,00,00,00,05,00,00,\

00,00,00,00,00,00,00,00,00,00,00,00,00,00,01,00,00,00,01
,00,01,00,05,00,00,00,\

00,02,03,00,00,00,00,00,14,00,00,00,14,00,00,00,00,00,00
,00,00,00,00,00,00,\

00,00,00,00,00,00,00,01,03,01,00,00,00,00,00,00,10,00
,00,00,10,00,00,00,00,\

ed,f7,00,00,00,00,ff,0f,ed,f7,00,00,00,00,08,03,01,00
,00,00,00,00,00,10,00,\

00,00,10,00,00,00,00,ed,f7,00,00,00,00,ff,0f,ed,f7,00
,00,00,00,01,01,01,00,\

01,00,00,00,00,01,00,00,00,01,00,00,00,4c,00,00,00,00
,00,00,ff,4c,00,00,00,\

00,00,00,08,01,01,00,01,00,00,00,01,00,00,00,01,00,00
,00,00,4c,00,00,00,00,\
    00,00,ff,4c,00,00,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\cpqarry2\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\cpqarry2\Parameters\Device]
"NumberOfRequests"=dword:00000080

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\cpqarry2\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,74,00,69,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,76,00,65,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,76,00,65
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00
,76,00,65,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,02,00,00,01,01,00,00,\

00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,00
,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CPQDAEN]

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"DisplayName"="Compaq Drive Array Event Notification
Driver"
"ErrorControl"=dword:00000001
"Group"="SCSI class"
"ImagePath"="System32\drivers\CPQDAEN.SYS"
"Start"=dword:00000001
"Type"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CPQDAEN\Enum]
"0"="Root\LEGACY_CPQDAEN\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CPQDAEN\Logs]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\cpqfws2e]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000026

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\cpqfws2e\Enum]
"0"="Root\LEGACY_CPQFWS2E\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CPQRMC]
"Type"=dword:00000110
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):53,59,53,54,45,4d,33,32,5c,43,50,5
1,52,43,4d,43,2e,45,58,45,\
    00
"DisplayName"="Compaq Remote Monitor Service"
"DependOnService"=hex(7):53,79,73,4d,67,6d,74,00,00
,61,73,65,00,00
"ObjectName"="LocalSystem"
"Tag"=dword:00000003
"Group"="CPQRMC"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CPQRMC\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CPQRMC\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CPQRMC\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CPQRMC\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

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00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,60,12,15,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,00,00,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,00,00
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00
,00,00,00,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,02,00,00,01,01,00,00,\

00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00
,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CPQRMC\Enum]
"0"="Root\LEGACY_CPQRMC\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CpqSMgrk]
"Group"="System Bus Extender"
"Type"=dword:00000001
"Start"=dword:00000000
"ErrorControl"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CpqSMgrk\Enum]
"0"="Root\LEGACY_CPQSMGRK\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CpqSMRT2]
"Type"=dword:00000001
"Start"=dword:00000000
"ErrorControl"=dword:00000001
"Tag"=dword:00000001
"ImagePath"=hex(2):53,79,73,74,65,6d,33,32,5c,64,72,6
9,76,65,72,73,5c,43,50,51,\
    53,4d,52,54,32,2e,53,59,53,00
"Group"="Primary disk"
"PlugPlayServiceType"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CpqSMRT2\Parameters]
"InterruptMask"=dword:fffffffb
"DynamicMask"=dword:fffffffb

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CpqSMRT2\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

```



```

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,
,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,
,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,00,00,00,00,00,1c,00,fd,
,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,00,00,00,00,00,
,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,20,02,00,00,00,00,00,
,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00,
,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,
,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,
,00,00

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CpqSMRT2\Enum]
"0"="Root\SCSIADAPTER\OEM0.INF\CpqSMRT2"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CQIMDSVC]
"Type"=dword:00000010
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):53,59,53,54,45,4d,33,32,5c,43,51,4
9,4d,44,53,56,43,2e,45,58,\
45,00
"DisplayName"="Compaq Enhanced IMD Idle Screen"
"DependOnService"=hex(7):53,59,53,4d,47,4d,54,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CQIMDSVC\Linkage]

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CQIMDSVC\Linkage\Disabled]

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CQIMDSVC\Parameters]

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CQIMDSVC\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,
,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,
,8d,01,02,00,01,01,00,\

```

```

00,00,00,00,01,00,00,00,00,74,00,73,00,00,00,1c,00,fd,
,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,76,00,63,00,00,00,
,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,20,02,00,00,76,00,63,
,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00,
,76,00,63,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,
,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,
,00,00

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\CQIMDSVC\Enum]
"0"="Root\LEGACY_CQIMDSVC\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\dac960nt]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000020

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\dce376nt]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000016

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Delldsa]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000101

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Del1_DGX]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Del1_DGX\Device0]
"VgaCompatible"=dword:00000000
"InstalledDisplayDrivers"=hex(7):66,72,61,6d,65,62,75
,66,00,00

```

```

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP]
"Type"=dword:00000020
"Start"=dword:00000004
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,5c,53,79,73,74,65,6d,33,\
32,5c,73,65,72,76,69,63,65,73,2e,65,78,65,00
"DisplayName"="DHCP Client"
"Group"="TDI"
"DependOnService"=hex(7):54,63,70,69,70,00,41,66,64,0
0,4e,65,74,42,54,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Linkage]

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Linkage\Disabled]

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Parameters]

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Parameters\Options]

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Parameters\Options\1]
"RegLocation"="System\CurrentControlSet\Services\
\Parameters\Tcpip\DhcpSubnetMaskOpt"
"KeyType"=dword:00000007

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Parameters\Options\15]
"RegLocation"="System\CurrentControlSet\Services\T
cpip\Parameters\DhcpDomain"
"KeyType"=dword:00000001

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Parameters\Options\3]
"RegLocation"="System\CurrentControlSet\Services\
\Parameters\Tcpip\DhcpDefaultGateway"
"KeyType"=dword:00000007

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Parameters\Options\44]
"RegLocation"="System\CurrentControlSet\Services\N
etBT\Adapters\?\DhcpNameServer"
"KeyType"=dword:00000001

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Parameters\Options\46]
"RegLocation"="System\CurrentControlSet\Services\N
etBT\Parameters\DhcpNodeType"
"KeyType"=dword:00000004

[HKKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\DHCP\Parameters\Options\47]
"RegLocation"="System\CurrentControlSet\Services\N
etBT\Parameters\DhcpScopeID"
"KeyType"=dword:00000001

```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\DHCP\Parameters\Options\6]
"RegLocation"="System\CurrentControlSet\Services\Tcpip\Parameters\DhcpNameServer"
"KeyType"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\DHCP\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,20,02,00,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,00,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,00,00,00,00,1c,00,ff,01,0f,\
0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00,00,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
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\Disk]
"Type"=dword:00000001
"Start"=dword:00000000
"Group"="SCSI Class"
"ErrorControl"=dword:00000000
"Tag"=dword:00000002
"DependOnGroup"=hex(7):53,43,53,49,20,6d,69,6e,69,70,6f,72,74,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Disk\Enum]
"0"="Root\LEGACY_DISK\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Diskperf]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Filter"
"ErrorControl"=dword:00000001
"Tag"=dword:00000004

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Diskperf\Enum]
"0"="Root\LEGACY_DISKPERF\0000"
"Count"=dword:00000001
```

```
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\DptScsi]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000009

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dtc329x]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000017

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\et4000]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\et4000\Device0]
"VgaCompatible"=dword:00000001
"InstalledDisplayDrivers"=hex(7):76,67,61,00,77,33,32,00,76,67,61,32,35,36,00,\
76,67,61,36,34,4b,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog]
"Type"=dword:00000020
"Start"=dword:00000002
"Group"="Event log"
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,73,79,73,74,65,6d,33,\
32,5c,73,65,72,76,69,63,65,73,2e,65,78,65,00
"ObjectName"="LocalSystem"
"PlugPlayServiceType"=dword:00000003

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\Application]
"File"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,73,79,73,74,65,6d,33,32,\
5c,63,6f,6e,66,69,67,5c,41,70,70,45,76,65,6e,74,2e,45,76,74,00
"MaxSize"=dword:00080000
"Retention"=dword:00093a80
"Sources"=hex(7):57,69,6e,6c,6f,6f,6f,6e,00,57,69,6e,64,6f,77,73,20,33,2e,31,\
20,4d,69,67,72,61,74,69,6f,6e,00,56,42,52,75,6e,74,69,6d,65,00,55,73,65,72,\
65,6e,76,00,54,79,70,65,20,31,20,49,6e,73,74,61,6c,6c,65,72,00,53,51,4c,53,\
```

```
65,72,76,65,72,50,72,6f,66,69,6c,65,72,00,53,51,4c,53,65,72,76,65,72,41,67,\
65,6e,74,00,53,51,4c,43,54,52,37,30,00,52,65,70,6c,69,63,61,74,6f,72,00,50,\
65,72,66,6d,6f,6e,00,50,65,72,66,6c,69,62,00,50,65,72,66,63,74,72,73,00,6e,\
74,62,61,63,6b,75,70,00,4d,53,53,51,4c,53,65,72,76,65,72,00,4d,53,44,54,43,\
00,4c,69,63,65,6e,73,65,53,65,72,76,69,63,65,00,4a,61,76,61,20,56,4d,00,68,\
70,6d,6f,6e,00,44,72,57,61,74,73,6f,6e,00,44,61,74,61,54,72,61,6e,73,66,6f,\
72,6d,61,74,69,6f,6e,53,65,72,76,69,63,65,73,00,41,75,74,6f,63,68,6b,00,41,\
74,61,6d,61,6e,20,54,65,6c,6e,65,74,64,20,53,65,72,76,65,72,00,41,74,61,6d,\
61,6e,20,54,43,50,20,52,65,6d,6f,74,65,20,4c,6f,67,6f,6e,20,53,65,72,76,69,\
63,65,73,00,41,74,61,6d,61,6e,20,52,6c,6f,67,69,6e,64,20,53,65,72,76,65,72,\
00,41,74,61,6d,61,6e,20,52,65,78,65,63,64,20,53,65,72,76,65,72,00,41,74,61,\
6d,61,6e,20,43,6f,6d,6d,61,6e,64,20,54,72,61,6e,73,6c,61,74,6f,72,00,41,74,\
61,6d,61,6e,20,43,6f,6d,6d,61,6e,64,20,53,74,61,61,72,74,65,72,00,41,70,70,6c,\
69,63,61,74,69,6f,6e,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\Application\Ataman Command Starter]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):43,3a,5c,61,74,61,6d,61,6e,5c,73,74,61,72,74,63,6d,\
64,2e,65,78,65,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\Application\Ataman Command Translator]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):43,3a,5c,61,74,61,6d,61,6e,5c,74,72,61,6e,73,63,6d,\
64,2e,65,78,65,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\Application\Ataman Rexcd Server]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):43,3a,5c,61,74,61,6d,61,6e,5c,72,65,78,65,63,64,2e,\
65,78,65,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Ataman Rlogind Server]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):43,3a,5c,61,74,61,6d,61,6e,
5c,72,6c,6f,67,69,6e,64,\
2e,65,78,65,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Ataman TCP Remote Logon
Services]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):43,3a,5c,61,74,61,6d,61,6e,
5c,61,74,72,6c,73,2e,65,\
78,65,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Ataman Telnetd Server]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):43,3a,5c,61,74,61,6d,61,6e,
5c,74,65,6c,6e,65,74,64,\
2e,65,78,65,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Autochk]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
```

```
65,6d,33,32,5c,77,69,6e,6c,6f,67,6f,6e,2e,65,78,65,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\DataTransformationServices]
"EventMessageFile"="C:\MSSQL7\Binn\dtspkg.dll"
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\DrWatson]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
```

```
65,6d,33,32,5c,64,72,77,74,73,6e,33,32,2e,65,78,65,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\hpmon]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,68,70,6d,6f,6e,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Java VM]
"EventMessageFile"="C:\WINNT\System32\vmhelper.dll"
"TypesSupported"=hex:07,00,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Licenseservice]
"TypesSupported"=dword:00000007
"EventMessageFile"="%SystemRoot%\System32\llsrpc.dl
l"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\MSDTC]
"EventMessageFile"=hex(2):43,3a,5c,57,49,4e,4e,54,5c,
53,79,73,74,65,6d,33,32,\
5c,45,4e,55,64,74,63,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
"CategoryMessageFile"=hex(2):43,3a,5c,57,49,4e,4e,54,
5c,53,79,73,74,65,6d,33,\
32,5c,45,4e,55,64,74,63,2e,64,6c,6c,00
"CategoryCount"=dword:00000006
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\MSSQLServer]
"TypesSupported"=dword:000000ff
"CategoryCount"=dword:00000008
"EventMessageFile"="C:\MSSQL7\BINN\SQLLEVN70.DLL"
"CategoryMessageFile"="C:\MSSQL7\BINN\SQLLEVN70.DLL"
"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\ntbackup]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
```

```
65,6d,33,32,5c,6e,74,62,61,63,6b,75,70,2e,65,78,65,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Perfctrs]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
```

```
65,6d,33,32,5c,70,65,72,66,63,74,72,73,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Perflib]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
```

```
65,6d,33,32,5c,70,72,66,6c,62,6d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Perfmon]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,70,65,72,66,6d,6f,6e,2e,65,78,65,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Replicator]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,4e,65,74,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\SQLCTR70]
"TypesSupported"=dword:00000007
"EventMessageFile"="C:\MSSQL7\BINN\SQLLEVN70.DLL"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\SQLServerAgent]
"TypesSupported"=dword:00000007
"CategoryCount"=dword:00000004
"EventMessageFile"="C:\MSSQL7\BINN\SQLAGENT.DLL"
"CategoryMessageFile"="C:\MSSQL7\BINN\SQLAGENT.DLL"
"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\SQLServerProfiler]
"EventMessageFile"=hex(2):43,3a,5c,4d,53,53,51,4c,37,
5c,42,49,4e,4e,5c,43,4f,\
4d,4e,45,56,4e,54,2e,44,4c,4c,00
"CategoryMessageFile"=hex(2):43,3a,5c,4d,53,53,51,4c,
37,5c,42,49,4e,4e,5c,43,\
4f,4d,4e,45,56,4e,54,2e,44,4c,4c,00
"TypesSupported"=dword:00000007
"CategoryCount"=dword:00000008
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Type 1 Installer]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
```

```
65,6d,33,32,5c,74,31,69,6e,73,74,61,6c,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Userenv]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,75,73,65,72,65,6e,76,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\VBRuntime]
"EventMessageFile"="C:\WINNT\System32\MSVBVM60.DLL"
"TypesSupported"=dword:00000004
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Windows 3.1 Migration]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
```

```
65,6d,33,32,5c,61,64,76,61,70,69,33,32,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Application\Winlogon]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
```

```
65,6d,33,32,5c,77,69,6e,6c,6f,67,6f,6e,2e,65,78,65,00
"TypesSupported"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\Security]
"File"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,
53,79,73,74,65,6d,33,32,\
```

```
5c,63,6f,6e,66,69,67,5c,53,65,63,45,76,65,6e,74,2e,45,
76,74,00
```

```

"MaxSize"=dword:00080000
"Retention"=dword:00093a80
"PrimaryModule"="Security"
"Sources"=hex(7):53,70,6f,6f,6c,65,72,00,53,65,63,75,72,69,74,79,20,41,63,63,\
6f,75,6e,74,20,4d,61,6e,61,67,65,72,00,53,43,20,4d,61,6e,61,67,65,72,00,4e,\
65,74,44,44,45,20,4f,62,6a,65,63,74,00,4c,53,41,00,53,65,63,75,72,69,74,79,\
00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\LSA]
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,\
74,65,6d,33,32,5c,4d,73,4f,62,6a,73,2e,64,6c,6c,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\LSA\ObjectNames]
"PolicyObject"=dword:00001600
"SecretObject"=dword:00001610
"TrustedDomainObject"=dword:00001620
"UserAccountObject"=dword:00001630

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\NetDDE Object]
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,\
74,65,6d,33,32,5c,4d,73,4f,62,6a,73,2e,64,6c,6c,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\NetDDE Object\ObjectNames]
"DDE Share"=dword:00001d00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\SC Manager]
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,\
74,65,6d,33,32,5c,4d,73,4f,62,6a,73,2e,64,6c,6c,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\SC Manager\ObjectNames]
"SC MANAGER Object"=dword:00001c00
"SERVICE Object"=dword:00001c10

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,4d,73,41,75,64,69,74,45,2e,64,6c,6c,00
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,\
74,65,6d,33,32,5c,4d,73,4f,62,6a,73,2e,64,6c,6c,00
"CategoryMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,\
74,65,6d,33,32,5c,4d,73,41,75,64,69,74,45,2e,64,6c,6c,00
"CategoryCount"=dword:00000007
"TypesSupported"=dword:0000001c

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\Security\ObjectNames]
"Device"=dword:00001100
"Directory"=dword:00001110
"Event"=dword:00001120
"EventPair"=dword:00001130
"File"=dword:00001140
"Key"=dword:00001150
"Mutant"=dword:00001160
"Port"=dword:00001170
"Process"=dword:00001180
"Profile"=dword:00001190
"Section"=dword:000011a0
"Semaphore"=dword:000011b0
"SymbolicLink"=dword:000011c0
"Thread"=dword:000011d0
"Timer"=dword:000011e0
"Token"=dword:000011f0
"Type"=dword:00001200
"IoCompletion"=dword:00001300
"MailSlot"=dword:00001140
"NamedPipe"=dword:00001140
"Channel"=dword:00001400
"WindowStation"=dword:00001a00
"Desktop"=dword:00001a10

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\Security Account Manager]
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,\
74,65,6d,33,32,5c,4d,73,4f,62,6a,73,2e,64,6c,6c,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\Security Account Manager\ObjectNames]
"SAM_SERVER"=dword:00001500
"SAM_DOMAIN"=dword:00001510
"SAM_GROUP"=dword:00001520
"SAM_ALIAS"=dword:00001530
"SAM_USER"=dword:00001540

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\Spooler]
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,\
74,65,6d,33,32,5c,4d,73,4f,62,6a,73,2e,64,6c,6c,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\Security\Spooler\ObjectNames]
"Server"=dword:00001b00
"Printer"=dword:00001b10
"Document"=dword:00001b20

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventLog\System]
"File"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,73,79,73,74,65,6d,33,32,\
5c,63,6f,6e,66,69,67,5c,53,79,73,45,76,65,6e,74,2e,45,76,74,00
"MaxSize"=dword:00080000
"Retention"=dword:00000000

```

```

"Sources"=hex(7):78,67,61,00,77,6f,72,6b,73,74,61,74,69,6f,6e,00,77,65,69,74,\
65,6b,70,39,00,77,64,76,67,61,00,77,64,39,30,63,32,34,61,00,77,64,33,33,63,\
39,33,00,56,67,61,53,74,61,72,74,00,56,67,61,53,61,76,65,00,76,37,76,72,61,\
6d,00,55,50,53,00,75,6c,74,72,61,32,34,66,00,75,6c,74,72,61,31,34,66,00,75,\
6c,74,72,61,31,32,34,00,74,6d,76,31,00,74,64,69,00,54,63,70,69,70,00,74,31,\
33,62,00,74,31,32,38,00,53,79,73,4d,67,6d,74,00,53,79,73,44,6f,77,6e,00,73,\
79,6d,63,38,31,30,00,53,72,76,00,73,70,6f,63,6b,00,73,70,61,72,72,6f,77,00,\
73,6e,64,62,6c,73,74,00,73,6c,63,64,33,32,00,53,69,6d,62,61,64,00,73,66,6c,\
6f,70,70,79,00,53,65,72,76,69,63,65,20,43,6f,6e,74,72,6f,6c,20,4d,61,6e,61,\
67,65,72,00,73,65,72,76,65,72,00,73,65,72,6d,6f,75,73,65,00,73,65,72,69,61,\
6c,00,73,63,73,69,73,63,61,6e,00,73,63,73,69,70,72,6e,74,00,73,63,73,69,70,\
6f,72,74,00,53,63,68,65,64,75,6c,65,00,53,61,76,65,20,44,75,6d,70,00,53,41,\
4d,00,73,33,00,52,64,72,00,71,76,00,71,6c,31,30,77,6e,74,00,70,73,69,64,69,\
73,70,00,50,52,4c,4e,54,53,53,00,50,72,69,6e,74,00,70,6e,70,69,73,61,00,70,\
63,6d,63,69,61,00,70,61,72,76,64,6d,00,70,61,72,70,6f,72,74,00,70,61,72,61,\
6c,6c,65,6c,00,6f,6c,69,73,63,73,69,00,6e,75,6c,6c,00,4e,74,53,65,72,76,69,\
63,65,50,61,63,6b,00,6e,74,66,73,00,6e,70,66,73,00,4e,65,74,4c,6f,67,6f,6e,\
00,4e,65,74,44,44,45,00,4e,65,74,42,54,00,4e,65,74,42,49,4f,53,00,6e,64,69,\
73,00,6e,63,72,63,37,31,30,00,6e,63,72,63,37,30,30,00,6e,63,72,37,63,32,\
32,00,6e,63,72,35,33,63,39,78,00,4e,62,66,00,4e,31,30,30,00,4d,75,70,00,6d,\
73,66,73,00,6d,73,61,64,6c,69,62,00,6d,6f,75,63,6c,61,73,73,00,4d,6f,64,65,\

```

6d,00,6d,6b,65,63,72,35,78,78,00,6d,69,74,73,75,6d,69,00,6d,67,61,5f,6d,69,\

6c,00,6d,67,61,00,4c,6d,48,6f,73,74,73,00,6b,62,64,63,6c,61,73,73,00,4a,7a,\

76,78,6c,34,38,34,00,4a,61,7a,7a,53,6e,64,00,4a,61,7a,7a,47,33,36,34,00,4a,\

61,7a,7a,47,33,30,30,00,69,6e,70,6f,72,74,00,69,38,30,34,32,70,72,74,00,66,\

74,64,69,73,6b,00,66,73,5f,72,65,63,00,66,6c,6f,70,70,79,00,66,6c,61,73,68,\

70,6e,74,00,66,64,38,58,58,00,66,64,37,30,30,65,78,00,66,64,31,36,5f,37,\

30,30,00,66,61,73,74,66,61,74,00,65,76,65,6e,74,6c,6f,67,00,65,74,34,30,30,\

30,00,45,31,30,30,42,00,64,74,63,33,32,39,78,00,64,70,74,73,63,73,69,00,64,\

69,73,6b,70,65,72,66,00,64,69,73,6b,00,44,48,43,50,00,64,65,6c,6c,5f,64,67,\

78,00,64,65,6c,6c,64,73,61,00,44,43,4f,4d,00,64,63,65,33,37,36,6e,74,00,64,\

61,63,39,36,30,6e,74,00,43,51,49,4d,44,53,56,43,00,43,70,71,53,4d,52,54,32,\

00,43,50,51,53,45,54,55,00,43,50,51,52,43,4d,43,00,43,70,71,4e,46,33,00,\

63,70,71,66,77,73,32,65,00,43,50,51,44,41,45,4e,00,63,70,71,61,72,72,79,32,\

00,63,70,71,61,72,72,61,79,00,63,70,71,33,32,66,73,32,00,63,69,72,72,75,73,\

00,63,68,61,6e,67,65,72,00,63,64,72,6f,6d,00,63,64,66,73,00,63,64,61,75,64,\

69,6f,00,62,75,73,6d,6f,75,73,65,00,62,75,73,6c,6f,67,69,63,00,42,72,6f,77,\

73,65,72,00,62,65,65,70,00,61,74,69,00,61,74,64,69,73,6b,00,61,74,61,70,69,\

00,61,72,72,6f,77,00,41,70,70,6c,69,63,61,74,69,6f,6e,20,50,6f,70,75,70,00,\

61,6d,73,69,6e,74,00,61,6d,69,30,6e,74,00,61,6c,77,61,79,73,00,41,6c,65,72,\

74,65,72,00,61,69,63,37,38,78,78,00,61,68,61,31,37,34,78,00,61,68,61,31,35,\

34,78,00,41,66,64,00,61,62,69,6f,73,64,73,6b,00,53,79,73,74,65,6d,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\abiosdsk]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Afd]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Aha154x]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Aha174x]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Aic78xx]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Alerter]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,4e,65,74,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Always]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\ami0nt]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\amsint]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Application Popup]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,6e,74,64,6c,6c,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\arrow]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\atap1]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\atdisk]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\ati]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,64,72,69,76,65,72,73,5c,61,74,\

69,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\beep]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Browser]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,6e,65,74,65,76,65,6e,74,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\buslogic]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\busmouse]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69,76,65,72,73,5c,42,75,\

73,4d,6f,75,73,65,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\cdaudio]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\cdfis]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\cdrom]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\changer]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\cirrus]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\cpq32fs2]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\cpqarray]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\cpqarray2]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\cpqarray2]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\CPQDAEN]
"EventMessageFile"="%SystemRoot%\System32\drivers\CPQDAEN.SYS"
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\cpqfws2e]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\CpqNF3]
"TypesSupported"=dword:00000000
"EventMessageFile"=hex(2):43,3a,5c,57,49,4e,4e,54,5c,53,59,53,54,45,4d,33,32,\

5c,4e,45,54,45,56,45,4e,54,2e,44,4c,4c,3b,43,3a,5c,57,49,4e,4e,54,5c,53,59,\

53,54,45,4d,33,32,5c,49,4f,4c,4f,47,4d,53,47,2e,44,4c,4c,3b,43,3a,5c,57,49,\

4e,4e,54,5c,53,59,53,54,45,4d,33,32,5c,44,52,49,56,45,52,53,5c,4e,45,54,46,\

4c,58,33,2e,53,59,53,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\CPQRMC]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,43,50,51,52,43,4d,43,2e,45,58,45,00
"CategoryMessageFile"="%SystemRoot%\System32\CPQRMC.EXE"
"CategoryCount"=dword:00000003

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\CPQSETUP]
"TypesSupported"=dword:00000000
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,44,4c,4c,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\CpqSMRT2]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,44,72,69,76,65,72,73,5c,43,50,51,53,4d,52,54,32,2e,53,59,53,\

3b,25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,49,6f,\

4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\CQIMDSVC]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,43,51,49,4d,44,53,56,43,2e,45,58,45,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\dac960nt]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\dce376nt]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\DCOM]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,6e,65,74,65,76,65,6e,74,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,\

74,65,6d,33,32,5c,6b,65,72,6e,65,6c,33,32,2e,64,6c,6c,00

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\delldds]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\delld_gdx]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\DHCP]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,64,68,63,70,63,73,76,63,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52
,6f,6f,74,25,5c,53,79,73,\
74,65,6d,33,32,5c,6b,65,72,6e,65,6c,33,32,2e,64,6c,6c
,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\disk]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\diskperf]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\dptscsi]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\dtc329x]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\E100B]
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"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,6e,65,74,65,76,65,6e,74,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\et4000]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\eventlog]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,6e,65,74,65,76,65,6e,74,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\fastfat]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\fd16_700]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\fd7000ex]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\fd8XX]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\flashpnt]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\floppy]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\fs_rec]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ftdisk]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\
52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,46,74,\
44,69,73,6b,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\i8042prt]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\
52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,64,72,69
,76,65,72,73,5c,69,38,\
30,34,32,70,72,74,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\inport]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\
52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,49,6e,\
50,6f,72,74,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\JazzG300]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\JazzG364]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\JazzSnd]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\Jzvx1484]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\kbdclass]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,64,72,69
,76,65,72,73,5c,6b,62,\
64,63,6c,61,73,73,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\LmHosts]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,6e,65,74,65,76,65,6e,74,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\mga]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,6d,67,\
61,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\mga_mil]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
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65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,6d,67,\
61,5f,6d,69,6c,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\mitsumi]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\mkccr5xx]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\mkeccr5xx]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\Modem]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,4d,6f,\
64,65,6d,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\mouclass]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,64,72,69
,76,65,72,73,5c,6d,6f,\
75,63,6c,61,73,73,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\msadlib]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\msdfs]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
```

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65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\Mup]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\N100]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,4e,65,74,65,76,65,6e,74,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,4e,31,\
30,30,4e,54,2e,53,79,73,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\Nbf]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,6e,65,74,65,76,65,6e,74,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ncr53c9x]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ncr77c22]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ncrc700]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ncrc710]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
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"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ndis]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,6e,65,74,65,76,65,6e,74,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\NetBIOS]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\NetBT]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,6e,65,74,65,76,65,6e,74,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\NetDDE]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,6e,65,74,64,64,65,2e,65,78,65,00
"TypesSupported"=dword:0000001f

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\NetLogon]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,4e,65,74,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,
6f,6f,74,25,5c,53,79,73,\

74,65,6d,33,32,5c,4b,65,72,6e,65,6c,33,32,2e,64,6c,6c,
,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\npfs]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ntfs]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\NtServicePack]

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"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,73,70,6d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\null]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\oliscsi]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\oliscsi]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\parallel]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b,
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69,
76,65,72,73,5c,50,61,\
72,61,6c,6c,65,6c,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\parport]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b,
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69,
76,65,72,73,5c,50,61,\
72,50,6f,72,74,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\parvdm]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b,
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69,
76,65,72,73,5c,50,61,\
72,56,64,6d,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\pccmnia]

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"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b,
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69,
76,65,72,73,5c,50,63,\
6d,63,69,61,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\npnpisa]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b,
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69,
76,65,72,73,5c,70,6e,\
70,69,73,61,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\Print]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,4c,6f,63,61,6c,53,70,6c,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\PRNTSS]
"TypesSupported"=dword:00000007
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,44,72,69,76,65,72,73,5c,50,52,4c,4e,54,
53,53,2e,53,59,53,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\psidisp]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ql10wnt]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\qv]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

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65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 3b, 25, 53, 79, 73, 74, 65, 6d, \

52, 6f, 6f, 74, 25, 5c, 53, 79, 73, 74, 65, 6d, 33, 32, 5c, 44, 72, 69, 76, 65, 72, 73, 5c, 71, 76, \ 2e, 73, 79, 73, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Rdr]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 6e, 65, 74, 65, 76, 65, 6e, 74, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\S3]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 3b, 25, 53, 79, 73, 74, 65, 6d, \

52, 6f, 6f, 74, 25, 5c, 53, 79, 73, 74, 65, 6d, 33, 32, 5c, 44, 72, 69, 76, 65, 72, 73, 5c, 73, 33, \ 2e, 73, 79, 73, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\SAM]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \ 65, 6d, 33, 32, 5c, 73, 61, 6d, 73, 72, 76, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Save Dump]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 53, 61, 76, 65, 44, 75, 6d, 70, 2e, 65, 78, 65, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Schedule]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 6e, 65, 74, 65, 76, 65, 6e, 74, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73, \

74, 65, 6d, 33, 32, 5c, 6b, 65, 72, 6e, 65, 6c, 33, 32, 2e, 64, 6c, 6c, 00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\scsiport]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\scsiport]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\scsiscan]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\serial]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 3b, 25, 53, 79, 73, 74, 65, 6d, \

52, 6f, 6f, 74, 25, 5c, 53, 79, 73, 74, 65, 6d, 33, 32, 5c, 44, 72, 69, 76, 65, 72, 73, 5c, 53, 65, \ 72, 69, 61, 6c, 2e, 73, 79, 73, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\sermouse]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 3b, 25, 53, 79, 73, 74, 65, 6d, \

52, 6f, 6f, 74, 25, 5c, 53, 79, 73, 74, 65, 6d, 33, 32, 5c, 44, 72, 69, 76, 65, 72, 73, 5c, 53, 65, \ 72, 4d, 6f, 75, 73, 65, 2e, 73, 79, 73, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\server]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 6e, 65, 74, 65, 76, 65, 6e, 74, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Service Control Manager]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 6e, 65, 74, 65, 76, 65, 6e, 74, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007
"ParameterMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73, \

74, 65, 6d, 33, 32, 5c, 6b, 65, 72, 6e, 65, 6c, 33, 32, 2e, 64, 6c, 6c, 00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\sfloppy]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Simbad]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\slcd32]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\sndblst]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\sparrow]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\spock]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 49, 6f, 4c, 6f, 67, 4d, 73, 67, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\Srv]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74, \

65, 6d, 33, 32, 5c, 6e, 65, 74, 65, 76, 65, 6e, 74, 2e, 64, 6c, 6c, 00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\System\sync810]

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"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\SysDown]
"TypesSupported"=dword:00000000
"EventMessageFile"=hex(2):00
"ParameterMessageFile"=%SystemRoot%\SYSTEM32\IOLOG
MSG.DLL;%SystemRoot%\SYSTEM32\SYSDOWN.EXE"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\SysMgmt]
"TypesSupported"=dword:00000007
"EventMessageFile"=%SystemRoot%\SYSTEM32\Drivers\
SYSGMT.SYS;%SystemRoot%\SYSTEM32\IOLOGMSG.DLL"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\t128]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\t13b]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\Tcpip]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,6e,65,74,65,76,65,6e,74,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\tidi]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\tml1]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ultra14]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

```

```

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ultra14f]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ultra24f]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\ultra24g]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\UPS]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
    65,6d,33,32,5c,6e,65,74,6d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\v7vram]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\VgaSave]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,76,67,\
    61,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\VgaStart]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,76,67,\
    61,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\wd33c93]

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"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\wd90c24a]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\wdvga]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\weitek9]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,77,65,\
    69,74,65,6b,70,39,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\workstation]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\
    65,6d,33,32,5c,4e,65,74,4d,73,67,2e,64,6c,6c,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\EventLog\System\xga]
"EventMessageFile"=hex(2):25,53,79,73,74,65,6d,52,6f,
6f,74,25,5c,53,79,73,74,\

65,6d,33,32,5c,49,6f,4c,6f,67,4d,73,67,2e,64,6c,6c,3b
,25,53,79,73,74,65,6d,\

52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,32,5c,44,72,69
,76,65,72,73,5c,78,67,\
    61,2e,73,79,73,00
"TypesSupported"=dword:00000007

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Fastfat]
"Type"=dword:00000002
"Start"=dword:00000004
"Group"="Boot file system"
"ErrorControl"=dword:00000001

```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Fastfat\Enum]
"0"="Root\LEGACY_FASTFAT\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Fd16_700]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000010

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Fd7000ex]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000000e

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Fd8xx]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000000f

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Fd8xx\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Fd8xx\Parameters\Device0]
"DriverParameter"="IRQ=5"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\flashpnt]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000025

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Floppy]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Primary disk"
"ErrorControl"=dword:00000000
"Tag"=dword:00000002

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Floppy\Enum]
"0"="Root\LEGACY_FLOPPY\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Fs_Rec]
"Type"=dword:00000008
"Start"=dword:00000001
```

```
"Group"="Boot file system"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Fs_Rec\Enum]
"0"="Root\LEGACY_FS_REC\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Ftdisk]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Filter"
"ErrorControl"=dword:00000000
"Tag"=dword:00000003

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\i8042prt]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Keyboard Port"
"ErrorControl"=dword:00000001
"Tag"=dword:00000002
"DisplayName"="i8042 Keyboard and PS/2 Mouse Port
Driver"
"ImagePath"=hex(2):53,79,73,74,65,6d,33,32,5c,44,52,4
9,56,45,52,53,5c,69,38,30,\
34,32,70,72,74,2e,73,79,73,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\i8042prt\Parameters]
"ResendIterations"=dword:00000003
"PollingIterations"=dword:00002ee0
"PollingIterationsMaximum"=dword:00002ee0
"PollStatusIterations"=dword:00000001
"KeyboardDataQueueSize"=dword:00000064
"KeyboardDeviceBaseName"="KeyboardPort"
"MouseDataQueueSize"=dword:00000064
"NumberOfButtons"=dword:00000002
"SampleRate"=dword:0000003c
"MouseResolution"=dword:00000003
"PointerDeviceBaseName"="PointerPort"
"MouseSynchIn100ns"=dword:01312d00
"EnableWheelDetection"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\i8042prt\Description]
"\Device\KeyboardPort0"=hex:01,00,00,00,00,00,00,
16,00,00,00,00,00,00,00,\
20,00,00,00,00,00,00,00
"\Device\PointerPort0"=hex:01,00,00,00,00,00,00,00,
15,00,00,00,00,00,00,\
1f,00,00,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\i8042prt\Enum]
"0"="Root\PNP030b\1_0_22_0_32_0"
"Count"=dword:00000002
"NextInstance"=dword:00000002
"1"="Root\PNP0F12\1_0_21_0_31_0"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\inetaccs]
@=""

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\inetaccs\Parameters]
@=""

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Inport]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Pointer Port"
"ErrorControl"=dword:00000000
"Tag"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Inport\Parameters]
"MouseDataQueueSize"=dword:00000064
"NumberOfButtons"=dword:00000002
"SampleRate"=dword:00000032
"HzMode"=dword:00000002
"PointerDeviceBaseName"="PointerPort"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Jazzg300]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Jazzg300\Device0]
"VgaCompatible"=dword:00000000
"Monitor"="drivers\jazz.bvp"
"InstalledDisplayDrivers"=hex(7):66,72,61,6d,65,62,75
,66,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Jazzg364]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Jazzg364\Device0]
"VgaCompatible"=dword:00000000
"Monitor"="drivers\jazz.bvp"
"InstalledDisplayDrivers"=hex(7):66,72,61,6d,65,62,75
,66,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Jzvx1484]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Jzvx1484\Device0]
"VgaCompatible"=dword:00000000
"Monitor"="drivers\jazz.bvp"
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"InstalledDisplayDrivers"=hex(7):6a,7a,76,78,6c,34,38,34,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Kbdclass]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Keyboard Class"
"ErrorControl"=dword:00000001
"Tag"=dword:00000001
"DisplayName"="Keyboard Class Driver"
"ImagePath"=hex(2):53,79,73,74,65,6d,33,32,5c,44,52,49,56,45,52,53,5c,6b,62,64,\63,6c,61,73,73,2e,73,79,73,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Kbdclass\Parameters]
"KeyboardDataQueueSize"=dword:00000064
"MaximumPortsServiced"=dword:00000003
"ConnectMultiplePorts"=dword:00000000
"KeyboardDeviceBaseName"="KeyboardClass"
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Kbdclass\Enum]
"0"="Root\LEGACY_KBDCLASS\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\KSecDD]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Base"
"ErrorControl"=dword:00000001
"Tag"=dword:00000001
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\KSecDD\Enum]
"0"="Root\LEGACY_KSECDD\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer]
"Type"=dword:00000020
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,\32,5c,73,65,72,76,69,63,65,73,2e,65,78,65,00
"DisplayName"="Server"
"ObjectName"="LocalSystem"
"DependOnService"=hex(7):00
"DependOnGroup"=hex(7):54,44,49,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\AutotunedParameters]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Linkage]
"Bind"=hex(7):5c,44,65,76,69,63,65,5c,4e,65,74,42,54,5f,4e,31,30,30,31,00,5c,\

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44,65,76,69,63,65,5c,4e,62,66,5f,4e,31,30,30,31,00,00
"Export"=hex(7):5c,44,65,76,69,63,65,5c,4c,61,6e,6d,61,6e,53,65,72,76,65,72,5c,\
4e,65,74,42,54,5f,4e,31,30,30,31,00,5c,44,65,76,69,63,65,5c,4c,61,6e,6d,61,\
6e,53,65,72,76,65,72,5c,4e,62,66,5f,4e,31,30,30,31,00,00
"Route"=hex(7):22,4e,65,74,42,54,22,20,22,4e,31,30,30,22,20,22,4e,31,30,30,31,\
22,00,22,4e,62,66,22,20,22,4e,31,30,30,22,20,22,4e,31,30,30,31,22,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Linkage\Disabled]
"Bind"=hex(7):00
"Export"=hex(7):00
"Route"=hex(7):00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Parameters]
"NullSessionPipes"=hex(7):43,4f,4d,4e,41,50,00,43,4f,4d,4e,4f,44,45,00,53,51,\
4c,5c,51,55,45,52,59,00,53,50,4f,4f,4c,53,53,00,4c,4c,53,52,50,43,00,45,50,\4d,41,50,50,45,52,00,4c,4f,43,41,54,4f,52,00,00
"NullSessionShares"=hex(7):43,4f,4d,43,46,47,00,44,46,53,24,00,00
"Size"=dword:00000003
"Lmannounce"=dword:00000000
"MaxMpxCt"=dword:000001ff
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,20,02,00,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,54,00,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,00,20,02,00,00,54,00,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00,54,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\

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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\LanmanServer\Shares]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Shares\Security]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanServer\Enum]
"0"="Root\LEGACY_LANMANSERVER\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanWorkstation]
"Type"=dword:00000020
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,\32,5c,73,65,72,76,69,63,65,73,2e,65,78,65,00
"DisplayName"="Workstation"
"Group"="NetworkProvider"
"ObjectName"="LocalSystem"
"DependOnService"=hex(7):00
"DependOnGroup"=hex(7):54,44,49,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanWorkstation\Linkage]
"Bind"=hex(7):5c,44,65,76,69,63,65,5c,4e,65,74,42,54,5f,4e,31,30,30,31,00,5c,\
44,65,76,69,63,65,5c,4e,62,66,5f,4e,31,30,30,31,00,00
"Export"=hex(7):5c,44,65,76,69,63,65,5c,4c,61,6e,6d,61,6e,57,6f,72,6b,73,74,61,\
74,69,6f,6e,5c,4e,65,74,42,54,5f,4e,31,30,30,31,00,5c,44,65,76,69,63,65,5c,\
4c,61,6e,6d,61,6e,57,6f,72,6b,73,74,61,74,69,6f,6e,5c,4e,62,66,5f,4e,31,30,\30,31,00,00
"Route"=hex(7):22,4e,65,74,42,54,22,20,22,4e,31,30,30,22,20,22,4e,31,30,30,31,\22,20,22,4e,31,30,30,31,\
22,00,22,4e,62,66,22,20,22,4e,31,30,30,22,20,22,4e,31,30,30,31,22,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanWorkstation\Linkage\Disabled]
"Bind"=hex(7):00
"Export"=hex(7):00
"Route"=hex(7):00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanWorkstation\networkprovider]
"Devicename"="\\Device\LanmanRedirector"
"ProviderPath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,6d,\33,32,5c,6e,74,6c,61,6e,6d,61,6e,2e,64,6c,6c,00

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>Name="Microsoft Windows Network"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LanmanWorkstation\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LanmanWorkstation\Security]
"Security"=hex:01,00,14,80,c0,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,01,00,00,00,00,20,02,00,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,00,00,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,00,00
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00
,00,00,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,02,00,00,01,01,00,00,\

00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00
,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LanmanWorkstation\Enum]
"0"="Root\LEGACY_LANMANWORKSTATION\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseInfo]
"ErrorControl"=dword:00000001
"Start"=dword:00000003
"Type"=dword:00000004

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseInfo\FilePrint]
"Mode"=dword:00000001
"ConcurrentLimit"=dword:00000005
"FlipAllow"=dword:00000001
"FamilyDisplayName"="Windows NT Server"
"DisplayName"="Windows NT Server"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseInfo\MSSQL7_00]
"DisplayName"="Microsoft SQL Server 7.0"
"ConcurrentLimit"=dword:000001f4
"FlipAllow"=dword:00000000
"FamilyDisplayName"="Microsoft SQL Server"
"Mode"=dword:00000001

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,5c,53,79,73,74,65,6d,33,\
32,5c,6c,6c,73,73,72,76,2e,65,78,65,00
"DisplayName"="License Logging Service"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint\KSecDD]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint\MSAfpSrv]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint\SMBServer]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint\TCP/IP Print Server]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\Parameters]
"UseEnterprise"=dword:00000000
"ReplicationType"=dword:00000000
"ReplicationTime"=dword:00015180
"EnterpriseServer"=""

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\Security]
"Security"=hex:01,00,14,80,c0,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,01,00,00,00,00,01,00,00,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,60,01,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,05,20,00,00,20,02,00,00,60,01,00
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00
,60,01,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,02,00,00,01,01,00,00,\

00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00
,00,00

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\Enum]
"0"="Root\LEGACY_LICENSESERVICE\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts]
"Type"=dword:00000020
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,5c,53,79,73,74,65,6d,33,\
32,5c,73,65,72,76,69,63,65,73,2e,65,78,65,00
"DisplayName"="TCP/IP NetBIOS Helper"
"DependOnService"=hex(7):00
"DependOnGroup"=hex(7):4e,65,74,77,6f,72,6b,50,72,6f,
76,69,64,65,72,00,00
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts\Security]
"Security"=hex:01,00,14,80,c0,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,25,02,00,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,0b,00,04,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,05,20,00,00,20,02,00,00,0b,00,04
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00
,0b,00,04,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,02,00,00,01,01,00,00,\

00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00
,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts\Enum]
"0"="Root\LEGACY_LMHOSTS\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Messenger]
"Type"=dword:00000020
"Start"=dword:00000004
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,\
32,5c,73,65,72,76,69,63,65,73,2e,65,78,65,00
"DisplayName"="Messenger"
"DependOnService"=hex(7):4c,61,6e,6d,61,6e,57,6f,72,6b,73,74,61,74,69,6f,6e,00,\
4e,65,74,42,69,6f,73,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Messenger\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Messenger\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Messenger\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Messenger\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,00,00,05,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,20,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,00,20,02,00,00,20,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00,20,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Messenger\Enum]
"0"="Root\LEGACY_MESSENGER\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\mga]
"Type"=dword:00000001

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"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\mga\Device0]
"VgaCompatible"=dword:00000000
"InstalledDisplayDrivers"=hex(7):6d,67,61,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\mga_mil]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\mga_mil\Device0]
"VgaCompatible"=dword:00000000
"InstalledDisplayDrivers"=hex(7):6d,67,61,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\mitsumi]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI_miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000001f

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\mkcfr5xx]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI_miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000001d

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Modem]
"Type"=dword:00000001
"Start"=dword:00000003
"Group"="Extended_base"
"ErrorControl"=dword:00000000
"Tag"=dword:00000004
"PlugPlayServiceType"=dword:00000002

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Modem\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Mouclass]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Pointer_Class"
"ErrorControl"=dword:00000001
"Tag"=dword:00000001
"DisplayName"="Mouse Class Driver"
"ImagePath"=hex(2):53,79,73,74,65,6d,33,32,5c,44,52,49,56,45,52,53,5c,6d,6f,75,\
63,6c,61,73,73,2e,73,79,73,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Mouclass\Parameters]

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"MouseDataQueueSize"=dword:00000064
"MaximumPortsServiced"=dword:00000003
"ConnectMultiplePorts"=dword:00000001
"PointerDeviceBaseName"="PointerClass"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Mouclass\Enum]
"0"="Root\LEGACY_MOUCLASS\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSDTC]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,57,49,4e,4e,54,5c,53,79,73,74,65,6d,33,32,5c,6d,73,\
64,74,63,2e,65,78,65,00
"DisplayName"="MSDTC"
"Group"="MS_Transactions"
"DependOnService"=hex(7):52,50,43,53,53,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSDTC\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,00,76,00,63,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,00,20,02,00,00,00,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Msfs]
"Type"=dword:00000002
"Start"=dword:00000001
"Group"="File_system"
"ErrorControl"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Msfs\Enum]

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"0"=Root\\LEGACY_MSFS\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLServer]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,4d,53,53,51,4c,37,5c,62,69,6e,6e,5c,73,71,6c,73,65,72,76,72,2e,65,78,65,00
"DisplayName"="MSSQLServer"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLServer\Performance]
"Collect"="CollectSQLPerformanceData"
"Library"="SQLCTR70.DLL"
"Close"="CloseSQLPerformanceData"
"Open"="OpenSQLPerformanceData"
"Last Counter"=dword:0000083a
"Last Help"=dword:0000083b
"First Counter"=dword:00000738
"First Help"=dword:00000739

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLServer\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,20,02,00,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,00,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,00,20,02,00,00,00,00,00,00,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLServer\Enum]
"0"=Root\\LEGACY_MSSQLSERVER\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Mup]

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"Type"=dword:00000002
"Start"=dword:00000003
"DisplayName"="Mup"
"Group"="Network"
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5c,53,79,73,74,65,6d,33,32,\
5c,64,72,69,76,65,72,73,5c,6d,75,70,2e,73,79,73,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Mup\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Mup\Enum]
"0"=Root\\LEGACY_MUP\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N100]
"Type"=dword:00000001
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5c,53,79,73,74,65,6d,33,32,\
5c,44,72,69,76,65,72,73,5c,4e,31,30,30,4e,54,2e,73,79,73,00
"DisplayName"="Compaq Ethernet or Fast Ethernet NIC Driver"
"Group"="NDIS"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N100\Linkage]
"Bind"=hex(7):5c,44,65,76,69,63,65,5c,4e,31,30,30,31,00,00
"Export"=hex(7):5c,44,65,76,69,63,65,5c,4e,31,30,30,31,00,00
"Route"=hex(7):22,4e,31,30,30,31,22,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N100\Linkage\Disabled]
"Bind"=hex(7):00
"Export"=hex(7):00
"Route"=hex(7):00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N100\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N100\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,51,00,4b,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\

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00,00,00,05,20,00,00,00,23,02,00,00,44,00,44,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,20,02,00,00,44,00,44,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,25,02,00,00,44,00,44,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
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\N100\Enum]
"0"=Root\\LEGACY_N100\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N100\1]
"Type"=dword:00000004
"Start"=dword:00000003
"ErrorControl"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N100\Linkage]
"Bind"=hex(7):5c,44,65,76,69,63,65,5c,4e,31,30,30,31,00,00
"Export"=hex(7):5c,44,65,76,69,63,65,5c,4e,31,30,30,31,00,00
"Route"=hex(7):22,4e,31,30,30,31,22,00,00,00,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N100\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N100\Parameters]
"NetworkAddress"=""
"Adaptive_IFS"=dword:00000001
"NumCoalesce"=dword:00000008
"NumRfd"=dword:00000020
"NumTbdPerTcb"=dword:0000000c
"NumTcb"=dword:00000010
"Threshold"=dword:00000010
"UnderrunRetry"=dword:00000001
"LogErrorMessage"=dword:00000001
"Txmitwait"=dword:00000001
"RxDMACount"=dword:00000000
"Rx Fifo"=dword:0000000c
"TxDMACount"=dword:00000000
"Tx Fifo"=dword:00000000
"UseManualPciAssign"=dword:00000001
"BoardHasBridge"=dword:00000000
"BusTypeLocal"=dword:00000005
"UnicodeSW"=dword:00000001
"MsPciScan"=dword:00000001
"MediaType"=dword:00000001
"BusType"=dword:00000005

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"PerfOptims"=dword:00000000
"MapRegisters"=dword:00000040
"ForceDpx"=dword:00000000
"Speed"=dword:00000000
"PhySlotNumber"=dword:00000002
"BusNumber"=dword:00000004
"SlotNumber"=dword:00000002
"IRQ"=dword:00000008
"IOBaseAddress"=dword:00004000
"MemoryMappedBaseAddress"=dword:f7df0000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\N1001\Parameters\Tcpip]
"EnableDHCP"=dword:00000000
"UseZeroBroadcast"=dword:00000000
"LLInterface"=""
"PPTPFiltering"=dword:00000000
"IPAddress"=hex(7):31,33,30,2e,31,36,38,2e,32,30,32,2e,31,00,00
"SubnetMask"=hex(7):32,35,35,2e,32,35,35,2e,30,2e,30,00,00
"TCPAllowedPorts"=hex(7):30,00,00
"UDPAllowedPorts"=hex(7):30,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00
"DefaultGateway"=hex(7):00,00
"IPInterfaceContext"=dword:00000001
"IPInterfaceContextMax"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Nbf]
"Type"=dword:00000001
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5c,53,79,73,74,65,6d,33,32,\
5c,64,72,69,76,65,72,73,5c,6e,62,66,2e,73,79,73,00
"DisplayName"="NetBEUI Protocol"
"Group"="PNP_TDI"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Nbf\Linkage]
"Bind"=hex(7):5c,44,65,76,69,63,65,5c,4e,31,30,30,31,00,00
"Export"=hex(7):5c,44,65,76,69,63,65,5c,4e,62,66,5f,4e,31,30,30,31,00,00
"Route"=hex(7):22,4e,31,30,30,22,20,22,4e,31,30,30,31,22,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Nbf\Linkage\Disabled]
"Bind"=hex(7):00
"Export"=hex(7):00
"Route"=hex(7):00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Nbf\Parameters]
"NbProvider"="_nb"
"MaxRequests"=dword:00000000
"MaxLinks"=dword:00000000
"MaxConnections"=dword:00000000
"MaxAddressFiles"=dword:00000000
"MaxAddresses"=dword:00000000
"DefaultT1Timeout"=dword:005b8d80

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"DefaultT2Timeout"=dword:0016e360
"DefaultT3Timeout"=dword:11e1a300
"LlcRetries"=dword:00000008
"LlcMaxWindowSize"=dword:0000000a
"MaximumIncomingFrames"=dword:00000004
"NameQueryRetries"=dword:00000003
"NameQueryTimeout"=dword:004c4b40
"AddNameQueryRetries"=dword:00000003
"AddNameQueryTimeout"=dword:004c4b40
"GeneralRetries"=dword:00000003
"GeneralTimeout"=dword:004c4b40
"WanNameQueryRetries"=dword:00000005
"UseDixOverEthernet"=dword:00000000
"QueryWithoutSourceRouting"=dword:00000000
"AllRoutesNameRecognized"=dword:00000000
"MinimumT1Timeout"=dword:00000008

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Nbf\Performance]
"Library"="Perfctrs.dll"
"Open"="OpenNbfPerformanceData"
"Collect"="CollectNbfPerformanceData"
"Close"="CloseNbfPerformanceData"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Nbf\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,74,00,42,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,54,00,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,00,05,20,00,00,20,02,00,00,54,00,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00,54,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Nbf\Enum]
"0"="Root\LEGACY_NBF\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ncr53c9x]
"Type"=dword:00000001
"Start"=dword:00000004

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"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ncr77c22]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ncr77c22\Device0]
"VgaCompatible"=dword:00000001
"InstalledDisplayDrivers"=hex(7):76,67,61,00,76,67,61,32,35,36,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ncr700]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000004

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ncr710]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000005

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ncr710\Enum]
"0"="Root\LEGACY_NCR710\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="NDIS"
"DisplayName"="Microsoft NDIS System Driver"
"ErrorControl"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\MediaTypes]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\EISA]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\EISA\3C592]
"Id"=dword:20596d50
"Mask"=dword:f0fffff
"Token"="3C592"

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\3C597]
"Id"=dword:70596d50
"Mask"=dword:f0ffffff
"token"="3C597"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\BONSAI]
"Id"=dword:0062110e
"Mask"=dword:00ffffff
"token"="BONSAI"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\C320TNT]
"Id"=dword:0032530e
"Mask"=dword:00ffffff
"token"="C320TNT"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\DE425]
"Id"=dword:5042a310
"Mask"=dword:f0ffffff
"token"="DE425"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\DEC300]
"Id"=dword:0230a310
"Mask"=dword:00ffffff
"token"="DEC300"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\DEC422]
"Id"=dword:2042a310
"Mask"=dword:f0ffffff
"token"="DEC422"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\DURANGO]
"Id"=dword:0260110e
"Mask"=dword:00ffffff
"token"="DURANGO"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\ELNK3EISA]
"Id"=dword:90506d50
"Mask"=dword:f0ffffff
"token"="ELNK3EISA"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\ES3210]
"Id"=dword:00012949
"Mask"=dword:00ffffff
"token"="ES3210"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\F70XX]
"Id"=dword:0006690e
"Mask"=dword:00ffffff
"token"="F70XX"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\FL32]
"Id"=dword:1010d425
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"Mask"=dword:ffffffff
"token"="FL32"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\FLNK]
"Id"=dword:00776d50
"Mask"=dword:00ffffff
"token"="FLNK"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\J2577A]
"Id"=dword:4019f022
"Mask"=dword:f0ffffff
"token"="J2577A"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\MAPLE]
"Id"=dword:0160110e
"Mask"=dword:00ffffff
"token"="MAPLE"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\NE3200]
"Id"=dword:0007cc3a
"Mask"=dword:00ffffff
"token"="NE3200"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\NETFLEX3]
"Id"=dword:20f1110e
"Mask"=dword:f0ffffff
"token"="NETFLEX3"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\NETFLEX3.1]
"Id"=dword:40f1110e
"Mask"=dword:f0ffffff
"token"="NETFLEX3"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\NETFLX]
"Id"=dword:0061110e
"Mask"=dword:00ffffff
"token"="NETFLX"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\NF3500]
"Id"=dword:0084633a
"Mask"=dword:00ffffff
"token"="NF3500"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\NPEISA.1]
"Id"=dword:0002093a
"Mask"=dword:00ffffff
"token"="NPEISA"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\NPEISA.2]
"Id"=dword:0003093a
"Mask"=dword:00ffffff
"token"="NPEISA"
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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\P1990]
"Id"=dword:00604f42
"Mask"=dword:00ffffff
"token"="P1990"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\RODAN]
"Id"=dword:0063110e
"Mask"=dword:00ffffff
"token"="RODAN"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\SKETHNT]
"Id"=dword:0002644d
"Mask"=dword:000ffffff
"token"="SKETHNT"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\SKFENT]
"Id"=dword:0001644d
"Mask"=dword:000ffffff
"token"="SKFENT"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\SMC8232]
"Id"=dword:0080a34d
"Mask"=dword:00ffffff
"token"="SMC8232"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\TLNK3E]
"Id"=dword:9c616d50
"Mask"=dword:f0ffffff
"token"="TLNK3E"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\EISA\TLNK3EISA]
"Id"=dword:90616d50
"Mask"=dword:f0ffffff
"token"="TLNK3EISA"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\MCA]
"Id"=dword:00006413
"token"="AT1700"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\MCA\EE16MC]
"Id"=dword:0000628b
"token"="EE16MC"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\MCA\E1INK527]
"Id"=dword:00000041
"token"="E1INK527"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\MCA\ELNK3MCA.1]
"Id"=dword:00000041
"token"="ELNK3MCA"
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"Id"=dword:0000627c

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\ELNK3MCA.2]
"token"="ELNK3MCA"
"Id"=dword:0000627d

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\ELNK3MCA.3]
"token"="ELNK3MCA"
"Id"=dword:000061db

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\ELNK3MCA.4]
"token"="ELNK3MCA"
"Id"=dword:000062f6

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\ELNK3MCA.5]
"token"="ELNK3MCA"
"Id"=dword:000062f7

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\ELNKMC]
"token"="ELNKMC"
"Id"=dword:00006042

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\F30XX]
"Id"=dword:00000070
"token"="F30XX"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\HPMCA]
"Id"=dword:000063ca
"token"="HPMCA"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\IBMENIIN]
"Id"=dword:0000ffe0
"token"="IBMENIIN"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\IBMTOKA]
"token"="IBMTOKA"
"Id"=dword:0000e000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\IBMTOKMC]
"token"="IBMTOKMC"
"Id"=dword:0000e001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\IRMAtrac.1]
"Id"=dword:00005c1c
"token"="IRMAtrac"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\IRMAtrac.2]
"Id"=dword:00005c1d
"token"="IRMAtrac"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\NCRTOK]
"Id"=dword:00000100
"token"="NCRTOK"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\NPMCA]
"token"="NPMCA"
"Id"=dword:00000069

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\OCTK16.1]
"Id"=dword:00000a84
"token"="OCTK16"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\OCTK16.2]
"Id"=dword:00000a85
"token"="OCTK16"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\OCTK16.3]
"Id"=dword:00000a86
"token"="OCTK16"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\QUADENET.1]
"Id"=dword:00008f6d
"token"="QUADENET"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\QUADENET.2]
"Id"=dword:00008f6a
"token"="QUADENET"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\SKFMNT.1]
"Id"=dword:00000083
"token"="SKFMNT"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\SKFMNT.2]
"Id"=dword:000000ab
"token"="SKFMNT"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\STREAMER.1]
"Id"=dword:00008fa0
"token"="STREAMER"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\STREAMER.2]
"Id"=dword:00008fa2
"token"="STREAMER"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\STREAMER.3]
"Id"=dword:00008fa8
"token"="STREAMER"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\STREAMER.4]
"Id"=dword:00008faa

"token"="STREAMER"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\TC\$4046E]
"Id"=dword:00000051
"token"="TC\$4046E"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\UBPS]
"token"="UBPS"
"Id"=dword:00007012

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\WAVELAN_MCA]
"Id"=dword:00006a14
"token"="WAVELAN_MCA"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\WD8003EA]
"token"="WD8003EA"
"Id"=dword:000067c0

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\WD8003WA]
"token"="WD8003WA"
"Id"=dword:000067c2

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\WD8013EPA]
"token"="WD8013EPA"
"Id"=dword:000061c8

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\MCA\WD8013WPA]
"token"="WD8013WPA"
"Id"=dword:000061c9

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\PCI]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\PCI\3C590]
"Id"=dword:590010b7
"token"="3C590"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\PCI\3C595]
"Id"=dword:595010b7
"token"="3C595"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\PCI\3C905]
"Id"=dword:905010b7
"token"="3C905"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\PCI\ALANE0]
"Id"=dword:59009004
"token"="ALANE0"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\NetDetect\PCI\AMDPCI]
"token"="AMDPCI"

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"Id"=dword:20001022

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\DC21040]
"token"="DC21040"
"Id"=dword:00021011

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\DC21041]
"token"="DC21041"
"Id"=dword:00141011

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\DC21140]
"token"="DC21140"
"Id"=dword:00091011

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\DC21142]
"token"="DC21142"
"Id"=dword:00191011

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\DEFPA]
"token"="DEFPA"
"Id"=dword:000f1011

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\E100BPCI]
"Id"=dword:12298086
"token"="E100BPCI"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\E10PCI]
"Id"=dword:12268086
"token"="E10PCI"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\LEC]
"Id"=dword:100110b6
"token"="LEC"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\NCPF]
"Id"=dword:000111bc
"token"="NCPF"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\NETFLEX3.1]
"Id"=dword:f1300e11
"token"="NETFLEX3"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\NETFLEX3.2]
"Id"=dword:ae320e11
"token"="NETFLEX3"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\NETFLEX3.3]
"Id"=dword:ae340e11
"token"="NETFLEX3"

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\NETFLEX3.4]
"Id"=dword:ae350e11
"token"="NETFLEX3"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\NETFLEX3.5]
"Id"=dword:ae430e11
"token"="NETFLEX3"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\NETFLEX3.6]
"Id"=dword:ae400e11
"token"="NETFLEX3"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\NETFLEX3.7]
"Id"=dword:f1500e11
"token"="NETFLEX3"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\O100PCI]
"Id"=dword:0011108d
"token"="O100PCI"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\OCE4XMP]
"Id"=dword:0013108d
"token"="OCE4XMP"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\OCTK16]
"Id"=dword:0001108d
"token"="OCTK16"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\RNSFDDI]
"Id"=dword:22001112
"token"="RNSFDDI"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\RTL8029]
"Id"=dword:802910ec
"token"="RTL8029"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\SKFPNT]
"Id"=dword:40001148
"token"="SKFPNT"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\SKTOKNT_PCI]
"Id"=dword:42001148
"token"="SKTOKNT_PCI"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\NetDetect\PCI\STREAMER]
"Id"=dword:00181014
"token"="STREAMER"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\Parameters]
"ProcessorAffinityMask"=dword:ffffffff

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NDIS\Enum]
"0"="Root\LEGACY_NDIS\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NetBIOS]
"Type"=dword:00000002
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5
c,53,79,73,74,65,6d,33,32,\

5c,64,72,69,76,65,72,73,5c,6e,65,74,62,69,6f,73,2e,73
,79,73,00
"DisplayName"="NetBIOS Interface"
"Group"="NetBIOSGroup"
"DependOnService"=hex(7):00
"DependOnGroup"=hex(7):54,44,49,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NetBIOS\Linkage]
"LanaMap"=hex:01,00,01,01
"Bind"=hex(7):5c,44,65,76,69,63,65,5c,4e,65,74,42,54,
5f,4e,31,30,30,31,00,5c,\

44,65,76,69,63,65,5c,4e,62,66,5f,4e,31,30,30,31,00,00
"Export"=hex(7):5c,44,65,76,69,63,65,5c,4e,65,74,62,6
9,6f,73,5c,4e,65,74,42,54,\

5f,4e,31,30,30,31,00,5c,44,65,76,69,63,65,5c,4e,65,74
,62,69,6f,73,5c,4e,62,\
66,5f,4e,31,30,30,31,00,00
"Route"=hex(7):22,4e,65,74,42,54,22,20,22,4e,31,30,30
,22,20,22,4e,31,30,30,31,\

22,00,22,4e,62,66,22,20,22,4e,31,30,30,22,20,22,4e,31
,30,30,31,22,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NetBIOS\Linkage\Disabled]
"Bind"=hex(7):00
"Export"=hex(7):00
"Route"=hex(7):00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NetBIOS\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NetBIOS\Parameters\Winsock]
"HelperDllName"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,
74,25,5c,73,79,73,74,65,\
6d,33,32,5c,77,73,68,6e,65,74,62,73,2e,64,6c,6c,00
"MaxSockAddrLength"=dword:00000014
"MinSockAddrLength"=dword:00000014
"Mapping"=hex:02,00,00,00,03,00,00,00,11,00,00,00,05,
00,00,00,00,00,00,11,\
00,00,00,02,00,00,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\NetBIOS\Security]

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"Security"=hex:01,00,14,80,cc,00,00,00,d8,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,98,00,06,00,00,00,00,03,18,00,00,00,02,00,01,01,00,\
00,00,00,01,00,00,00,00,00,00,00,00,00,03,18,00,ff,01,0f,00,01,02,00,00,\
00,00,00,05,20,00,00,00,20,02,00,00,00,03,18,00,ff,01,0f,00,01,01,00,00,00,\
00,00,05,12,00,00,00,20,02,00,00,00,03,18,00,00,00,02,00,01,02,00,00,00,\
00,05,20,00,00,00,23,02,00,00,00,03,18,00,9d,00,00,00,01,01,00,00,00,00,\
05,04,00,00,00,23,02,00,00,00,03,18,00,9d,00,00,00,01,02,00,00,00,00,05,\
20,00,00,00,21,02,00,00,01,01,00,00,00,00,00,05,12,00,00,00,01,01,00,00,\
00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBIOS\Enum]
"0"="Root\\LEGACY_NETBIOS\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBIOSInformation]
"Type"=dword:00000004
"Start"=dword:00000003
"ErrorControl"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBIOSInformation\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBIOSInformation\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBIOSInformation\Parameters]
"Route"=hex(7):22,4e,65,74,42,54,22,20,22,4e,31,30,30,22,20,22,4e,31,30,30,31,\
22,20,22,4e,62,66,22,20,22,4e,31,30,30,22,20,22,4e,31,30,30,31,22,00,00
"MaxLana"=dword:00000001
"LanaNum1"=dword:00000000
"EnumExport1"=dword:00000001
"LanaNum2"=dword:00000001
"EnumExport2"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT]
"Type"=dword:00000001
"Start"=dword:00000002

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"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5c,53,79,73,74,65,6d,33,32,\
5c,64,72,69,76,65,72,73,5c,6e,65,74,62,74,2e,73,79,73,00
"DisplayName"="WINS Client (TCP/IP)"
"Group"="PNP_TDI"
"DependOnService"=hex(7):54,63,70,69,70,00,00
"DependOnGroup"=hex(7):00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Adapters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Adapters\N1001]
"NameServer"=""
"NameServerBackup"=""

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Linkage]
"OtherDependencies"=hex(7):54,63,70,69,70,00,00
"Bind"=hex(7):5c,44,65,76,69,63,65,5c,4e,31,30,30,31,00,00
"Export"=hex(7):5c,44,65,76,69,63,65,5c,4e,65,74,42,54,5f,4e,31,30,30,31,00,00
"Route"=hex(7):22,4e,31,30,30,22,20,22,4e,31,30,30,31,22,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Linkage\Disabled]
"Bind"=hex(7):00
"Export"=hex(7):00
"Route"=hex(7):00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Parameters]
"NbProvider"="tcp"
"NameServerPort"=dword:00000089
"EnableLMHOSTS"=dword:00000001
"EnableProxy"=dword:00000000
"EnableDNS"=dword:00000000
"CacheTimeout"=dword:000927c0
"BcastNameQueryCount"=dword:00000003
"BcastQueryTimeout"=dword:000002ee
"NameSrvQueryCount"=dword:00000003
"NameSrvQueryTimeout"=dword:000005dc
"Size/Small/Medium/Large"=dword:00000001
"SessionKeepAlive"=dword:000493e0
"ScopeID"=""
"TransportBindName"=""\Device\\"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00,8d,01,02,00,01,01,00,\

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00,00,00,00,01,00,00,00,00,20,02,00,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,00,00,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,00,00,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\
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\NetBT\Enum]
"0"="Root\\LEGACY_NETBT\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetDDE]
"Type"=dword:00000020
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,73,79,73,74,65,6d,33,\
32,5c,6e,65,74,64,64,65,2e,65,78,65,00
"DependOnService"=hex(7):4e,65,74,44,44,45,44,53,44,4d,00,00
"DisplayName"="Network DDE"
"ObjectName"="LocalSystem"
"Group"="NetDDEGroup"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetDDE\Security]
"Security"=hex:01,00,14,80,9c,00,00,00,a8,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,68,00,04,00,00,00,00,03,18,00,8d,00,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,00,00,00,00,00,00,03,18,00,ff,01,0f,00,01,02,00,00,\
00,00,00,05,20,00,00,00,20,02,00,00,00,03,18,00,8f,00,02,00,01,02,00,00,00,\
00,00,05,20,00,00,00,23,02,00,00,00,03,18,00,9d,00,00,00,01,01,00,00,00,00,\
00,05,04,00,00,00,23,02,00,00,01,01,00,00,00,00,00,05,12,00,00,00,01,01,00,\
00,00,00,00,05,12,00,00,00

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetDDEdsdm]
"Type"=dword:00000020
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,73,79,73,74,65,6d,33,\
32,5c,6e,65,74,64,64,65,2e,65,78,65,00
"DependOnService"=hex(7):00,00
"DisplayName"="Network DDE DSDM"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetDDEdsdm\Security]
"Security"=hex:01,00,14,80,9c,00,00,00,a8,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,68,00,04,00,00,00,03,18,00,8d,00,02,00,01,01,00,\
00,00,00,01,00,00,00,00,00,00,00,00,00,03,18,00,ff,01,0f,00,01,02,00,00,\
00,00,00,05,20,00,00,20,02,00,00,00,03,18,00,8f,00,02,00,01,02,00,00,00,\
00,00,05,20,00,00,23,02,00,00,03,18,00,9d,00,00,00,01,01,00,00,00,00,\
00,05,04,00,00,23,02,00,01,01,00,00,00,00,05,12,00,00,00,01,01,00,\
00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetDetect]
"Type"=dword:00000001
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"DisplayName"="NetDetect"
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5c,73,79,73,74,65,6d,33,32,\
5c,64,72,69,76,65,72,73,5c,6e,65,74,64,74,65,63,74,2e,73,79,73,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetDetect\Enum]
"0"="Root\LEGACY_NETDETECT\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetLogon]
"Type"=dword:00000020
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,\
32,5c,6c,73,61,73,73,2e,65,78,65,00
"DisplayName"="Net Logon"
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"Group"="RemoteValidation"
"DependOnService"=hex(7):4c,61,6e,6d,61,6e,57,6f,72,6b,73,74,61,74,69,6f,6e,00,\
4c,6d,48,6f,73,74,73,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetLogon\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetLogon\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetLogon\Parameters]
"DisablePasswordChange"=dword:00000000
"Update"="no"
"Scripts"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,73,79,73,74,65,6d,33,\
32,5c,72,65,70,6c,5c,69,6d,70,6f,72,74,5c,73,63,72,69,70,74,73,00
"DBFlag"="0"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetLogon\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,01,00,00,00,01,01,00,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,23,02,00,00,00,00,05,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,20,02,00,00,00,00,00,05,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,25,02,00,00,00,00,05,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,25,02,00,00,01,01,00,00,\
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\Npfs]
"Type"=dword:00000002
"Start"=dword:00000001
"Group"="File system"
"ErrorControl"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Npfs\Aliases]
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"lsass"=hex(7):6e,65,74,6c,6f,67,6f,6e,00,6c,73,61,72,70,63,00,73,61,6d,72,00,\
00
"ntsvcs"=hex(7):73,72,76,73,76,63,00,77,6b,73,73,76,63,00,65,76,65,6e,74,6c,6f,\
67,00,62,72,6f,77,73,65,72,00,6d,73,67,73,76,63,00,73,76,63,63,74,6c,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Npfs\Enum]
"0"="Root\LEGACY_NPFS\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NTFROB]
"Type"=dword:00000001
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,3f,3f,5c,43,3a,5c,66,72,6f,62,5c,46,52,4f,42,53,59,53,2e,\
53,59,53,00
"DisplayName"="NTFROB"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NTFROB\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,01,00,00,00,00,00,00,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,23,02,00,00,00,00,00,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,20,02,00,00,00,00,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,25,02,00,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,25,02,00,00,01,01,00,00,\
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\Ntfs]
"Type"=dword:00000002
"Start"=dword:00000001
"Group"="File system"
"ErrorControl"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ntfs\Enum]
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"0"="Root\\LEGACY_NTFS\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\NtLmSsp]
"Type"=dword:00000020
"Start"=dword:00000004
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,\\32,5c,53,45,52,56,49,43,45,53,2e,45,58,45,00
"DisplayName"="NT LM Security Support Provider"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\NtLmSsp\\Linkage]

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\NtLmSsp\\Linkage\\Disabled]

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\NtLmSsp\\Parameters]

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\NtLmSsp\\Security]
"Security"=hex:01,00,14,80,cc,00,00,00,d8,00,00,00,14,00,00,00,34,00,00,00,02,\\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,00,01,00,00,\\
00,00,20,02,00,00,02,00,98,00,06,00,00,00,00,03,18,00,00,00,02,00,01,01,00,\\
00,00,00,01,00,00,00,00,00,00,00,00,00,03,18,00,ff,01,0f,00,01,02,00,00,\\
00,00,00,05,20,00,00,00,20,02,00,00,00,03,18,00,ff,01,0f,00,01,01,00,00,00,\\
00,00,05,12,00,00,00,20,02,00,00,00,03,18,00,00,00,02,00,01,02,00,00,00,\\
00,05,20,00,00,00,23,02,00,00,00,03,18,00,9d,00,00,00,01,01,00,00,00,00,\\
05,04,00,00,00,23,02,00,00,00,03,18,00,9d,00,00,00,01,02,00,00,00,00,05,\\
20,00,00,00,21,02,00,00,01,01,00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,\\
00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\NtLmSsp\\Enum]
"0"="Root\\LEGACY_NTLMSSP\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Null]
"Type"=dword:00000001

```

```

"Start"=dword:00000001
"Group"="Base"
"ErrorControl"=dword:00000001
"Tag"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Null\\Enum]
"0"="Root\\LEGACY_NULL\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Oliscsi]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000003

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Parallel]
"DependOnGroup"=hex(7):50,61,72,61,6c,6c,65,6c,20,61,72,62,69,74,72,61,74,6f,\\72,00,00
"DependOnService"=hex(7):50,61,72,70,6f,72,74,00,00
"Type"=dword:00000001
"Start"=dword:00000002
"Group"="Extended base"
"ErrorControl"=dword:00000000
"Tag"=dword:00000002

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Parallel\\Parameters]

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Parallel\\Enum]
"0"="Root\\LEGACY_PARALLEL\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Parport]
"Type"=dword:00000001
"Start"=dword:00000002
"Group"="Parallel arbitrator"
"ErrorControl"=dword:00000000
"Tag"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Parport\\Enum]
"0"="Root\\LEGACY_PARPORT\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\ParVdm]
"DependOnGroup"=hex(7):50,61,72,61,6c,6c,65,6c,20,61,72,62,69,74,72,61,74,6f,\\72,00,00
"DependOnService"=hex(7):50,61,72,70,6f,72,74,00,00
"Type"=dword:00000001
"Start"=dword:00000002
"Group"="Extended base"

```

```

"ErrorControl"=dword:00000000
"Tag"=dword:00000002

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\ParVdm\\Parameters]

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\ParVdm\\Enum]
"0"="Root\\LEGACY_PARVDM\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\PCIDump]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="PCI Configuration"
"ErrorControl"=dword:00000000
"Tag"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\PCIDump\\Enum]
"Count"=dword:00000000
"NextInstance"=dword:00000000

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Pcmcia]
"ErrorControl"=dword:00000001
"Group"="System Bus Extender"
"Start"=dword:00000004
"Tag"=dword:00000001
"Type"=dword:00000001

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Pcmcia\\DataBase]

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Pcmcia\\DataBase\\3Com Corporation]

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Pcmcia\\DataBase\\3Com Corporation\\3C589]
"Driver"="elnk3"
"Option"="ELNK3ISA509"
"InfFileName"="oemnad3.inf"
"DeviceType"="NET"

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Pcmcia\\DataBase\\Accton]

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Pcmcia\\DataBase\\Accton\\EN2212]
"DeviceType"="NET"
"Driver"="ne2000"
"InfFileName"="oemnadzz.inf"
"Option"="ACCTONEN2216"

[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Pcmcia\\DataBase\\Accton\\EN2216-PCMCIA-ETHERNET]
"DeviceType"="NET"
"Driver"="ne2000"
"InfFileName"="oemnadzz.inf"
"Option"="ACCTONEN2216"

```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Adaptec, Inc.]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Adaptec, Inc.\APA-1460 SCSI Host
Adapter]
"Driver"="sparrow"
"DeviceType"="SCSI"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Compaq]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Compaq\Ethernet LAN Card]
"AttributeMemorySize"=dword:00001000
"DeviceType"="NET"
"Driver"="cpqndis"
"InfFileName"="oemnadzz.inf"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\D-Link]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\D-Link\DE-650]
"Driver"="ne2000"
"DeviceType"="NET"
"Option"="DLINKDE650"
"InfFileName"="oemnadzz.inf"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Diehl ISDN]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Diehl ISDN\ISDN-DIVA\PCM]
"DeviceType"="NET"
"Driver"="Diehl_DIVA_TED5ES"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Future Domain Corporation]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Future Domain Corporation\SCSI
PCMCIA Credit Card Controller]
"Driver"="fd16_700"
"DeviceType"="SCSI"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\IBM]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\IBM\TOKEN RING]
"Driver"="ibmtok"
"DeviceType"="NET"
"InfFileName"="oemadtk.inf"
"Option"="IBMTOK"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\IBM Corp.]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\IBM Corp.\Ethernet]
"AttributeMemorySize"=dword:00001000
"CardMemorySize"=dword:00000000
```

```
"Driver"="ne2000"
"Option"="NE2000IBMCOMPAT"
"InfFileName"="oemnadni.inf"
"DeviceType"="NET"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Kingston Technology Corp.]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Kingston Technology Corp.\EtheRx]
"AttributeMemorySize"=dword:00001000
"CardMemorySize"=dword:00000000
"Driver"="ne2000"
"Option"="NE2000IBMCOMPAT"
"InfFileName"="oemnadni.inf"
"DeviceType"="NET"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\KME]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\KME\KXLC002]
"Driver"="qlmini"
"DeviceType"="SCSI"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\MADGE]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\MADGE\SMART 16/4 PCMCIA RINGNODE]
"Driver"="madgempot"
"Option"="MSMDGMPPCMCIA"
"InfFileName"="oemnadma.inf"
"DeviceType"="NET"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Microdyne]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Microdyne\NE4200]
"AttributeMemorySize"=dword:00001000
"CardMemorySize"=dword:00000000
"Driver"="ne2000"
"Option"="NE2000IBMCOMPAT"
"InfFileName"="oemnadni.inf"
"DeviceType"="NET"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\National Semiconductor]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\National Semiconductor\InfoMover
NE4100]
"AttributeMemorySize"=dword:00001000
"CardMemorySize"=dword:00000000
"Driver"="ne2000"
"Option"="NE2000IBMCOMPAT"
"InfFileName"="oemnadni.inf"
"DeviceType"="NET"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\OLICOM]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\OLICOM\ETHERCOM]
"DeviceType"="NET"
"Driver"="oce2xm"
"Option"="GOCARD"
"InfFileName"="oemnadzz.inf"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\OLICOM\TR 16/4 II]
"DeviceType"="NET"
"Driver"="octk16"
"Option"="PCMCIA"
"InfFileName"="oemnadzz.inf"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Socket Communications Inc]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Socket Communications Inc\Socket EA
PCMCIA LAN Adapter Revision D]
"AttributeMemorySize"=dword:00000000
"CardMemorySize"=dword:00000000
"Driver"="ne2000"
"Option"="NE2000SOCKETEA"
"InfFileName"="oemnadn2.inf"
"DeviceType"="NET"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Socket Communications Inc\Socket EA
PCMCIA LAN Adapter Revision E]
"AttributeMemorySize"=dword:00000000
"CardMemorySize"=dword:00000000
"Driver"="ne2000"
"Option"="NE2000SOCKETEA"
"InfFileName"="oemnadn2.inf"
"DeviceType"="NET"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Xircom]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Xircom\CreditCard 10Base-T]
"Option"=""
"InfFileName"="oemnadzz.inf"
"DeviceType"="NET"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Xircom\CreditCard 10Base-T\5331]
"Driver"="ce2xps"
"AttributeMemorySize"=dword:00001000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Xircom\CreditCard 10Base-T\5FFFA]
"Driver"="cendis3"
"AttributeMemorySize"=dword:00001000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Xircom\CreditCard 10Base-T\64BA]
"AttributeMemorySize"=dword:00001000
"Driver"="ce2xps"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Pcmcia\DataBase\Xircom\CreditCard 10Base-T\9C9B]
```



```

"Type"=dword:00000110
"Start"=dword:00000004
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,57,49,4e,4e,54,5c,53,79,7
3,74,65,6d,33,32,5c,70,73,\
74,6f,72,65,73,2e,65,78,65,00
"DisplayName"="Protected Storage"
"DependOnService"=hex(7):52,70,63,53,73,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\ProtectedStorage\Parameters]
"AuthCodeCfg"=dword:00000001
"Configuration"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\ProtectedStorage\Parameters\S]
"pstores.exe"=hex:13,ff,e7,bb,a3,f2,01,1e,87,bb,e8,cd
,c2,85,a1,c4,6c,c2,08,a4,\

43,fc,73,49,62,7c,91,69,bb,2f,d0,8c,b1,7b,1f,4a,4c,0b
,0f,68,28,91,98,2f,99,\

41,7a,86,1f,4d,e6,70,72,86,6f,5a,25,1f,4f,4e,26,bc,f8
,7b,1f,45,bf,ab,c5,50,\

63,c2,c1,0a,af,c5,e1,78,4e,49,80,b2,d1,84,ec,17,8a,e6
,f8,47,de,c6,81,f6,85,\

a9,0f,f6,1f,e9,28,20,ba,6f,74,a7,97,79,c0,2a,28,4f,48
,f2,ee,e0,4f,d5,98,24,\
b0,62,9e,43,c9,83,d6,4b,00,00,00,00,00,00,00,00
"psbase.dll"=hex:d0,08,ef,10,2b,bf,b2,f2,23,2a,9a,9f,
b9,93,59,a2,99,4e,7a,9d,\

11,c9,39,f4,66,1c,89,72,26,e0,64,ab,e2,7a,8d,56,86,80
,0f,9c,aa,99,16,bf,50,\

fe,16,2d,83,41,f3,8a,1a,75,76,67,d1,e2,87,d4,e6,87,4d
,4f,68,63,ee,7e,67,a4,\

0c,3e,e4,5f,e8,27,88,85,d2,61,ae,ec,e6,f0,b9,59,75,88
,68,3a,3f,93,8e,53,9c,\

b7,fa,3c,0f,b0,0d,76,7b,a2,b4,42,46,49,f8,f3,a1,2a,97
,42,7d,7d,23,2e,ef,13,\
87,58,87,0d,76,ac,97,07,00,00,00,00,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\ProtectedStorage\Parameters\S2]
"pstores.exe"=hex:85,88,4d,da,80,23,97,51,7d,ed,3f,28
,64,e7,34,cc,1b,ff,d9,8e,\

95,1b,60,d4,72,df,64,a3,e2,a3,7d,af,4b,1a,f3,19,cb,f3
,6d,f2,3d,bb,30,b6,fe,\

35,fe,66,1e,29,f5,a0,bc,d9,b3,07,9e,02,b9,ac,f2,37,70
,8b,4f,87,41,b8,a9,66,\

ab,cf,4d,1e,54,50,68,d0,51,a0,48,af,44,1c,23,b7,27,f8
,4a,7b,86,54,5a,42,86,\

```

```

e2,a3,c2,07,0f,ef,13,a2,72,b4,8a,e7,31,d4,4a,d3,ef,3a
,11,9d,51,2f,52,ec,c6,\
6c,d3,28,43,45,30,e2,72,00,00,00,00,00,00,00,00,00
"psbase.dll"=hex:e6,ba,57,e2,1b,88,fc,20,01,ed,35,32,
7e,8f,36,97,41,4c,e1,76,\

97,ef,60,09,38,ea,86,6b,43,d6,30,4e,10,6b,c1,75,61,84
,d2,1b,c7,eb,b2,18,f1,\

13,cb,a0,6c,8f,31,65,8e,00,93,5e,72,78,97,61,63,d1,74
,9f,19,e6,b4,08,fc,ba,\

ba,df,b1,9e,da,17,19,5d,95,22,f9,f6,60,40,ae,c4,72,0b
,d1,74,7c,86,a8,8a,f8,\

d2,ba,14,63,f2,a5,25,b9,a2,b7,86,58,1e,4e,92,28,cf,41
,6a,b7,57,4c,44,67,51,\
48,47,85,f5,6e,00,99,af,00,00,00,00,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\ProtectedStorage\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,00,00,73,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,60,3e,15,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,60,3e,15
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00
,60,3e,15,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,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
\ProtectedStorage\Enum]
"0"="Root\LEGACY_PROTECTEDSTORAGE\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\psidisp]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\psidisp\Device0]
"VgaCompatible"=dword:00000000
"InstalledDisplayDrivers"=hex(7):70,73,69,64,69,73,70
,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Q110wnt]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000023

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\qv]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\qv\Device0]
"VgaCompatible"=dword:00000001
"InstalledDisplayDrivers"=hex(7):76,67,61,00,71,76,00
,00
"HardwareInformation.AdapterString"=hex:51,00,56,00,4
7,00,41,00,20,00,4e,00,65,\
00,77,00,00,00
"HardwareInformation.ChipType"=hex:51,00,56,00,47,00,
41,00,20,00,4e,00,65,00,\
77,00,00,00
"HardwareInformation.DacType"=hex:55,00,6e,00,6b,00,6
e,00,6f,00,77,00,6e,00,00,\
00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Rdr]
"Type"=dword:00000002
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5
c,53,79,73,74,65,6d,33,32,\
5c,64,72,69,76,65,72,73,5c,72,64,72,2e,73,79,73,00
"DisplayName"="Rdr"
"Group"="Network"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Rdr\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Rdr\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Rdr\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Rdr\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

```

```

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,00,00,00,00,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,02,00,04,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,02,00,04
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00
,02,00,04,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,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
\Rdr\Enum]
"0"="Root\LEGACY_RDR\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Replicator]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,5c,53,79,73,74,65,6d,33,\
32,5c,6c,6d,72,65,70,6c,2e,65,78,65,00
"DisplayName"="Directory Replicator"
"DependOnService"=hex(7):4c,61,6e,6d,61,6e,57,6f,72,6
b,73,74,61,74,69,6f,6e,00,\
4c,61,6e,6d,61,6e,53,65,72,76,65,72,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Replicator\Exports]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Replicator\Imports]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Replicator\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Replicator\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Replicator\Parameters]
"Replicate"=dword:00000002
"ImportPath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,
25,5c,53,79,73,74,65,6d,\
33,32,5c,52,65,70,6c,5c,49,6d,70,6f,72,74,00
"ExportPath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,
25,5c,53,79,73,74,65,6d,\

```

```

33,32,5c,52,65,70,6c,5c,45,78,70,6f,72,74,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Replicator\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,00,00,00,00,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,02,00,04,00,00,00
,1c,00,ff,01,0f,00,01,\

02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,02,00,04
,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00
,02,00,04,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,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
\RPCLOCATOR]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,5c,53,79,73,74,65,6d,33,\
32,5c,4c,4f,43,41,54,4f,52,2e,45,58,45,00
"DisplayName"="Remote Procedure Call (RPC) Locator"
"ObjectName"="LocalSystem"
"DependOnService"=hex(7):4c,61,6e,6d,61,6e,57,6f,72,6
b,73,74,61,74,69,6f,6e,00,\
52,64,72,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RPCLOCATOR\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RPCLOCATOR\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RPCLOCATOR\Parameters]
"ExpirationAge"=dword:00000e10

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RPCLOCATOR\Security]
"Security"=hex:01,00,14,80,cc,00,00,00,d8,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,98,00,06,00,00,00,00,03,18,00
,00,00,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,00,00,00,00,00,03,18,00,ff
,01,0f,00,01,02,00,00,\

00,00,00,05,20,00,00,00,20,02,00,00,00,03,18,00,ff,01
,0f,00,01,01,00,00,00,\

00,00,05,12,00,00,00,20,02,00,00,00,03,18,00,00,00,02
,00,01,02,00,00,00,00,\

00,05,20,00,00,00,23,02,00,00,03,18,00,9d,00,00,00
,01,01,00,00,00,00,00,\

05,04,00,00,00,23,02,00,00,00,03,18,00,9d,00,00,00,01
,02,00,00,00,00,00,05,\

```

```

00,00,20,02,00,00,02,00,98,00,06,00,00,00,00,03,18,00
,00,00,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,00,00,00,00,03,18,00,ff
,01,0f,00,01,02,00,00,\

00,00,00,05,20,00,00,00,20,02,00,00,00,03,18,00,ff,01
,0f,00,01,01,00,00,00,\

00,00,05,12,00,00,00,20,02,00,00,00,03,18,00,00,00,02
,00,01,02,00,00,00,00,\

00,05,20,00,00,00,23,02,00,00,03,18,00,9d,00,00,00
,01,01,00,00,00,00,00,\

05,04,00,00,00,23,02,00,00,00,03,18,00,9d,00,00,00,01
,02,00,00,00,00,00,05,\

20,00,00,00,21,02,00,00,01,01,00,00,00,00,00,05,12,00
,00,00,01,01,00,00,00,\
00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RpcSs]
"Type"=dword:00000010
"DisplayName"="Remote Procedure Call (RPC) Service"
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,5c,73,79,73,74,65,6d,33,\
32,5c,52,70,63,53,73,2e,65,78,65,00
"ObjectName"="LocalSystem"
"Start"=dword:00000002

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RpcSs\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\RpcSs\Security]
"Security"=hex:01,00,14,80,cc,00,00,00,d8,00,00,00,14
,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,98,00,06,00,00,00,00,03,18,00
,00,00,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,00,00,00,00,00,03,18,00,ff
,01,0f,00,01,02,00,00,\

00,00,00,05,20,00,00,00,20,02,00,00,00,03,18,00,ff,01
,0f,00,01,01,00,00,00,\

00,00,05,12,00,00,00,20,02,00,00,00,03,18,00,00,00,02
,00,01,02,00,00,00,00,\

00,05,20,00,00,00,23,02,00,00,03,18,00,9d,00,00,00
,01,01,00,00,00,00,00,\

05,04,00,00,00,23,02,00,00,00,03,18,00,9d,00,00,00,01
,02,00,00,00,00,00,05,\

```

```
20,00,00,00,21,02,00,00,01,01,00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,00,00,05,12,00,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RpcSs\Enum]
"0"="Root\LEGACY_RPCSS\000000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\s3]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\s3\Device0]
"VgaCompatible"=dword:00000000
"InstalledDisplayDrivers"=hex(7):73,33,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Schedule]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,6d,33,\32,5c,41,74,53,76,63,2e,45,78,65,00
"ObjectName"="LocalSystem"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Scsiprt]
"Type"=dword:00000001
"Start"=dword:00000002
"Group"="Extended base"
"ErrorControl"=dword:00000000
"DependOnGroup"=hex(7):53,43,53,49,20,6d,69,6e,69,70,6f,72,74,00,00
"Tag"=dword:00000003
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Scsiprt\Enum]
"Count"=dword:00000000
"NextInstance"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Scsiscan]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="SCSI Class"
"ErrorControl"=dword:00000000
"Tag"=dword:00000003
"DependOnGroup"=hex(7):53,43,53,49,20,6d,69,6e,69,70,6f,72,74,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Scsiscan\Enum]
"0"="Root\LEGACY_SCSISCAN\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Serial]
"Type"=dword:00000001
"Start"=dword:00000002
"Group"="Extended base"
"ErrorControl"=dword:00000000
"Tag"=dword:00000001
"ForceFifoEnable"=dword:00000001
"RxFIFO"=dword:00000008
"TxFIFO"=dword:00000001
"PermitShare"=dword:00000000
"LogFifo"=dword:00000000
"ShareInterrupt"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Serial\Parameters]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Serial\Enum]
"0"="Root\LEGACY_SERIAL\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Sermouse]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Pointer Port"
"ErrorControl"=dword:00000000
"Tag"=dword:00000002
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Sermouse\Parameters]
"MouseDataQueueSize"=dword:00000064
"NumberOfButtons"=dword:00000002
"SampleRate"=dword:00000028
"PointerDeviceBaseName"="PointerPort"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Sfloppy]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Primary disk"
"ErrorControl"=dword:00000000
"Tag"=dword:00000004
"DependOnGroup"=hex(7):53,43,53,49,20,6d,69,6e,69,70,6f,72,74,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Sfloppy\Enum]
"Count"=dword:00000000
"NextInstance"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Simbad]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Filter"
"ErrorControl"=dword:00000001
"Tag"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\slcd32]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000001c
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Sparrow]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000007
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Spack]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000002
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Spooler]
"Type"=dword:00000110
"Start"=dword:00000004
"Group"="SpoolerGroup"
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,73,79,73,74,65,6d,33,\32,5c,73,70,6f,6f,6c,73,73,2e,65,78,65,00
"ObjectName"="LocalSystem"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Spooler\Parameters]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Spooler\Enum]
"0"="Root\LEGACY_SPOOLER\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SQLServerAgent]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,4d,53,53,51,4c,37,5c,62,69,6e,6e,5c,73,71,6c,61,67,\65,6e,74,2e,65,78,65,00
"DisplayName"="SQLServerAgent"
"DependOnService"=hex(7):4d,53,53,51,4c,53,65,72,76,65,72,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SQLServerAgent\Security]
"Security"=hex:01,00,14,80,c0,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
```

```
00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00,
,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,
,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,76,00,63,00,00,01c,00,fd,
,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,00,00,17,00,00,00,
,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,20,02,00,00,00,00,17,
,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00,
,00,00,17,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,
,02,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,
,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Srv]
"Type"=dword:00000002
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5
c,53,79,73,74,65,6d,33,32,\
5c,64,72,69,76,65,72,73,5c,73,72,76,2e,73,79,73,00
"DisplayName"="Srv"
"Group"="Network"
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Srv\Linkage]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Srv\Linkage\Disabled]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Srv\Parameters]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Srv\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00,
,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,
,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,76,00,69,00,00,01c,00,fd,
,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,63,00,65,00,00,00,
,1c,00,ff,01,0f,00,01,\
```

```
02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,63,00,65,
,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00,
,63,00,65,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,
,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
\Srv\Enum]
"0"="Root\LEGACY_SRV\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\symc810]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000001a
"RequestedSystemResources"=hex(a):48,01,00,00,05,00,0
0,00,00,00,00,02d,00,00,\
00,00,00,00,00,00,00,00,00,00,00,00,00,01,00,00,00,01,
,00,01,00,09,00,00,00,\
00,02,03,00,00,00,00,00,35,00,00,00,35,00,00,00,00,00,
,00,00,00,00,00,00,\
00,00,00,00,00,00,01,01,01,00,01,00,00,00,00,01,00,
,00,00,01,00,00,00,28,\
00,00,00,00,00,00,ff,28,00,00,00,00,00,08,01,01,00,
,01,00,00,00,00,01,00,\
00,00,01,00,00,00,28,00,00,00,00,ff,28,00,00,00,
,00,00,00,01,03,01,00,\
00,00,00,00,01,00,00,00,01,00,00,00,00,dc,f7,00,00,
,00,00,ff,00,dc,f7,00,\
00,00,00,08,03,01,00,00,00,00,00,01,00,00,00,01,00,
,00,00,00,dc,f7,00,00,\
00,00,ff,00,dc,f7,00,00,00,00,08,03,01,00,00,00,00,00,
,00,01,00,00,00,01,00,\
00,00,00,db,f7,00,00,00,00,ff,0f,db,f7,00,00,00,00,01,
,03,01,00,00,00,00,00,\
00,10,00,00,00,10,00,00,00,db,f7,00,00,00,00,ff,0f,
,db,f7,00,00,00,00,08,\
03,01,00,00,00,00,00,00,10,00,00,00,10,00,00,00,00,dc,
,f7,00,00,00,00,ff,00,\
```

```
dc,f7,00,00,00,00,08,03,01,00,00,00,00,00,10,00,00,
,00,10,00,00,00,00,db,\
f7,00,00,00,00,ff,0f,db,f7,00,00,00,00
"ImagePath"=hex(2):53,79,73,74,65,6d,33,32,5c,44,52,4
9,56,45,52,53,5c,73,79,6d,\
63,38,31,30,2e,73,79,73,00
"PlugPlayServiceType"=dword:00000001
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysDown]
"Type"=dword:00000010
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):53,59,53,54,45,4d,33,32,5c,44,52,4
9,56,45,52,53,5c,53,59,53,\
44,4f,57,4e,2e,45,58,45,00
"DisplayName"="Compaq System Shutdown Service"
"DependOnService"=hex(7):53,79,73,4d,67,6d,74,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysDown\Linkage]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysDown\Linkage\Disabled]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysDown\Parameters]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysDown\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,02,80,18,00,ff,01,0f,00,01,01,00,
,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,
,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,00,00,00,00,00,01c,00,fd,
,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,00,00,00,00,00,00,
,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,20,02,00,00,00,00,00,00,
,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,00,00,
,00,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25,
,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
\SysDown\Enum]
"0"="Root\LEGACY_SYSDOWN\0000"
```

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"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysMgmt]
"Type"=dword:00000001
"Start"=dword:00000001
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):53,59,53,54,45,4d,33,32,5c,44,52,4
9,56,45,52,53,5c,53,59,53,\
4d,47,4d,54,2e,53,59,53,00
"DisplayName"="Compaq System Management Driver"
"Group"="System Management"
"InstalledBySetup"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysMgmt\Data]
"FeatureASR"=dword:00000002
"FeatureFan"=dword:00000002
"FeatureTemp"=dword:00000002
"FeatureECC"=dword:00000002
"FeatureDCC"=dword:00000002
"FeatureIICTemp"=dword:00000002
"FeatureHobbs"=dword:00000002
"FeatureAbend"=dword:00000002
"FeatureLogsCorr"=dword:00000002
"FeatureLogsCrit"=dword:00000002
"FeatureNMI"=dword:00000002
"FeatureCPU"=dword:00000002
"FeatureLogJA"=dword:00000002
"FeatureIRC"=dword:00000002
"SHFData"=hex:24,53,48,46,00,01,d9,03,02,0d,00,1a,00,
01,0a,00,01,01,07,01,05,\
c0,12,1e,d4,3c,02,bc,03,20,01,2e,13,01,01,03,00,7f,01
,00,c1,45,00,01,00,10,\
00,06,3c,01,00,00,01,20,02,18,1b,00,00,00,03,20,03,01
,00,17,10,00,00,05,20,\
01,01,00,02,20,01,01,00,20,01,2e,13,02,01,03,00,7f,01
,00,c1,45,00,01,00,10,\
00,06,3c,01,00,00,01,20,02,19,1b,00,00,00,03,20,03,01
,00,17,20,00,00,05,20,\
01,01,00,02,20,01,01,00,20,01,2e,13,03,01,02,00,7f,01
,00,c1,85,00,02,00,10,\
00,06,3c,01,00,00,01,20,02,1a,1b,00,00,00,03,20,03,01
,00,17,40,00,00,05,20,\
01,01,00,02,20,01,01,00,20,01,2e,13,04,01,02,00,7f,01
,00,c1,85,00,02,00,10,\
00,06,3c,01,00,00,01,20,02,1b,1b,00,00,00,03,20,03,01
,00,17,80,00,00,05,20,\
01,01,00,02,20,01,01,00,30,01,30,13,01,04,01,00,00,00
,00,c1,00,00,02,00,00,\
00,06,3c,00,00,39,01,20,02,04,1b,00,00,00,06,22,01,96
,00,02,20,01,01,00,05,\

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20,01,01,00,07,20,05,3c,00,40,30,01,1f,13,02,04,01,00
,00,00,00,c1,00,00,20,\
00,00,00,06,3c,00,00,3e,01,24,01,08,02,24,01,08,05,24
,01,08,30,01,1f,13,03,\
03,a2,00,00,00,00,00,00,20,00,00,00,00,00,00,00,39
,01,24,01,08,02,24,01,\
08,05,24,01,08,40,01,31,12,01,04,07,00,82,00,00,c1,45
,00,20,00,10,00,14,3c,\
01,00,01,20,03,01,16,17,01,00,00,03,20,03,01,16,17,04
,00,00,02,20,01,10,00,\
05,20,02,12,1b,00,00,00,40,01,31,12,02,04,07,00,82,00
,00,c1,45,00,20,00,10,\
00,14,3c,01,00,01,20,03,01,16,17,02,00,00,03,20,03,01
,16,17,08,00,00,02,20,\
01,10,00,05,20,02,12,1b,00,00,00,42,01,34,15,01,03,23
,00,7f,00,00,c1,45,00,\
20,00,08,00,06,3c,00,00,00,01,01,01,20,03,07,04,17,50
,50,00,03,20,03,01,02,\
17,08,00,00,02,20,01,10,00,05,20,02,06,03,00,00,00,42
,01,34,15,01,03,23,00,\
00,00,00,c1,45,00,20,00,08,00,06,3c,00,00,00,01,01,01
,20,03,07,04,17,a0,a0,\
00,03,20,03,07,02,17,88,00,00,02,20,01,10,00,05,20,02
,06,03,00,00,00,42,01,\
34,15,02,03,43,00,00,00,c1,85,00,20,00,08,00,06,3c
,00,00,00,02,01,01,20,\
03,07,04,17,05,05,00,03,20,03,01,02,17,04,00,00,02,20
,01,10,00,05,20,02,06,\
03,00,00,00,42,01,34,15,02,03,43,00,00,00,c1,85,00
,20,00,08,00,06,3c,00,\
00,00,02,01,01,20,03,07,04,17,0a,0a,00,03,20,03,07,02
,17,44,00,00,02,20,01,\
10,00,05,20,02,06,03,00,00,00,42,01,34,15,03,03,63,00
,00,00,00,c1,c5,00,20,\
00,08,00,06,3c,00,00,00,03,01,01,20,03,07,03,17,50,50
,00,03,20,03,01,02,17,\
02,00,00,02,20,01,10,00,05,20,02,06,03,00,00,00,42,01
,34,15,03,03,63,00,00,\
00,00,c1,c5,00,20,00,08,00,06,3c,00,00,00,03,01,01,20
,03,07,03,17,a0,a0,00,\
03,20,03,07,02,17,22,00,00,02,20,01,10,00,05,20,02,06
,03,00,00,00,42,01,34,\

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15,04,03,83,00,00,00,00,c1,05,01,20,00,08,00,06,3c,00
,00,00,04,01,01,20,03,\
07,03,17,05,05,00,03,20,03,01,02,17,01,00,00,02,20,01
,10,00,05,20,02,06,03,\
00,00,00,42,01,34,15,04,03,83,00,00,00,00,c1,05,01,20
,00,08,00,06,3c,00,00,\
00,04,01,01,20,03,07,03,17,0a,0a,00,03,20,03,07,02,17
,11,00,00,02,20,01,10,\
00,05,20,02,06,03,00,00,a0,01,28,16,01,01,04,00,00
,00,00,c1,00,00,08,00,\
00,00,c4,3c,00,00,59,3c,10,14,01,20,02,20,00,00,00,00
,02,20,01,01,00,05,20,\
01,01,00,90,01,20,10,01,02,00,00,00,00,80,00,00,40
,00,40,00,00,00,07,20,\
05,0a,00,10,02,20,01,40,00,05,20,01,40,00,24,45,4e,44
,53,48,46
"SHFSpecVer"=dword:00000100
"SHFVer"=dword:00000000
"SHFFamily"=""

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysMgmt\Linkage]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysMgmt\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysMgmt\Parameters]
"DriverMode"=dword:00000e11

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SysMgmt\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14
,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00
,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,18,00
,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,01,00,00,00,00,00,1c,00,fd
,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,c8,00,00,00,00,00
,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,05,20,00,00,00,20,02,00,00,c8,00,00
,00,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00
,c8,00,00,00,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,00,25
,02,00,00,01,01,00,00,\

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00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,00,00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SysMgmt\Enum]
"0"="Root\LEGACY_SYSMGMT\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\T128]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000012

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\T128\Parameters]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\T128\Parameters\Device0]
"DriverParameter"="IRQ=5"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\T13B]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000013

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\T13B\Parameters]
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\T13B\Parameters\Device0]
"DriverParameter"="IRQ=5"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\TapiSrv]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,73,79,73,74,65,6d,33,\
32,5c,74,61,70,69,73,72,76,2e,65,78,65,00
"ObjectName"="LocalSystem"
"DisplayName"="Telephony Service"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\TapiSrv\Performance]
"Close"="CloseTapiPerformanceData"
"Collect"="CollectTapiPerformanceData"
"Library"="tapiperf.dll"
"Open"="OpenTapiPerformanceData"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\TapiSrv\Security]
"Security"=hex:01,00,14,80,b4,00,00,00,c0,00,00,00,14,00,00,00,34,00,00,00,02,\

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00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,80,00,05,00,00,00,03,18,00,8d,00,02,00,01,01,00,\
00,00,00,01,00,00,00,00,00,00,00,00,03,18,00,ff,01,0f,00,01,02,00,00,\
00,00,00,05,20,00,00,00,20,02,00,00,00,03,18,00,8f,00,02,00,01,02,00,00,\
00,00,05,20,00,00,00,23,02,00,00,03,18,00,9d,00,00,00,01,01,00,00,00,00,\
00,05,04,00,00,00,23,02,00,00,03,18,00,9d,00,00,00,01,02,00,00,00,00,\
05,20,00,00,00,21,02,00,00,01,01,00,00,00,00,00,05,12,00,00,00,01,01,00,00,\
00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip]
"Type"=dword:00000001
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5c,53,79,73,74,65,6d,33,32,\
5c,64,72,69,76,65,72,73,5c,74,63,70,69,70,2e,73,79,73,00
"DisplayName"="TCP/IP Service"
"Group"="PNP_TDI"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Linkage]
"Bind"=hex(7):5c,44,65,76,69,63,65,5c,4e,31,30,30,31,00,00
"Export"=hex(7):5c,44,65,76,69,63,65,5c,54,63,70,69,70,5c,4e,31,30,30,31,00,00
"Route"=hex(7):22,4e,31,30,30,22,20,22,4e,31,30,30,31,22,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Linkage\Disabled]
"Bind"=hex(7):00
"Export"=hex(7):00
"Route"=hex(7):00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters]
"DataBasePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,6d,\
33,32,5c,64,72,69,76,65,72,73,5c,65,74,63,00
"Domain"=""
"Hostname"="wow"
"NameServer"=""
"ForwardBroadcasts"=dword:00000000
"IPEnableRouter"=dword:00000000
"SearchList"=""
"EnableSecurityFilters"=dword:00000000

```

```

"KeepAliveTime"=dword:000493e0

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\PersistentRoutes]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Winsock]
"HelperDllName"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,25,5c,53,79,73,74,65,\
6d,33,32,5c,77,73,68,74,63,70,69,70,2e,64,6c,6c,00
"MaxSockAddrLength"=dword:00000010
"MinSockAddrLength"=dword:00000010
"Mapping"=hex:0b,00,00,00,03,00,00,00,02,00,00,00,01,00,00,00,06,00,00,00,02,\
00,00,00,01,00,00,00,00,00,00,02,00,00,00,00,00,00,00,06,00,00,00,00,00,\
00,00,00,00,00,06,00,00,00,00,00,00,00,01,00,00,00,06,00,00,00,02,00,00,\
00,02,00,00,11,00,00,00,02,00,00,00,02,00,00,00,00,00,02,00,00,00,\
00,00,00,11,00,00,00,00,00,00,00,00,00,00,11,00,00,00,00,00,02,\
00,00,00,11,00,00,00,02,00,00,00,03,00,00,00,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Performance]
"Library"="Perfctrs.dll"
"Open"="OpenTcpIpPerformanceData"
"Collect"="CollectTcpIpPerformanceData"
"Close"="CloseTcpIpPerformanceData"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,00,14,00,00,00,34,00,00,00,02,\
00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,18,00,8d,01,02,00,01,01,00,\
00,00,00,00,01,00,00,00,00,6d,00,00,00,00,00,1c,00,fd,01,02,00,01,02,00,00,\
00,00,00,05,20,00,00,00,23,02,00,00,73,45,72,76,00,00,1c,00,ff,01,0f,00,01,\
02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,73,45,72,76,00,00,1c,00,ff,01,\
0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,00,00,73,45,72,76,00,00,18,\
00,fd,01,02,00,01,01,00,00,00,00,00,05,12,00,00,00,25,02,00,00,01,01,00,00,\

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00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,12,00,00,00

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\ServiceProvider]
"Class"=dword:00000008
"DnsPriority"=dword:000007d0
"HostsPriority"=dword:000001f4
"LocalPriority"=dword:000001f3
"ProviderPath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,7
4,25,5c,53,79,73,74,65,6d,\
33,32,5c,77,73,6f,63,6b,33,32,2e,64,6c,6c,00
"NetbtPriority"=dword:000007d1
"Name"="TCP/IP"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Enum]
"0"="Root\LEGACY_TCPIP\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\tga]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\tga\Device0]
"VgaCompatible"=dword:00000000
"InstalledDisplayDrivers"=hex(7):74,67,61,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\tmv1]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000018
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\tmv1\Parameters]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\tmv1\Parameters\Device0]
"DriverParameter"="IRQ=15"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Ultra124]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000000b
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Ultra14f]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
```

"Tag"=dword:0000000a

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Ultra24f]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:0000000c
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\update]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Base"
"ErrorControl"=dword:00000000
"Tag"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\update\Enum]
"Count"=dword:00000000
"NextInstance"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\UPS]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,53,79,73,74,65,6d,52,6f,6f,74,2
5,5c,53,79,73,74,65,6d,33,\
32,5c,75,70,73,2e,65,78,65,00
"ObjectName"="LocalSystem"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\v7vram]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\v7vram\Device0]
"VgaCompatible"=dword:00000001
"InstalledDisplayDrivers"=hex(7):76,67,61,00,76,67,61
,32,35,36,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\VgaSave]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Video Save"
"ErrorControl"=dword:00000000
"Tag"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5
c,53,79,73,74,65,6d,33,32,\
5c,64,72,69,76,65,72,73,5c,76,67,61,2e,73,79,73,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\VgaSave\Device0]
"VgaCompatible"=dword:00000001
"InstalledDisplayDrivers"=hex(7):76,67,61,00,00
"HardwareInformation.Crc32"=hex:aa,36,19,6b
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\VgaSave\Enum]
"0"="Root\LEGACY_VGASAVE\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\VgaStart]
"Type"=dword:00000001
"Start"=dword:00000001
"Group"="Video Init"
"ErrorControl"=dword:00000000
"Tag"=dword:00000001
"ImagePath"=hex(2):5c,53,79,73,74,65,6d,52,6f,6f,74,5
c,53,79,73,74,65,6d,33,32,\
5c,64,72,69,76,65,72,73,5c,76,67,61,2e,73,79,73,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\VgaStart\Device0]
"VgaCompatible"=dword:00000001
"InstalledDisplayDrivers"=hex(7):76,67,61,00,00
"ForceVga"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\VgaStart\Enum]
"Count"=dword:00000000
"NextInstance"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\VXD]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\VXD\JAVASUP]
"Start"=hex:00
"StaticVxD"="JAVASUP.VXD"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\w3svc]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\w3svc\parameters]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\w3svc\parameters\ADCLaunch]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\w3svc\parameters\ADCLaunch\AdvancedDataFactory]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\w3svc\parameters\ADCLaunch\RDSServer.DataFactory]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\w3svc\parameters\Virtual Roots]
"MSADC"="C:\\Program Files\\Common
Files\\System\\MSADC,,5"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Wd33c93]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="SCSI miniport"
"ErrorControl"=dword:00000001
"Tag"=dword:00000011
```



```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Wd33c93\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Wd33c93\Parameters\Device0]
"DriverParameter"="IRQ=10;DMA=6"
"DisableDisconnect"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\wd90c24a]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\wd90c24a\Device0]
"VgaCompatible"=dword:00000001
"InstalledDisplayDrivers"=hex(7):76,67,61,00,76,67,61,32,35,36,00,77,64,39,30,\63,32,34,61,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\wdvga]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\wdvga\Device0]
"VgaCompatible"=dword:00000001
"InstalledDisplayDrivers"=hex(7):76,67,61,00,76,67,61,32,35,36,00,76,67,61,36,\34,6b,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\weitekp9]
"Type"=dword:00000001
"Start"=dword:00000004
"Group"="Video"
"ErrorControl"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\weitekp9\Device0]
"VgaCompatible"=dword:00000000
"InstalledDisplayDrivers"=hex(7):77,65,69,74,65,6b,70,39,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock]
"Type"=dword:00000004
"Start"=dword:00000003
"ErrorControl"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock\Autodial]
"AutodialDllName32"="wininet.dll"
"AutodialFcnName32"="InternetAutodialCallback"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock\Linkage]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock\Linkage\Disabled]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock\Parameters]
"Transports"=hex(7):54,63,70,69,70,00,4e,65,74,42,49,4f,53,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock\Setup Migration]
"Setup Version"=dword:00001009
"Provider
List"=hex(7):54,63,70,69,70,00,4e,65,74,42,49,4f,53,00,00
"Known Static
Providers"=hex(7):54,63,70,69,70,00,4e,77,6c,6e,6b,49,70,78,00,\4e,77,6c,6e,6b,53,70,78,00,41,70,70,6c,65,54,61,6c,6b,00,49,73,6f,54,70,00,\00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock\Setup Migration\Providers]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock\Setup Migration\Providers\NetBIOS]
"WinSock 1.1 Provider
Data"=hex:0e,10,00,00,11,00,00,00,14,00,00,00,14,00,00,00,00,05,00,00,00,00,00,00,80,00,fa,00,00,f0,00,00,00,09,12,00,00,11,00,00,00,\14,00,00,00,14,00,00,00,02,00,00,00,00,00,00,80,00,fa,00,00,c8,00,00,00,0e,\10,00,00,11,00,00,00,14,00,00,00,14,00,00,00,05,00,00,00,ff,ff,ff,ff,ff,00,fa,\00,00,a4,00,00,00,09,12,00,00,11,00,00,00,14,00,00,00,14,00,00,00,02,00,00,\00,ff,ff,ff,ff,00,fa,00,00,80,00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,\65,00,5c,00,4e,00,62,00,66,00,5f,00,4e,00,31,00,30,00,30,00,31,00,00,00,5c,\00,44,00,65,00,76,00,69,00,69,00,63,00,65,00,5c,00,4e,00,62,00,66,00,5f,00,4e,00,\31,00,30,00,30,00,31,00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c,\00,4e,00,65,00,74,00,42,00,54,00,5f,00,4e,00,31,00,30,00,30,00,31,00,00,00,\5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c,00,4e,00,65,00,74,00,42,00,54,\00,5f,00,4e,00,31,00,30,00,30,00,31,00,00,00
```

```
"WinSock 2.0 Provider
ID"=hex:30,18,5f,8d,73,c2,cf,11,95,c8,00,80,5f,48,a1,92

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock\Setup Migration\Providers\Tcpip]
"WinSock 2.0 Provider
ID"=hex:a0,1a,0f,e7,8b,ab,cf,11,8c,a3,00,80,5f,48,a1,92

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock\Setup Migration\Well Known Guides]
"IsoTp"=hex:b0,cb,e4,89,c1,b9,cf,11,95,c8,00,80,5f,48,a1,92
"McsXns"=hex:b1,cb,e4,89,c1,b9,cf,11,95,c8,00,80,5f,48,a1,92
"AppleTalk"=hex:a0,17,3b,2c,df,c6,cf,11,95,c8,00,80,5f,48,a1,92

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters]
"WinSock_Registry_Version"="2.0"
"Current_NameSpace_Catalog"="NameSpace_Catalog5"
"Current_Protocol_Catalog"="Protocol_Catalog9"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\NameSpace_Catalog5]
"Num_Catalog_Entries"=dword:00000001
"Next_Provider_ID"=dword:000007d0

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\NameSpace_Catalog5\Catalog_Entries]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\NameSpace_Catalog5\Catalog_Entries\000000000001]
"LibraryPath"="%SystemRoot%\System32\rnr20.dll"
"DisplayString"="TCP/IP"
"ProviderId"=hex:40,9d,05,22,9e,7e,cf,11,ae,5a,00,aa,00,a7,11,2b
"SupportedNameSpace"=dword:0000000c
"Enabled"=dword:00000001
"Version"=dword:00000000
"StoresServiceClassInfo"=dword:434e5f4e

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\Protocol_Catalog9]
"Num_Catalog_Entries"=dword:00000007
"Next_Provider_ID"=dword:00000001
"Next_Catalog_Entry_ID"=dword:000003f4

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries\000000000001]
```


Current Revisions
 I/O Board Revision 04
 Assembly Version 1
 Functional Revision Level . D

Memory Allocation (including INSPECT)
 PSP SIZE NAME TRAPPED INTERRUPTS

08C8 007200 COMMAND.COM F7h FDh EAh 2Fh 2Eh 24h 23h
 22h
 0A93 206224 INSPECT.EXE FBh F8h F1h EFh EBh E7h 3Fh
 00h

System Configuration Memory
 00 - 0F: 34 00 39 00 16 00 03 07 07 99 26 82 50 80 00 00
 10 - 1F: 40 00 00 00 03 80 02 00 3C 00 00 00 00 00 00 02
 20 - 2F: 00 00 00 00 7F 20 20 40 00 92 00 00 00 10 02 A4
 30 - 3F: 00 3C 19 80 00 00 XX XX XX XX XX XX XX XX
 XX

BIOS Data Area
 40:0000 : F8 03 F8 02 00 00 00 00 BC 03 00 00 00 00 04 02
 40:0010 : 27 44 00 80 02 00 00 00 00 00 1E 00 1E 00 00 00
 40:0020 : 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 40:0030 : 00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 01
 40:0040 : 25 00 00 00 00 30 00 0E 02 03 50 00 00 10 00 00
 40:0050 : 00 14 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 40:0060 : 0E 0D 00 D4 03 29 30 C2 11 45 77 00 70 A8 10 00
 40:0070 : 00 00 00 12 00 01 00 00 14 14 14 14 01 01 01 01
 40:0080 : 1E 00 3E 00 18 10 00 60 F9 11 0B 01 00 00 00 05
 40:0090 : 17 00 00 00 30 00 10 00 00 00 00 00 00 00 00 00
 40:00A0 : 00 00 00 00 00 00 00 00 42 54 00 C0 00 00 00 00
 40:00B0 : 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 40:00C0 : 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 40:00D0 : 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 40:00E0 : 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 40:00F0 : 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Interrupt Vector Table (including INSPECT)
 00 - 03 : 0AA3:0555 0070:0465 07FF:0016 0070:0465
 04 - 07 : 0070:0465 F000:FF54 F000:93CC F000:9BD0
 08 - 0B : 07FF:001F 07FF:0028 F000:9BD0 F000:9BD0
 0C - 0F : F000:9BD0 F000:9BD0 07FF:009A 0070:0465
 10 - 13 : C000:3342 F000:F84D F000:F841 0070:03EE
 14 - 17 : F000:F71E 0245:0240 0070:042D F000:EFD2
 18 - 1B : F000:C2E8 08C0:002F F000:FE6E 0070:045F
 1C - 1F : F000:FF53 C000:1E2B 0000:0522 C000:6032
 20 - 23 : 00C9:0F48 00C9:0FB2 08C8:0314 08C8:016D
 24 - 27 : 08C8:0178 00C9:0FBC 00C9:0FC6 00C9:0FD0
 28 - 2B : 00C9:106F 0070:0466 00C9:106F 00C9:106F
 2C - 2F : 00C9:106F 00C9:106F 08C8:0162 08C9:01CC
 30 - 33 : C90F:E4EA F000:9B00 00C9:106F 00C9:106F
 34 - 37 : 00C9:106F 00C9:106F 00C9:106F 00C9:106F
 38 - 3B : 00C9:106F 00C9:106F 00C9:106F 00C9:106F
 3C - 3F : 00C9:106F 00C9:106F 00C9:106F 1B23:04F5
 40 - 43 : F000:EC59 0000:0000 F000:F065 C000:5C32
 44 - 47 : F000:9BD0 F000:9BD0 0000:0000 F000:9BD0
 48 - 4B : F000:9BD0 F000:9BD0 F000:9BD0 F000:9BD0
 4C - 4F : F000:9BD0 F000:9BD0 F000:9BD0 0070:04FC
 50 - 53 : F000:9BD0 F000:9BD0 F000:9BD0 F000:9BD0
 54 - 57 : F000:9BD0 F000:9BD0 F000:9BD0 F000:9BD0

58 - 5B : F000:9BD0 F000:9BD0 F000:9BD0 F000:9BD0
 5C - 5F : F000:9BD0 F000:9BD0 F000:9BD0 F000:9BD0
 60 - 63 : 0000:0000 0000:0000 0000:0000 0000:0000
 64 - 67 : 0000:0000 0000:0000 0000:0000 0000:0000
 68 - 6B : F000:9BD0 F000:9BD0 F000:9BD0 F000:9BD0
 6C - 6F : F000:9BD0 C000:3342 F000:9BD0 F000:9BD0
 70 - 73 : 07FF:0035 E800:28DD 07FF:00B2 F000:9BD0
 74 - 77 : 07FF:00E2 F000:9C28 07FF:00FA F000:9BD0
 78 - 7B : 0000:0000 0000:0000 0000:0000 0000:0000
 7C - 7F : 0000:0000 0000:0000 0000:0000 0000:0000
 80 - 83 : 0000:0000 0000:0000 0000:0000 0000:0000
 84 - 87 : 0000:0000 0000:0000 0000:0000 0000:0000
 88 - 8B : 0000:0000 0000:0000 0000:0000 0000:0000
 8C - 8F : 0000:0000 0000:0000 0000:0000 0000:0000
 90 - 93 : 0000:0000 0000:0000 0000:0000 0000:0000
 94 - 97 : 0000:0000 0000:0000 0000:0000 0000:0000
 98 - 9B : 0000:0000 0000:0000 0000:0000 0000:0000
 9C - 9F : 0000:0000 0000:0000 0000:0000 0000:0000
 A0 - A3 : 0000:0000 0000:0000 0000:0000 0000:0000
 A4 - A7 : 0000:0000 0000:0000 0000:0000 0000:0000
 A8 - AB : 0000:0000 0000:0000 0000:0000 0000:0000
 AC - AF : 0000:0000 0000:0000 0000:0000 0000:0000
 B0 - B3 : 0000:0000 0000:0000 0000:0000 0000:0000
 B4 - B7 : 0000:0000 0000:0000 0000:0000 0000:0000
 B8 - BB : 0000:0000 0000:0000 0000:0000 0000:0000
 BC - BF : 0000:0000 0000:0000 0000:0000 0000:0000
 C0 - C3 : 0000:0000 0000:0000 0000:0000 0000:0000
 C4 - C7 : 0000:0000 0000:0000 0000:0000 0000:0000
 C8 - CB : 0000:0000 0000:0000 0000:0000 0000:0000
 CC - CF : 0000:0000 0000:0000 0000:0000 0000:0000
 D0 - D3 : 0000:0000 0000:0000 0000:0000 0000:0000
 D4 - D7 : 0000:0000 0000:0000 0000:0000 0000:0000
 D8 - DB : 0000:0000 0000:0000 0000:0000 0000:0000
 DC - DF : 0000:0000 0000:0000 0000:0000 0000:0000
 E0 - E3 : 0000:0000 0000:0000 0000:0000 0000:0000
 E4 - E7 : 0000:0000 0000:0000 0000:0000 0F10:0CFD
 E8 - EB : 0083:0009 0006:1FB9 0008:1FB7 0000:F886
 EC - EF : 0000:0203 0020:0203 0000:031F 0202:C000
 F0 - F3 : C000:0008 0BE9:0E06 03CE:03DA 0008:5050
 F4 - F7 : 00E8:655F 0203:0000 0000:03C4 0A2E:03C4
 F8 - FB : 3394:0000 FF0E:000F 0000:0000 00F4:EC21
 FC - FF : 0246:0A00 0A00:0000 E0FB:0049 0003:0A1F

PCI Devices Information
 Signature PCI
 Config Mechanism #1 Supported
 Config Mechanism #2 Not Supported
 Spec Cycle for Config #1 Supported
 Spec Cycle for Config #2 Not Supported
 BIOS Interface Version 2.10
 Last PCI Bus Number 1
 Number of PCI Devices 4
 Bus Number 0
 Device Number 11
 Function Number 00h
 Slot Number 0
 Vendor ID 1013h
 Device ID 00B8h
 Revision ID 45h
 Device Type VGA Compatible Controller
 Programming Interface 00h

Expansion ROM Base Address FFFF0000h
 IRQ Line 255
 IRQ Pin Not Used
 Memory Address Base C4000000h
 Memory Address Length 2000000h
 Memory Address Base C6EFF000h
 Memory Address Length 1000h
 Bus Number 1
 Device Number 7
 Function Number 00h
 Slot Number 0
 Vendor ID 0E11h
 Device ID AE43h
 Revision ID 10h
 Device Type Other Network Controller
 Programming Interface 00h
 Expansion ROM Base Address FFFF0000h
 IRQ Line 5
 IRQ Pin INTA#
 IO Address Base 2800h
 IO Address Length 10h
 Memory Address Base C6FFDF0h
 Memory Address Length 10h
 Bus Number 1
 Device Number 9
 Function Number 00h
 Slot Number 0
 Vendor ID 0E11h
 Device ID 000Fh
 Revision ID 14h
 Device Type SCSI Bus Controller
 Programming Interface 00h
 Expansion ROM Base Address 0h
 IRQ Line 9
 IRQ Pin INTA#
 IO Address Base 2000h
 IO Address Length 100h
 Memory Address Base C6FFDF00h
 Memory Address Length 100h
 Memory Address Base C6FFF000h
 Memory Address Length 1000h
 Bus Number 1
 Device Number 9
 Function Number 01h
 Slot Number 0
 Vendor ID 0E11h
 Device ID 000Fh
 Revision ID 14h
 Device Type SCSI Bus Controller
 Programming Interface 00h
 Expansion ROM Base Address 0h
 IRQ Line 10
 IRQ Pin INTB#
 IO Address Base 2400h
 IO Address Length 100h
 Memory Address Base C6FFDE00h
 Memory Address Length 100h
 Memory Address Base C6FFE000h
 Memory Address Length 1000h

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SUT System Configuration

Date 07/09/1999
Time 10:45:40

Product LIGHTNING

Machine ID
From System Board CPQ1608

Processor Pentium III(R) Xeon
at 550 MHz
Slot 8
Secondary Cache 2048K
CPU ID 0673

Processor Pentium III(R) Xeon
at 550 MHz
Slot 7
Secondary Cache 2048K
CPU ID 0673

Processor Pentium III(R) Xeon
at 550 MHz
Slot 6
Secondary Cache 2048K
CPU ID 0673

Processor Pentium III(R) Xeon
at 550 MHz
Slot 5
Secondary Cache 2048K
CPU ID 0673

Processor Pentium III(R) Xeon
at 550 MHz
Slot 4
Secondary Cache 2048K
CPU ID 0673

Processor Pentium III(R) Xeon
at 550 MHz
Slot 3
Secondary Cache 2048K
CPU ID 0673

Processor Pentium III(R) Xeon
at 550 MHz
Slot 2
Secondary Cache 2048K
CPU ID 0673

Processor Pentium III(R) Xeon
at 550 MHz
Slot 1
Secondary Cache 2048K
CPU ID 0673

Processor(s) Mapped Out None

Numeric Coprocessor Integrated 387-
Compatible

Expansion Bus ISA, PCI

System Identification Number 0918CL640020

CPU Mode Real Mode

System ROM
Revision 06/28/1999
Family P42
Flashable Yes
Supports F10 partition Yes

Video Controller ROM
Revision 3.96

Option ROMs
Address Range C0000 - C7FFF
Data Dump (1998/10/08 15:41)

Address Range C8000 - CBFFF
Data Dump (04/22/98
SurefireSmart Array Option ROM/BIOS (C)Copyright
CO...)

Address Range CC000 - CFFFF
Data Dump (04/22/98 ROC
ROC-LCR Option ROM/BIOS (C)Copyright COMPAQ...)

Address Range D0000 - D0FFF
Data Dump (Copyright (C)
1997,1998 Intel Corporation)

Address Range E8000 - EDFFF
Data Dump (CPQSCSI d)

Bootblock ROM 04/19/1999

Standby Recovery Server
Status Disabled
COM Port COM1
Server Configuration Recovery
Timeout Value 1 minutes

Memory Boards Identified:
Expansion Board
Bank 1 (SDRAM) 512 Megabytes
Bank 2 (SDRAM) 512 Megabytes
Bank 3 (SDRAM) 512 Megabytes
Bank 4 (SDRAM) 512 Megabytes
Bank 5 (SDRAM) 512 Megabytes

Bank 6 (SDRAM) 512 Megabytes
Bank 7 (SDRAM) 512 Megabytes
Bank 8 (SDRAM) 512 Megabytes
Total Compaq Memory 4096 Megabytes

Keyboard Enhanced

LPT Ports LPT1 (Address 378)

COM Ports COM1 (Address 3F8)
COM2 (Address 2F8)

Diskette Drive A 1.44 Megabyte (3.5
inch)

Drive Controller 1, Compaq Integrated Smart Array
Controller
IDA Firmware Revision 1.20
Array Accelerator Memory 12284 Kbytes
Accelerator Status Not Configured
Battery count 0
Batteries charged 0
Batteries failed 0

Drive Controller 2, Compaq Smart Array 4200
Controller
IDA Firmware Revision 0.42
Array Accelerator Memory 57344 Kbytes
Reserved for reads 28672 Kbytes
Reserved for writes 28672 Kbytes
Accelerator Status Not Configured
Battery count 3
Batteries charged 3
Batteries failed 0
ProLiant Bus 1, Rev. JB43
ProLiant Bus 2, Rev. JB43
ProLiant Bus 3, Rev. JB43
ProLiant Bus 4, Rev. JB43

Logical Drive 1 28321 Megabyte
Fault Tolerance None
OS Format Multi-Sector

Distribution
Drive geometry (Cyl, Hds, Sec) 6779, 255, 32
Array Accelerator Disabled

Hard Drive 1
SCSI Bus 1
SCSI ID 0
Serial Number
LJD2342900001927221C
Firmware Revision 1 3B00
Model Number COMPAQ BD00911934
Initialized for Monitoring Yes

Hard Drive 2
SCSI Bus 1
SCSI ID 1
Serial Number
LJD2805400002919H42M
Firmware Revision 1 3B00
Model Number COMPAQ BD00911934
Initialized for Monitoring Yes

Hard Drive 3
 SCSI Bus 1
 SCSI ID 2
 Serial Number
 LJB996090000292700W9
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 4
 SCSI Bus 1
 SCSI ID 3
 Serial Number
 LJF710540000193125BP
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 5
 SCSI Bus 1
 SCSI ID 4
 Serial Number
 LJ469015000019101675
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 6
 SCSI Bus 1
 SCSI ID 5
 Serial Number
 LJD203570000292705HG
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 7
 SCSI Bus 1
 SCSI ID 1
 Serial Number
 NJ04160100001844HT6D
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 8
 SCSI Bus 1
 SCSI ID 2
 Serial Number
 LJB7338000029260DG5
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 9
 SCSI Bus 1
 SCSI ID 3
 Serial Number
 LJ45314300002909H1DF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 10
 SCSI Bus 1
 SCSI ID 4
 Serial Number
 LJB982090000192704PG
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 11
 SCSI Bus 1
 SCSI ID 5
 Serial Number
 NJ0402010000184507H9
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 12
 SCSI Bus 1
 SCSI ID 6
 Serial Number
 LJD01775000029260L6L
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 13
 SCSI Bus 1
 SCSI ID 0
 Serial Number
 LJ446566000019091XF3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 14
 SCSI Bus 1
 SCSI ID 1
 Serial Number
 LJ10350200001902H22X
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 15
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ04152900001845HR8T
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 16
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJD099940000192713MR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 17
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJD27201000019271W12
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 18
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ48977500002911J6WH
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 19
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJD33472000019273Q2T
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 20
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ13304800001903HL8R
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 21
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ109753000019030A2Q
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 22
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJD3021900002927H9R8
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ4580830000191005JC
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJB66839000019270925
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ480457000019101LWJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 26
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ491781000019110YRU
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ08557600001853HJNN
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04147500001845J5FX
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 29
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJD17646000019271HG6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 30
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ06053700002853H2CG
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 31
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ09733800001903ONGW
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 32
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJD276760000292703Y4
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 33
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ098301000019012DAF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 34
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ47175400002910JDL
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 35
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ44058000019101FJV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 36
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 NJ04173200001845J3M2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 37
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ4898180000191104AC
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 38
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJG583680000193301LK
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 39
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ11221500001902HZAJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 40
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ46333300001910168W
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 41
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ04173300001845JC7E
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 42
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ46335500002910J9Q0
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 43
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ04146500001845J161
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 44
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04130200001845J3S1
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 45
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJB913560001926J487
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 46
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 NJ04172100001844HNYN
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 47
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ6044690000191611UY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 48
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ0882490000185318TK
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 49
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJD54128000019273UEQ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 50
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ1146300001903027E
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 51
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ458976000019091TRT
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 52
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJD17050000019270RXX
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 53
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 NJ0415360000184509Q2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 54
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ08378800001853137W
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 55
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ04132700001845J186
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 56
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ467745000019100YRX
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Logical Drive 2 15725 Megabyte
 Fault Tolerance None
 OS Format Multi-Sector
 Distribution
 Drive geometry (Cyl, Hds, Sec) 3764, 255, 32
 Array Accelerator Disabled

Hard Drive 1
 SCSI Bus 1
 SCSI ID 0
 Serial Number
 LJD2342900001927221C
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 2

SCSI Bus 1
 SCSI ID 1
 Serial Number
 LJD2805400002919H42M
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 3
 SCSI Bus 1
 SCSI ID 2
 Serial Number
 LJB996090000292700W9
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 4
 SCSI Bus 1
 SCSI ID 3
 Serial Number
 LJF710540000193125BP
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 5
 SCSI Bus 1
 SCSI ID 4
 Serial Number
 LJ469015000019101675
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 6
 SCSI Bus 1
 SCSI ID 5
 Serial Number
 LJD203570000292705HG
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 7
 SCSI Bus 1
 SCSI ID 1
 Serial Number
 NJ04160100001844HT6D
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 8
 SCSI Bus 1
 SCSI ID 2
 Serial Number
 LJB7338000029260DG5
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 9

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SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ45314300002909H1DF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJB982090000192704PG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ0402010000184507H9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
LJD01775000029260L6L
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ446566000019091XF3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ10350200001902H22X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04152900001845HR8T
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16

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SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD099940000192713MR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD27201000019271W12
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ48977500002911J6WH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJD33472000019273Q2T
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ13304800001903HLSR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ109753000019030A2Q
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD3021900002927H9R8
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23

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SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ4580830000191005JC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJB66839000019270925
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ480457000019101LWJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ491781000019110YRU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ08557600001853HJNN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04147500001845J5FX
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJD17646000019271HG6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30

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SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ06053700002853H2CG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ09733800001903ONGW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJD276760000292703Y4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ098301000019012DAF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ47175400002910JDGL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ440580000019101FJV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04173200001845J3M2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37

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SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ4898180000191104AG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJG583680000193301LK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ11221500001902HZAJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ46333300001910168W
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04173300001845JC7E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ46335500002910J9Q0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04146500001845J161
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44

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SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04130200001845J3S1
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJB9135600001926J487
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04172100001844HNYN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ6044690000191611UY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ0882490000185318TK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD54128000019273UEQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ11146300001903027E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51

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SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ458976000019091TRT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJD1705000019270RXR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ0415360000184509Q2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ08378800001853137W
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04132700001845J186
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ467745000019100YRX
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 3 . . . . . 419423 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) -14544, 255, 63
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0

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Serial Number . . . . .
LJD2342900001927221C
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJD2805400002919H42M
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJB996090000292700W9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJF710540000193125BP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ469015000019101675
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJD203570000292705HG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04160100001844HT6D
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2

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Serial Number . . . . .
LJB73380000029260DG5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ45314300002909H1DF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJB982090000192704PG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ0402010000184507H9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
LJD01775000029260L6L
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ446566000019091XF3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ10350200001902H22X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0

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Serial Number NJ0415290001845HR8T
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 16
 SCSI Bus 2
 SCSI ID 1
 Serial Number LJD099940000192713MR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 17
 SCSI Bus 2
 SCSI ID 2
 Serial Number LJD27201000019271W12
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 18
 SCSI Bus 2
 SCSI ID 3
 Serial Number LJ48977500002911J6WH
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 19
 SCSI Bus 2
 SCSI ID 4
 Serial Number LJD33472000019273Q2T
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 20
 SCSI Bus 2
 SCSI ID 5
 Serial Number LJ13304800001903HL8R
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 21
 SCSI Bus 2
 SCSI ID 1
 Serial Number LJ109753000019030A2Q
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 22
 SCSI Bus 2
 SCSI ID 2

Serial Number LJD3021900002927H9R8
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number LJ4580830000191005JC
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number LJB66839000019270925
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number LJ480457000019101LWJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 26
 SCSI Bus 2
 SCSI ID 6
 Serial Number LJ491781000019110YRU
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number LJ08557600001853HJNN
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number NJ04147500001845J5FX
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 29
 SCSI Bus 2
 SCSI ID 0

Serial Number LJD17646000019271HG6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 30
 SCSI Bus 2
 SCSI ID 1
 Serial Number LJ06053700002853H2CG
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 31
 SCSI Bus 2
 SCSI ID 2
 Serial Number LJ097338000019030NGW
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 32
 SCSI Bus 2
 SCSI ID 3
 Serial Number LJD276760000292703Y4
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 33
 SCSI Bus 2
 SCSI ID 4
 Serial Number LJ098301000019012DAF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 34
 SCSI Bus 2
 SCSI ID 5
 Serial Number LJ47175400002910JDGL
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 35
 SCSI Bus 2
 SCSI ID 1
 Serial Number LJ44058000019101FJV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 36
 SCSI Bus 2
 SCSI ID 2

```

Serial Number . . . . .
NJ04173200001845J3M2
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 37
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 3
  Serial Number . . . . .
LJ4898180000191104AC
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 38
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 4
  Serial Number . . . . .
LJG583680000193301LK
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 39
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 5
  Serial Number . . . . .
LJ11221500001902HZAJ
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 40
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 6
  Serial Number . . . . .
LJ46333300001910168W
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 41
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 0
  Serial Number . . . . .
NJ04173300001845JC7E
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 42
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 1
  Serial Number . . . . .
LJ46335500002910J9Q0
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 43
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 0

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Serial Number . . . . .
NJ04146500001845J161
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 44
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 1
  Serial Number . . . . .
NJ04130200001845J3S1
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 45
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 2
  Serial Number . . . . .
LJB9135600001926J487
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 46
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 3
  Serial Number . . . . .
NJ04172100001844HNYN
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 47
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 4
  Serial Number . . . . .
LJ6044690000191611UY
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 48
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 5
  Serial Number . . . . .
LJ0882490000185318TK
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 49
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 1
  Serial Number . . . . .
LJD54128000019273UEQ
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 50
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 2

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```

Serial Number . . . . .
LJ11146300001903027E
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 51
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 3
  Serial Number . . . . .
LJ458976000019091TRT
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 52
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 4
  Serial Number . . . . .
LJDI7050000019270RXR
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 53
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 5
  Serial Number . . . . .
NJ0415360000184509Q2
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 54
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 6
  Serial Number . . . . .
LJ08378800001853137W
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 55
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 0
  Serial Number . . . . .
NJ04132700001845J186
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 56
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 1
  Serial Number . . . . .
LJ467745000019100YRX
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Drive Controller 3, Compaq Smart Array 4200
Controller
  IDA Firmware Revision . . . . 0.42

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```

Array Accelerator Memory . . . 57344 Kbytes
  Reserved for reads . . . . . 28672 Kbytes
  Reserved for writes . . . . . 28672 Kbytes
Accelerator Status . . . . . Not Configured
Battery count . . . . . 3
Batteries charged . . . . . 3
Batteries failed . . . . . 0
ProLiant . . . . . Bus 1, Rev. JB43
ProLiant . . . . . Bus 2, Rev. JB43
ProLiant . . . . . Bus 3, Rev. JB43
ProLiant . . . . . Bus 4, Rev. JB43

Logical Drive 1 . . . . . 28334 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 6782, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ468042000019110S3D
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ490027000019110S00
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04136100001845J3GV
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ461063000019100DR4
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ10433800001902HWX2
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

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Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ10348900001902HZ3W
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ481507000019110YCU
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJ462968000019100K26
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJB9722200002927004Z
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJB74752000029260ASA
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJD21793000019271RC3
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
LJG454550000193304SD
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

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Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04167100001845HRBL
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04037600001845J16M
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJB0336500002927H1MQ
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041736000018450FX5
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD26473000019272969
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJD04371000029270071
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJB2428600001926J008
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

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Hard Drive 20
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJD28572000019201RQ0
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 21
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04165900001845J1DZ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 22
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ466634000019091MLF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 NJ040024000018450BX3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ03214400001844J1VR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJB99949000019262PXJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 26
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ115998000019030YKV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJB4102400001927259X
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ088889000018530WBU
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 29
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJB9469000019262KPF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 30
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ03999700001837HVK6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 31
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJD182880000192719LF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 32
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJD19384000019271SZZ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 33
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJD181180000292704S2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 34
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ48289500001910H7BC
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 35
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJG7009800002933H2E0
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 36
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJD2979100001921HCR2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 37
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 NJ04133300001845HRAV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 38
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJD259740000192727JJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 39
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJD13323000019270PLL
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 40
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJG73188000019183JWS
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 41
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ4610640000191019ZZ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 42
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJB995530000192709FA
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 43
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJB751390000292609UQ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 44
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJD29870000029260K4X
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 45
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJD060900000292700AR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 46
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ03851200002902H7NF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 47
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ46867100001910106L
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 48
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ109503000019030RM3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 49
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJD149000000192713QY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 50
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJB63186000019232HDK
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 51
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ106991000018531GK3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 52
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ04151300001845HR4H
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 53
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ095895000019011HT0
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 54
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJD15346000029270BQR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 55
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ090108000019010GLY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 56
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJC0956700001931H7MY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Logical Drive 2 15725 Megabyte
 Fault Tolerance None
 OS Format Multi-Sector
 Distribution
 Drive geometry (Cyl, Hds, Sec) 3764, 255, 32
 Array Accelerator Disabled

Hard Drive 1
 SCSI Bus 1
 SCSI ID 0
 Serial Number
 LJ468042000019110S3D
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 2
 SCSI Bus 1
 SCSI ID 1
 Serial Number
 LJ490027000019110S00
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 3
 SCSI Bus 1
 SCSI ID 2
 Serial Number
 NJ04136100001845J3GV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 4
 SCSI Bus 1
 SCSI ID 3
 Serial Number
 LJ461063000019100DR4
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 5

SCSI Bus 1
 SCSI ID 4
 Serial Number
 LJ10433800001902HWX2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 6
 SCSI Bus 1
 SCSI ID 5
 Serial Number
 LJ10348900001902HZ3W
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 7
 SCSI Bus 1
 SCSI ID 1
 Serial Number
 LJ481507000019110YCU
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 8
 SCSI Bus 1
 SCSI ID 2
 Serial Number
 LJ462968000019100K26
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 9
 SCSI Bus 1
 SCSI ID 3
 Serial Number
 LJB9722200002927004Z
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 10
 SCSI Bus 1
 SCSI ID 4
 Serial Number
 LJB74752000029260ASA
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 11
 SCSI Bus 1
 SCSI ID 5
 Serial Number
 LJD21793000019271RC3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 12

SCSI Bus 1
 SCSI ID 6
 Serial Number
 LJG454550000193304SD
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 13
 SCSI Bus 1
 SCSI ID 0
 Serial Number
 NJ04167100001845HRBL
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 14
 SCSI Bus 1
 SCSI ID 1
 Serial Number
 NJ04037600001845J16M
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 15
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJB0336500002927H1MQ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 16
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ041736000018450FX5
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 17
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJD26473000019272969
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 18
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJD04371000029270071
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 19

SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJB2428600001926J008
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 20
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJD28572000019201RQ0
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 21
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04165900001845J1DZ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 22
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ466634000019091MLF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 NJ040024000018450BX3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ03214400001844J1VR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJB99949000019262PJX
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 26

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SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ115998000019030YKV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJB4102400001927259X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ088889000018530WBU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJB94690000019262KPF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03999700001837HVK6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD182880000192719LF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJD19384000019271SZZ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33

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SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJD181180000292704S2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ48289500001910H7BC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJG7009800002933H2E0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD2979100001921HCR2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04133300001845HRAV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJD259740000192727JJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJD13323000019270PLL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40

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SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJG73188000019183JWS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ4610640000191019ZZ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJB995530000192709FA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJB751390000292609UQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD29870000029260K4X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD060900000292700AR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ03851200002902H7NF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47

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SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ46867100001910106L
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ109503000019030RM3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD149000000192713QY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJB63186000019232HDK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ106991000018531GK3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04151300001845HR4H
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ095895000019011HT0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54

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SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJD15346000029270BQR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ090108000019010GLY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJC0956700001931H7MY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 3 . . . . . 465492 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) -8943, 255, 63
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ468042000019110S3D
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ490027000019110S00
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04136100001845J3GV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3

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Serial Number . . . . .
LJ461063000019100DR4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ10433800001902HWX2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ10348900001902HZ3W
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ481507000019110YCU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJ462968000019100K26
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJB9722200002927004Z
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJB74752000029260ASA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5

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Serial Number . . . . .
LJD2179300019271RC3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
LJG45455000193304SD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04167100001845HRBL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04037600001845J16M
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJB0336500002927H1MQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041736000018450FX5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD26473000019272969
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3

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Serial Number . . . . .
LJDO4371000029270071
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJB2428600001926J008
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJD28572000019201RQ0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04165900001845J1DZ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ466634000019091MLF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ040024000018450BX3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03214400001844J1VR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5

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Serial Number . . . . .
LJB99949000019262PJX
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ115998000019030YKV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJB4102400001927259X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ088889000018530WBU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJB94690000019262KPF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03999700001837HVK6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD182880000192719LF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3

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Serial Number . . . . .
LJD19384000019271SZZ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJD181180000292704S2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ48289500001910H7BC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJG7009800002933H2E0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD2979100001921HCR2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04133300001845HRAV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJD259740000192727JJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5

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Serial Number . . . . .
LJD13323000019270PLL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJG73188000019183JWS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ4610640000191019ZZ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJB995530000192709FA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJB751390000292609UQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD29870000029260K4X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD060900000292700AR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3

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Serial Number . . . . .
LJ03851200002902H7NF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ46867100001910106L
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ109503000019030RM3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD149000000192713QY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJB63186000019232HDK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ106991000018531GK3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04151300001845HR4H
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5

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Serial Number . . . . .
LJ095895000019011HT0
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 54
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 6
  Serial Number . . . . .
LJD15346000029270BQR
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 55
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 0
  Serial Number . . . . .
LJ090108000019010GLY
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 56
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 1
  Serial Number . . . . .
LJC0956700001931H7MY
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Drive Controller 4, Compaq Smart Array 4200
Controller
  IDA Firmware Revision . . . . 0.42
  Array Accelerator Memory . . . 57344 Kbytes
  Reserved for reads . . . . . 28672 Kbytes
  Reserved for writes . . . . . 28672 Kbytes
  Accelerator Status . . . . . Not Configured
  Battery count . . . . . 3
  Batteries charged . . . . . 3
  Batteries failed . . . . . 0
  ProLiant . . . . . Bus 1, Rev. JB43
  ProLiant . . . . . Bus 2, Rev. JB43
  ProLiant . . . . . Bus 3, Rev. JB43
  ProLiant . . . . . Bus 4, Rev. JB43

  Logical Drive 1 . . . . . 28346 Megabyte
  Fault Tolerance . . . . . None
  OS Format . . . . . Multi-Sector
Distribution
  Drive geometry (Cyl, Hds, Sec) 6785, 255, 32
  Array Accelerator . . . . . Disabled

  Hard Drive 1
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 0
  Serial Number . . . . .
LJ484571000019110RB3
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

```

```

Hard Drive 2
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 1
  Serial Number . . . . .
LJ437135000019110YC2
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 3
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 2
  Serial Number . . . . .
LJ09363600002902H2PF
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 4
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 3
  Serial Number . . . . .
NJ04014500001844HJ1D
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 5
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 4
  Serial Number . . . . .
LJ04514000001903HT5K
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 6
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 5
  Serial Number . . . . .
NJ04171900001845HQD2
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 7
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 1
  Serial Number . . . . .
NJ040159000018450CN6
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 8
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 2
  Serial Number . . . . .
NJ03974000001845J4Y7
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

```

```

Hard Drive 9
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 3
  Serial Number . . . . .
NJ04013200001845HQBE
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 10
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 4
  Serial Number . . . . .
NJ03901100001837HHG1
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 11
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 5
  Serial Number . . . . .
LJ472244000019101QJ9
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 12
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 6
  Serial Number . . . . .
NJ03922700001845072J
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 13
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 0
  Serial Number . . . . .
LJD05902000029270C5W
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 14
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 1
  Serial Number . . . . .
LJ109872000019021H3Q
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

  Hard Drive 15
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 0
  Serial Number . . . . .
LJ44643000002910J3YY
  Firmware Revision 1 . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

```

Hard Drive 16
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ4800490000191102RF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 17
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 NJ04026800001835H8KU
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 18
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ449709000019100DSL
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 19
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ463548000019100P36
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 20
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 NJ04140100001845J516
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 21
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ0120910000184302LX
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 22
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJD08246000019270VDB
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 NJ0399880000184508CU
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ0413260000H832057C
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 NJ041512000018450G80
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 26
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 NJ04131300001845J3Q5
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ10479100001901J432
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes
 Reference time 1509997801
 Sectors read *1502310218
 Hard read errors 0
 Read errors retry 0
 ECC read errors *0
 Sectors written *3274037320
 Hard write errors 0
 Write errors retry 0
 Seek count *3976409632
 Seek errors *0
 Spin cycles 16777216
 Spin up time 46080
 Seek time track 4%
 Seek time third 1%
 Seek time full 0%
 Reallocated sectors 234881024
 Recovers read failed 0
 Bus faults 0

Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04162700001845HRA4
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 29
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJG1495100002932H4N1
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 30
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ457476000019100H6Q
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 31
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJF8265800001931J973
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 32
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ48943600001911048X
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 33
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJF9369900001931JEL0
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 34
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJF96360000019310RGO
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 35
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ472654000019070WJJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 36
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 NJ04139700001845HEJV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 37
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 NJ04126500001845J3H8
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 38
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJG53637000019321ZP3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 39
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 NJ04170200001845HR90
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 40
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJCI1715000019321QSE
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 41
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJCI202600001931H9G2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 42
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ456931000019100VLH
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 43
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ0414300000184207CF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 44
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJG42338000019321AWR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 45
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 NJ04139200001845J512
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 46
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJB38194000029270C12
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 47
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJG008410000290951JD
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 48
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJG8553000002933HF49
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 49
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ46908500001910125C
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 50
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJD2194400002927051B
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 51
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 NJ04122900001845HYL3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 52
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJG43745000019321VCF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 53
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJF5518800001931HXCM
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 54
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 NJ04142400001845HREM
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 55
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJG578000000193216WU
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

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Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJF6912600019311BAS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 2 . . . . . 15725 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 3764, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ484571000019110RB3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ437135000019110YC2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJ09363600002902H2PF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04014500001844HJJD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ04514000001903HT5K
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6

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SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04171900001845HQD2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ040159000018450CN6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ03974000001845J4Y7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04013200001845HQBE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03901100001837HHG1
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ472244000019101QJ9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NJ03922700001845072J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13

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SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJD05902000029270C5W
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ109872000019021H3Q
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ44643000002910J3YY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ4800490000191102RF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04026800001835H8KU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ449709000019100DSL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ463548000019100P36
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20

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SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04140100001845J516
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ0120910000184302LX
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD08246000019270VDB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ0399880000184508CU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0413260000H832057C
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ041512000018450G80
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ04131300001845J3Q5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27

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```

SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ10479100001901J432
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes
Reference time . . . . . 1509997802
Sectors read . . . . . *1502310218
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . *0
Sectors written . . . . . *3274037320
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . *3976409808
Seek errors . . . . . *0
Spin cycles . . . . . 16777216
Spin up time . . . . . 46080
Seek time track . . . . . 4%
Seek time third . . . . . 1%
Seek time full . . . . . 0%
Reallocated sectors . . . . 234881024
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04162700001845HRA4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJG1495100002932H4N1
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ457476000019100H6Q
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJF8265800001931J973
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32

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SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ48943600001911048X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJF9369900001931JEL0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJF96360000019310RGO
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ472654000019070WJJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04139700001845HEJV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04126500001845J3H8
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJG53637000019321ZP3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39

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SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04170200001845HR90
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJC17150000019321QSE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJC12026000001931H9G2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ4569310000019100VLH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ0414300000184207CF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJG423380000019321AWR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04139200001845J512
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46

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SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJB381940000029270C12
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJG00841000002909S1JD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJG85530000002933HF49
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ469085000001910125C
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD21944000002927051B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ041229000001845HYL3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJG437450000019321VCF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53

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SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJF55188000001931HXCM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ041424000001845HRBM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJG5780000000193216WU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJF691260000019311BAS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 3 . . . . . 314566 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) -27292, 255, 63
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ4845710000019110RB3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ4371350000019110YC2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2

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Serial Number . . . . .
LJ09363600002902H2PF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04014500001844HJJD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ04514000001903HT5K
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04171900001845HQD2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04015900001845OCN6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ03974000001845J4Y7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04013200001845HQBE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4

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Serial Number . . . . .
NJ03901100001837HHG1
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ472244000019101QJ9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NJ03922700001845072J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJD05902000029270C5W
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ109872000019021H3Q
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ44643000002910J3YY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ4800490000191102RF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2

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Serial Number . . . . .
NJ04026800001835H8KU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ449709000019100DSL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ463548000019100P36
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04140100001845J516
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ0120910000184302LX
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD08246000019270VDB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ0399880000184508CU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4

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Serial Number . . . . .
NJ0413260000832057C
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ041512000018450G80
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ04131300001845J3Q5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ10479100001901J432
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes
Reference time . . . . . 1509997804
Sectors read . . . . . *1502310218
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . *0
Sectors written . . . . . *3274037320
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . *3976409984
Seek errors . . . . . *0
Spin cycles . . . . . 16777216
Spin up time . . . . . 46080
Seek time track . . . . . 4%
Seek time third . . . . . 1%
Seek time full . . . . . 0%
Reallocated sectors . . . . 234881024
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04162700001845HRA4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0

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Serial Number . . . . .
LJG1495100002932H4N1
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ457476000019100H6Q
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJF8265800001931J973
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ48943600001911048X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJF9369900001931JEL0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJF9636000019310RG0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ472654000019070WJJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2

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Serial Number . . . . .
NJ04139700001845HEJV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04126500001845J3H8
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJG53637000019321ZP3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04170200001845HR90
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJC1715000019321QSE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJC1202600001931H9G2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ456931000019100VLH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0

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Serial Number . . . . .
NJ041430000184207CF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJG4233800019321AWR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04139200001845J512
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJB38194000029270C12
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJG0084100002909S1JD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJG8553000002933HF49
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ46908500001910125C
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2

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Serial Number . . . . .
LJD2194400002927051B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04122900001845HYL3
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJG43745000019321VCF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJF5518800001931HXCM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ04142400001845HRBM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJG578000000193216WU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJF69126000019311BAS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Drive Controller 5, Compaq Smart Array 4200
Controller
IDA Firmware Revision . . . . 0.42

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Array Accelerator Memory . . . 57344 Kbytes
Reserved for reads . . . . . 28672 Kbytes
Reserved for writes . . . . . 28672 Kbytes
Accelerator Status . . . . . Not Configured
Battery count . . . . . 3
Batteries charged . . . . . 3
Batteries failed . . . . . 0
ProLiant . . . . . Bus 1, Rev. JB43
ProLiant . . . . . Bus 2, Rev. JB43
ProLiant . . . . . Bus 3, Rev. JB43
ProLiant . . . . . Bus 4, Rev. JB43

Logical Drive 1 . . . . . 28354 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 6787, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
NL0019170000184112SK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59871
Sectors read . . . . . 299615974
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 187393628
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 242472
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 53
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 132
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NL00196300001837HG1F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NL0013760000H2802U8
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

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Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
NL002600000H82701RF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59872
Sectors read . . . . . 300530384
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 188622476
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 246224
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 53
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 149
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
NL00196700001841HSV2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NL00180000001841HGUT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59872
Sectors read . . . . . 293995632
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 186888846
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 256744
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 0
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 77
Recovers read failed . . . . 0
Bus faults . . . . . 0

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```

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NL0012780000H83306KD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59872
Sectors read . . . . . 297243776
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 187542738
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 274900
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 55
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 564
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NL00028700001837HEV0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59872
Sectors read . . . . . 308138240
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 191729386
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 276848
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 0
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 387
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
NL00137300001835H4Y5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

```

```

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
NL001902000018330PBH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59872
Sectors read . . . . . 301764896
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 188409450
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 249216
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 53
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 47
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NL00180500001841HMFA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NL00188400001837HMAS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59872
Sectors read . . . . . 301924885
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 189202657
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 242880
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 54
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 121
Recovers read failed . . . . 0
Bus faults . . . . . 0

```

Hard Drive 13
 SCSI Bus 1
 SCSI ID 0
 Serial Number
 NL00162800001842K16P
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00411933
 Initialized for Monitoring . Yes

Hard Drive 14
 SCSI Bus 1
 SCSI ID 1
 Serial Number
 NL0016150000184112UW
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00411933
 Initialized for Monitoring . Yes

Hard Drive 15
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ4676420000191012NR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 16
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ47267500001910167L
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 17
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ4677320000191016ZS
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 18
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJF98797000019182F2E
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 19
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJB979820000192704WJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 20
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ11983600001903H31X
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 21
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ615078000019160BCC
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 22
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ11122800001902HYXH
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 NJ04158800001845HSU7
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ44284400002910J83X
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ489691000019082965
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 26
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJC11783000029310H8U
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJG4865200002932H0LN
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJG54795000019321LBX
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 29
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ04174200001845JC79
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 30
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ460988000019091YDR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 31
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ18856300001910168M
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 32
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJF76495000019311JGA
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 33
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJA0064700002923H52L
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 34
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJG04937000029310KL8
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 35
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ460093000019100CGF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 36
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ460130000019100MM9
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 37
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJG8124200001933HLCR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 38
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJF7987900001931JF7D
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 39
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJF6769000019310Y48
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 40
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ443233000019100B5N
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 41
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJB8084400001926HSLC
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 42
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ826053000019211BTV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 43
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ041696000018450DZG
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 44
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ10719900001902HZKS
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 45
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ125254000019031B68
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 46
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ442981000019091YGM
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 47
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJF8820800002931HBW1
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 48
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 NJ04145200001845J51U
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 49
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ46189300002909R4JM
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 50
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ457271000019100BMB
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 51
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ4596240000190925KJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 52
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJC1908800001933HTB2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 53
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ188463000019100Y5Z
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 54
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ48969600002911H473
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

```

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ0415420001845HRB2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ10448700001902H4W2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 2 . . . . . 15725 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 3764, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
NL0019170000184112SK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59873
Sectors read . . . . . 299615974
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 187393628
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 242648
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 53
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 132
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NL00196300001837HGLF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 3

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SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NL0013760000H82802U8
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
NL0026000000H82701RF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59873
Sectors read . . . . . 300530384
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 188622476
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 246400
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 53
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 149
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
NL00196700001841HSV2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NL00180000001841HGUT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59873
Sectors read . . . . . 293995632
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 186888846
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 256920
Seek errors . . . . . 0
Spin cycles . . . . . 0

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Spin up time . . . . . 0
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 77
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NL0012780000H83306KD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59873
Sectors read . . . . . 297243776
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 187542738
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 275076
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 55
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 564
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NL00028700001837HEV0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59873
Sectors read . . . . . 308138240
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 191729386
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 277024
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 0
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 387
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 9

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SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
NL00137300001835H4V5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
NL001902000018330PBH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59873
Sectors read . . . . . 301764896
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 188409450
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 249392
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 53
Seek time track . . . . . 0%
Seek time third . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 47
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NL00180500001841HMFA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NL00188400001837HMAS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes
Reference time . . . . . 59873
Sectors read . . . . . 301924885
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 189202657
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 243056
Seek errors . . . . . 0
Spin cycles . . . . . 0

```

```

Spin up time . . . . . 54
Seek time track . . . . . 0%
Seek time thrd . . . . . 0%
Seek time full . . . . . 0%
Reallocated sectors . . . . 121
Recovers read failed . . . . 0
Bus faults . . . . . 0

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
NL00162800001842K16P
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NL0016150000184112UW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00411933
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ4676420000191012NR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47267500001910167L
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ4677320000191016ZS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJF98797000019182F2E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19

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SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJB979820000192704WJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ11983600001903H31X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ615078000019160BCC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ11122800001902HYXH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04158800001845HSU7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ44284400002910J83X
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ489691000019082965
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26

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SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJCL1783000029310H8U
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJG4865200002932H0LN
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJG54795000019321LBX
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 29
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ04174200001845JC79
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 30
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ460988000019091YDR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 31
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ18856300001910168M
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 32
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJF76495000019311JGA
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 33

SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJA0064700002923H52L
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 34
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJG04937000029310KL8
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 35
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ460093000019100CGF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 36
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ460130000019100MM9
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 37
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJG8124200001933HLCR
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 38
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJF7987900001931JF7D
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 39
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJF6769000019310Y48
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 40

SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ443233000019100B5N
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 41
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJB8084400001926HSLC
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 42
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ826053000019211BTV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 43
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ041696000018450DZG
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 44
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ10719900001902HZKS
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 45
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ125254000019031B68
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 46
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ442981000019091YGM
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

 Hard Drive 47

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SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJF882080002931HBW1
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04145200001845J51U
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ46189300002909R4JM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ457271000019100BMB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ4596240000190925KJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJC1908800001933HTB2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ188463000019100Y5Z
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54

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SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ48969600002911H473
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04154200001845HRB2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ10448700001902H4W2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Drive Controller 6, Compaq Smart Array 4200
Controller
IDA Firmware Revision . . . . 0.42
Array Accelerator Memory . . . 57344 Kbytes
Reserved for reads . . . . . 28672 Kbytes
Reserved for writes . . . . . 28672 Kbytes
Accelerator Status . . . . . Not Configured
Battery count . . . . . 3
Batteries charged . . . . . 3
Batteries failed . . . . . 0
ProLiant . . . . . Bus 1, Rev. JB43
ProLiant . . . . . Bus 2, Rev. JB43
ProLiant . . . . . Bus 3, Rev. JB43
ProLiant . . . . . Bus 4, Rev. JB43

Logical Drive 1 . . . . . 28367 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 6790, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJD246020000192720S7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJB86674000029260493
Firmware Revision 1 . . . . 3B00

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Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJB972750000192708PR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJD227490000292703NS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJG751500002933H03B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04152300001845HRBN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ120936000019031622
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJB401510000292703V9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJB8841600001926J2XE
Firmware Revision 1 . . . . 3B00

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Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 10
 SCSI Bus 1
 SCSI ID 4
 Serial Number
 LJB7429900002926036N
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 11
 SCSI Bus 1
 SCSI ID 5
 Serial Number
 LJ10222700001901HPJP
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 12
 SCSI Bus 1
 SCSI ID 6
 Serial Number
 LJ1074950000190217FG
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 13
 SCSI Bus 1
 SCSI ID 0
 Serial Number
 LJG39017000019321VLV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 14
 SCSI Bus 1
 SCSI ID 1
 Serial Number
 NJ04174300001845JFEF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 15
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ03987500001845HRB7
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 16
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ10307700002902H2SN
 Firmware Revision 1 3B00

Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 17
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 NJ04169700001845HR7R
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 18
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJD22155000019270WEK
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 19
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ10832500002902H60D
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 20
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ488327000019110XD1
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 21
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJB8374800002926036B
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 22
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ594924000019160WSL
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ0915480000190317AT
 Firmware Revision 1 3B00

Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ04132100001842K5Q3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJB9007200001926J38H
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 26
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ46211200002910J9XY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ11832200001902J1W2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ1234580000190314J6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 29
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ109119000019021EKE
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 30
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ45928500002910J1T6
 Firmware Revision 1 3B00

Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 31
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ08510200002853H04S
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 32
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ07988200001853H9BP
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 33
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ04166700001845HEL6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 34
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ46447100002910J5OZ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 35
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ10606300001902HBHO
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 36
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ10294900002902H2NQ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 37
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJB55630000292604UQ
 Firmware Revision 1 3B00

Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 38
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ471663000019100JHA
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 39
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJB5308000019270HMD
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 40
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ10837000001902HZ49
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 41
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ04179900001841HRNJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 42
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04014400001845HR94
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 43
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ08594500001853HJ5E
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 44
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04024100001835H8NT
 Firmware Revision 1 3B00

Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 45
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ096355000019030240
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 46
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJD264640000292702UY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 47
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ04025100001835H46A
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 48
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ124702000019030XQ5
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 49
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ10528300002902H1WC
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 50
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 NJ039924000018330KHS
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 51
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ050936000019021JX9
 Firmware Revision 1 3B00

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Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ10862800001901193V
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJB39318000019272EFL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ041388000018451JCM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJD25674000019272CNY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03997400001845HRBJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 2 . . . . . 15725 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 3764, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJD246020000192720S7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

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Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJB86674000029260493
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJB972750000192708PR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJD227490000292703NS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJG7515000002933H03B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04152300001845HRBN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ120936000019031622
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJB401510000292703V9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

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Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJB8841600001926J2XE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJB7429900002926036N
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ10222700001901HPJP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
LJ1074950000190217FG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJG39017000019321VLV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04174300001845JFEF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03987500001845HRB7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

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Hard Drive 16
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ10307700002902H2SN
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 17
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 NJ04169700001845HR7R
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 18
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJD22155000019270WEK
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 19
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ10832500002902H60D
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 20
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ488327000019110XD1
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 21
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJB8374800002926036B
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 22
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ594924000019160WSL
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ0915480000190317AT
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ04132100001842K5Q3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJB9007200001926J38H
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 26
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ46211200002910J9XY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ11832200001902J1W2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ1234580000190314J6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 29
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ109119000019021EKE
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 30
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ45928500002910J1T6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 31
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ08510200002853H04S
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 32
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ07988200001853H9BF
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 33
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ04166700001845HEL6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 34
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ46447100002910J50Z
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 35
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ10606300001902HBH0
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 36
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ10294900002902H2NQ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 37
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJJB55630000292604UQ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 38
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ471663000019100JHA
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 39
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJJB5308000019270HMD
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 40
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ10837000001902HZ49
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 41
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ04179900001841HRNJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 42
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04014400001845HR94
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 43
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ08594500001853HJ5E
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 44
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04024100001835H8NT
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 45
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ096355000019030240
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 46
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJD264640000292702UY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 47
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ04025100001835H46A
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 48
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ124702000019030XQ5
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 49
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ10528300002902H1WC
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 50
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 NJ039924000018330KHS
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 51
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ050936000019021JX9
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 52
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ10862800001901193V
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 53
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJB39318000019272EFL
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 54
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 NJ04138800001845J1CM
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 55
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJD25674000019272CNY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 56
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ03997400001845HRBJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Logical Drive 3 465460 Megabyte
 Fault Tolerance None
 OS Format Multi-Sector
 Distribution
 Drive geometry (Cyl, Hds, Sec) -8947, 255, 63
 Array Accelerator Disabled

Hard Drive 1

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SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJD246020000192720S7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJB86674000029260493
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJB972750000192708PR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJD227490000292703NS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJG7515000002933H03B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04152300001845HRBN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ120936000019031622
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8

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SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJB401510000292703V9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJB8841600001926J2XE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJB7429900002926036N
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ10222700001901HPJP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
LJ1074950000190217FG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJG39017000019321V1V
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04174300001845JFFE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15

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SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03987500001845HRB7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ10307700002902H2SN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04169700001845HR7R
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJD22155000019270WEK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ10832500002902H60D
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ488327000019110XD1
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJB8374800002926036B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22

```

SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ594924000019160WSL
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ0915480000190317AT
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ04132100001842K5Q3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJB9007200001926J3BH
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 26
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ46211200002910J9XY
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ11832200001902J1W2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ1234580000190314J6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 29

SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ109119000019021EKE
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 30
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ45928500002910J1T6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 31
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ08510200002853H04S
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 32
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ07988200001853H9BP
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 33
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 NJ04166700001845HEL6
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 34
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ46447100002910J50Z
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 35
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ10606300001902HBH0
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 36

SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ10294900002902H2NQ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 37
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJB556300000292604UQ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 38
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ471663000019100JHA
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 39
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJB53080000019270HMD
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 40
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJ10837000001902HZ49
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 41
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 NJ04179900001841HRNJ
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 42
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04014400001845HR94
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 43

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SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ08594500001853HJ5E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04024100001835H8NT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ096355000019030240
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJD264640000292702UY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04025100001835H46A
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ124702000019030XQ5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ10528300002902H1WC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50

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SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ039924000018330KHS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ050936000019021JX9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ10862800001901193V
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJB39318000019272EFL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ04138800001845J1CM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJD25674000019272CNY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03997400001845HRBJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

```

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Drive Controller 7, Compaq Smart Array 4200
Controller
IDA Firmware Revision . . . . 0.42
Array Accelerator Memory . . . 57344 Kbytes
Reserved for reads . . . . . 28672 Kbytes
Reserved for writes . . . . . 28672 Kbytes
Accelerator Status . . . . . Not Configured
Battery count . . . . . 3
Batteries charged . . . . . 3
Batteries failed . . . . . 0
ProLiant . . . . . Bus 1, Rev. JB43
ProLiant . . . . . Bus 2, Rev. JB43
ProLiant . . . . . Bus 3, Rev. JB43
ProLiant . . . . . Bus 4, Rev. JB43

Logical Drive 1 . . . . . 28380 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 6793, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ0654140000190311V7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ038964000018450DX5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJD2552800001920H3XW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ47054800002910J9K0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJD176810000192728XT

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ041413000018450DYP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04125800001845J1C4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04169000001845HSRR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ489669000019083QR9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0416750000184507MD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04151400001845HSVK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NJ039946000018450COC

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04020200001844HT5Z
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ105562000019030CGC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ460935000019100FFX
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47861500002911J60W
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04021800001835HP3E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ463426000019100USQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0399890000184508DP

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04167200001845HSKV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ4507990000191016G6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ04790100002927H0AM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ03837300001844J3RF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ041632000018450FYT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04169300001845JC7G
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ263110000292702UJ

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Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03993600001845HR8M
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47005400001910174Q
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03875400001845HRA0
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ461180000019100KPB
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ0402390000184507EG
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04147900001845HR60
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04027100001835HLB6

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Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ475268000019110X94
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04161400001845HRAC
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04114700001845HQDH
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ0384930000H8330679
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ102236000019011TCS
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ0884130000190104RA
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6

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Serial Number . . . . .
NJ0399160000184508C5
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJD0681200001927049M
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041586000018450CWA
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ0223950000H8320566
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041503000018450GA5
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ041734000018450BY1
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04027600001835HD8H
Firmware Revision 1 . . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4

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Serial Number . . . . .
NJ04012700001835HE7B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ1051460000190303UG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04013100001841HLHJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ05525700001835HN8G
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04016400001841HMF6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0402460000H83204ET
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ465246000019101CVS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6

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Serial Number . . . . .
NJ03998610000184508DQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03990900001845JKCA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47962800001910H7MS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 2 . . . . . 15725 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 3764, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ0654140000190311V7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ038964000018450DX5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJD2552800001920H3XW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ47054800002910J9K0

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJD176810000192728XT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ041413000018450DYP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04125800001845J1C4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04169000001845HSRR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ489669000019083QR9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0416750000184507MD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04151400001845HSVK

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NJ039946000018450COC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04020200001844HT5Z
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ105562000019030CGC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ460935000019100FFX
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47861500002911J6OW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04021800001835HP3E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ463426000019100USQ

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0399890000184508DP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04167200001845HSKV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ4507990000191016G6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD0790100002927H0AM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ03837300001844J3RF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ041632000018450FYT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04169300001845JC7G

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJD263110000292702UJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03993600001845HR8M
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47005400001910174Q
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03875400001845HRA0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ461180000019100KPB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ0402390000184507EG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04147900001845HR60

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04027100001835HLB6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ475268000019110X94
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04161400001845HRAC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04114700001845HQDH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ0384930000H8330679
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ10223600001901ITCS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ0884130000190104RA

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ0399160000184508C5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJD0681200001927049M
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041586000018450CWA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ0223950000H8320566
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041503000018450GA5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ041734000018450BY1
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04027600001835HDBH

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04012700001835HE7B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ1051460000190303UG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04013100001841HLHJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ05525700001835HN8G
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04016400001841HMP6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0402460000H83204ET
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ465246000019101CVS

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ0398610000184508DQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03990900001845JKCA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47962800001910H7MS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 3 . . . . . 419423 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) -14544, 255, 63
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ0654140000190311V7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ038964000018450DX5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJD2552800001920H3XW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ47054800002910J9K0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJD176810000192728XT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ041413000018450DYP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04125800001845J1C4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04169000001845HSRR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ489669000019083QR9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0416750000184507MD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04151400001845HSVK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NJ039946000018450COC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04020200001844HT5Z
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJ105562000019030CGC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ460935000019100FFX
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47861500002911J60W
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04021800001835HP3E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ463426000019100USQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0399890000184508DF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04167200001845HSKV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ4507990000191016G6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJD0790100002927H0AM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ03837300001844J3RF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ041632000018450FYT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04169300001845JC7G
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJD263110000292702UJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03993600001845HRM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47005400001910174Q
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03875400001845HRA0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ461180000019100KPB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ0402390000184507EG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04147900001845HR60
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04027100001835HLB6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ475268000019110X94
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04161400001845HRAQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04114700001845HQDH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ0384930000H8330679
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ102236000019011TCS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ0884130000190104RA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ0399160000184508C5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJD0681200001927049M
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041586000018450CWA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ0223950000H8320566
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041503000018450GA5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ041734000018450BY1
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04027600001835HDBH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04012700001835HE7B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ1051460000190303UG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04013100001841HLHJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ05525700001835HN8G
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04016400001841HMP6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0402460000H83204ET
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ465246000019101CVS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ0398610000184508DQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03990900001845JKCA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ47962800001910H7MS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Drive Controller 8, Compaq Smart Array 4200
Controller
IDA Firmware Revision . . . . 0.42
Array Accelerator Memory . . . . 57344 Kbytes
Reserved for reads . . . . . 28672 Kbytes
Reserved for writes . . . . . 28672 Kbytes
Accelerator Status . . . . . Not Configured
Battery count . . . . . 3
Batteries charged . . . . . 3
Batteries failed . . . . . 0
ProLiant . . . . . Bus 1, Rev. JB43
ProLiant . . . . . Bus 2, Rev. JB43
ProLiant . . . . . Bus 3, Rev. JB43
ProLiant . . . . . Bus 4, Rev. JB43

Logical Drive 1 . . . . . 28392 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 6796, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0

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Serial Number . . . . .
LJ470476000019100YX4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ0402080000H82801T4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04173000001845JERE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ482671000019110546
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ46215300002910JBTV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ12253000001903169D
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ0416420000184508HG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2

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Serial Number . . . . .
NJ03982200001835H7WN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ107431000019021047
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ069825000019010ML0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ0385140000184508E9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NJ039933000018450BYE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ44349900002910J9FL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03845500001845JFJ0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0

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Serial Number . . . . .
NJ04042500001845JFHT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03862300001845HR8V
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04152800001845HRA2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04172700001845JFKR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03930000001837HNLM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ4686700000191016DM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ10276700002902H3AJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2

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Serial Number . . . . .
NJ0402700001845JFEL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ0384100001835H805
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03997600001845HQSM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04020700001835HDMV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ099680000019020EVA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04172800001841HMTF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04164100001845HSW9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0

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Serial Number . . . . .
LJ08425200002853HOMG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ07689200001853OMP4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ08571300002853H4V7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJD32260000019271HBP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03839300001837HG2E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04113300001835H4XS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03999100001842K10J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2

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Serial Number . . . . .
LJ49129400002911J2KL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04027500001835HM70
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04023600001835HMP2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04165800001844HLRA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ04131700001845OCSE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03903400001835HNVF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD11898000019201ZV0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0

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Serial Number . . . . .
NJ0400100000184508FW
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 44
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 1
  Serial Number . . . . .
LJ467308000019101EPQ
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 45
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 2
  Serial Number . . . . .
NJ04041500001845JD2U
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 46
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 3
  Serial Number . . . . .
NJ04023800001835HJNN
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 47
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 4
  Serial Number . . . . .
NJ03842800001845HQSN
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 48
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 5
  Serial Number . . . . .
LJ4678540000191016MS
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 49
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 1
  Serial Number . . . . .
NJ04133800001845J3AA
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 50
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 2

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Serial Number . . . . .
NJ04025400H824174118
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 51
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 3
  Serial Number . . . . .
NJ03944500001844J1YR
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 52
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 4
  Serial Number . . . . .
NJ04044800001845JKCC
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 53
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 5
  Serial Number . . . . .
LJ47956500002911H3ZF
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 54
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 6
  Serial Number . . . . .
LJ01188000001843HCPY
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 55
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 0
  Serial Number . . . . .
NJ04158300001835H6XT
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 56
  SCSI Bus . . . . . 2
  SCSI ID . . . . . 1
  Serial Number . . . . .
NJ0417380000H8270173
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes
  Reference time . . . . . 485489
  Sectors read . . . . . 2235278939
  Hard read errors . . . . . 0
  Read errors retry . . . . . 0

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ECC read errors . . . . . 0
Sectors written . . . . . 1924657392
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 1906537
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 176
Seek time track . . . . . 33%
Seek time third . . . . . 70%
Seek time full . . . . . 71%
Reallocated sectors . . . . . 705
Recovers read failed . . . . . 0
Bus faults . . . . . 0

Logical Drive 2 . . . . . 15725 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
  Drive geometry (Cyl, Hds, Sec) 3764, 255, 32
  Array Accelerator . . . . . Disabled

Hard Drive 1
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 0
  Serial Number . . . . .
LJ470476000019100YX4
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 2
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 1
  Serial Number . . . . .
NJ0402080000H82801T4
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 3
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 2
  Serial Number . . . . .
NJ04173000001845JERE
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 4
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 3
  Serial Number . . . . .
LJ482671000019110546
  Firmware Revision 1 . . . . . 3B00
  Model Number . . . . . COMPAQ BD00911934
  Initialized for Monitoring . Yes

Hard Drive 5
  SCSI Bus . . . . . 1
  SCSI ID . . . . . 4
  Serial Number . . . . .
LJ46215300002910JBTV

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ1225300001903169D
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041642000184508HG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ0398220001835H7WN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ10743100019021047
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ06982500019010ML0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ038514000184508E9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NJ03993300018450BYE

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ4434990002910J9FL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ0384550001845JFJ0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ0404250001845JFHT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ0386230001845HR8V
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ0415280001845HRA2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ0417270001845JFKR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0393000001837HNLN

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ468670000191016DM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ1027670002902H3AJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ0402700001845JFEL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ0384100001835H805
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0399760001845HQSM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ0402070001835HDMV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ09968000019020EVA

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04172800001841HMTP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04164100001845HSW9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ08425200002853HOMG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ076892000018530MP4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ08571300002853H4V7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJD32260000019271HBP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03839300001837HG2E

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04113300001835H4XS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03999100001842K10J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ49129400002911J2KL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04027500001835HM70
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04023600001835HMP2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04165800001844HLRA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ041317000018450CSE

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03903400001835HNVF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD11898000019201ZV0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ0400100000184508FW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ467308000019101EPQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04041500001845JD2U
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04023800001835HJNN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03842800001845HQSN

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ4678540000191016MS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04133800001845J3AA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04025400H824174118
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ03944500001844J1YR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04044800001845JKCC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ4795650000291H3ZF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ01188000001843HCPY

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04158300001835H6XT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ0417380000H8270173
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes
Reference time . . . . . 485491
Sectors read . . . . . 2235278939
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 1924657392
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 1906713
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 176
Seek time track . . . . . 33%
Seek time third . . . . . 70%
Seek time full . . . . . 71%
Reallocated sectors . . . . 705
Recovers read failed . . . . 0
Bus faults . . . . . 0

Logical Drive 3 . . . . . 314566 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) -27292, 255, 63
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ470476000019100YX4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ0402080000H82801T4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04173000001845JERE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ482671000019110546
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ46215300002910JBTV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ12253000001903169D
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ0416420000184508HG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
NJ03982200001835H7WN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ107431000019021047
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ069825000019010ML0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
NJ0385140000184508E9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
NJ0399330000184508E9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ44349900002910J9FL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03845500001845JFJ0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04042500001845JFHT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03862300001845HR8V
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04152800001845HRA2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04172700001845JFKR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03930000001837HNLN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ4686700000191016DM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ10276700002902H3AJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04027000001845JFEL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ03841000001835H805
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03997600001845HQSM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04020700001835HDMV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ099680000019020EVA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04172800001841HMTF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04164100001845HSW9
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ08425200002853H0MG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ076892000018530MF4
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ08571300002853H4V7
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJD3226000019271HBP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03839300001837HG2E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04113300001835H4XS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ03999100001842K10J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ49129400002911J2KL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04027500001835HM70
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04023600001835HMP2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04165800001844HLRA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
NJ04131700001845OCSE
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ03903400001835HNVF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD11898000019201ZV0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ0400100000184508FW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ467308000019101EPQ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04041500001845JD2U
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04023800001835HJNN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ03842800001845HQSN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ4678540000191016MS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ04133800001845J3AA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04025400H824174118
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ03944500001844J1YR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04044800001845JKCC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ47956500002911H3ZF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ01188000001843HCPY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04158300001835H6XT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ0417380000H8270173
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes
Reference time . . . . . 485492
Sectors read . . . . . 2235278939
Hard read errors . . . . . 0
Read errors retry . . . . . 0
ECC read errors . . . . . 0
Sectors written . . . . . 1924657392
Hard write errors . . . . . 0
Write errors retry . . . . . 0
Seek count . . . . . 1906889
Seek errors . . . . . 0
Spin cycles . . . . . 0
Spin up time . . . . . 176
Seek time track . . . . . 33%
Seek time third . . . . . 70%
Seek time full . . . . . 71%
Reallocated sectors . . . . 705
Recovers read failed . . . . 0

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Bus faults . . . . . 0

Drive Controller 9, Compaq Smart Array 4200
Controller
IDA Firmware Revision . . . . 0.42
Array Accelerator Memory . . . 57344 Kbytes
Reserved for reads . . . . . 28672 Kbytes
Reserved for writes . . . . . 28672 Kbytes
Accelerator Status . . . . . Not Configured
Battery count . . . . . 3
Batteries charged . . . . . 3
Batteries failed . . . . . 0
ProLiant . . . . . Bus 1, Rev. JB43
ProLiant . . . . . Bus 2, Rev. JB43
ProLiant . . . . . Bus 3, Rev. JB43
ProLiant . . . . . Bus 4, Rev. JB43

Logical Drive 1 . . . . . 28413 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 6801, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ106288000019030XUT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJG57396000029320S23
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJ0631770000185319RU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ073117000019011A5B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4

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Serial Number . . . . .
LJ0832350000185313SL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ1189080000190309JT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJF83245000019311JU2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJ101351000019020NF5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ087819000019010ZTL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ06281200001902J2HR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ109924000019021FM6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6

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Serial Number . . . . .
LJ4783240000191103BN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJF8098400001931HLSZ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJC1367100001931JF0J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ08019900001853135F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ0908840000185314P0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04163300001845HRAD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ10803800002902H626
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4

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Serial Number . . . . .
NJ04162400001845HQG5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ48478900002911J33E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ46211100001909256F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJB9002900002923H9XJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJB93405000019262KTY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ4701120000191103KB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ03856900001838HQMD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6

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Serial Number . . . . .
LJ46451300002910J8YH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ067618000018531C09
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD05576000019270BSP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ188412000019100UNM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ094170000019020LUW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ08385100002853H453
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ456968000019100F9J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4

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Serial Number . . . . .
LJ12887800001904036S
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04026500001835HHN2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ107331000019030HCF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ10890400002902H7FH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ076684000019011N3C
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04159800001845JC7F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ133627000019031X9K
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6

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Serial Number . . . . .
LJG03579000019311CEA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04020900001838HQNK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJB7789100001926HBSL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ041314000018450G83
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ463761000019100K4T
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ42225600002910J6CG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJB394690000192716XB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4

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Serial Number . . . . .
NJ04161500001845HSXP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ0400690000H83305JA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ488663000019101N7B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ11069500001902H6QC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04024300001835H3GZ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ10841800001902HRVM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04021000001845JFLV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6

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Serial Number . . . . .
LJ091922000018530QNM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ1056900000190124B8
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041390000018450CVL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 2 . . . . . 15725 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 3764, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ106288000019030XUT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJG57396000029320S23
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJ0631770000185319RU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ073117000019011A5B

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ0832350000185313SL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ1189080000190309JT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJF83245000019311JU2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJ101351000019020NF5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ087819000019010ZTL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ06281200001902J2HR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ109924000019021FM6

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
LJ4783240000191103BN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJF8098400001931HL5Z
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJCI367100001931JF0J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ08019900001853135F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ0908840000185314P0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04163300001845HRAD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ10803800002902H626

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04162400001845HGG5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ48478900002911J33E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ46211100001909256F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJB9002900002923H9XJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJB93405000019262KTY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ4701120000191103KB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ03856900001838HQMD

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ46451300002910J8YH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ067618000018531C09
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD05576000019270BSP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ188412000019100UNM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ094170000019020LUW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ08385100002853H453
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ456968000019100F9J

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ12887800001904036S
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04026500001835HHN2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ107331000019030HCF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ10890400002902H7FH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ076684000019011N3C
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04159800001845JC7F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ133627000019031X9K

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJG03579000019311CEA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04020900001838HQNK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJB7789100001926HBSL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ041314000018450G83
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ463761000019100K4T
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ42225600002910J6CG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJB394690000192716XB

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04161500001845HSXP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ0400690000H83305JA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ488663000019101N7B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ11069500001902H6QC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04024300001835H3GZ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ10841800001902HRVM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04021000001845JFLV

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Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ091922000018530QNM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ1056900000190124B8
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041390000018450CVL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Logical Drive 3 . . . . . 419423 Megabyte
Fault Tolerance . . . . . None
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) -14544, 255, 63
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJ106288000019030XUT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 2
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJG57396000029320S23
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJ0631770000185319RU
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ073117000019011A5B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ0832350000185313SL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ1189080000190309JT
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJF83245000019311JU2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 1
SCSI ID . . . . . 2
Serial Number . . . . .
LJ101351000019020NF5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 9
SCSI Bus . . . . . 1
SCSI ID . . . . . 3
Serial Number . . . . .
LJ087819000019010ZTL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 10
SCSI Bus . . . . . 1
SCSI ID . . . . . 4
Serial Number . . . . .
LJ06281200001902J2HR
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

```

```

Initialized for Monitoring . Yes

Hard Drive 11
SCSI Bus . . . . . 1
SCSI ID . . . . . 5
Serial Number . . . . .
LJ109924000019021FM6
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 12
SCSI Bus . . . . . 1
SCSI ID . . . . . 6
Serial Number . . . . .
LJ4783240000191103BN
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 13
SCSI Bus . . . . . 1
SCSI ID . . . . . 0
Serial Number . . . . .
LJF8098400001931HL5Z
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 14
SCSI Bus . . . . . 1
SCSI ID . . . . . 1
Serial Number . . . . .
LJCL367100001931JF0J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 15
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ08019900001853135F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 16
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ0908840000185314P0
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 17
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04163300001845HRAD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

```

```

Initialized for Monitoring . Yes

Hard Drive 18
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ10803800002902H626
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 19
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04162400001845HQG5
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 20
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ48478900002911J33E
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 21
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ46211100001909256F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 22
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJB9002900002923H9XJ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 23
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJB93405000019262KTY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 24
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ4701120000191103KB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

```

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Initialized for Monitoring . Yes

Hard Drive 25
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ03856900001838HQMD
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 26
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ46451300002910J8YH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 27
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ067618000018531C09
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 28
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJD05576000019270BSP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 29
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ188412000019100UNM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 30
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ094170000019020LUW
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 31
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ08385100002853H453
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

```

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Initialized for Monitoring . Yes

Hard Drive 32
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ456968000019100F9J
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 33
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ12887800001904036S
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 34
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04026500001835HNN2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 35
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ107331000019030HCF
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 36
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ10890400002902H7FH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 37
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJ076684000019011N3C
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 38
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04159800001845JC7F
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 39
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
LJ133627000019031X9K
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 40
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJG03579000019311CEA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 41
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ04020900001838HQNK
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 42
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJB7789100001926HBSL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 43
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
NJ041314000018450G83
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 44
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ463761000019100K4T
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 45
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ42225600002910J6CG
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 46
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJB39469000192716XB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 47
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ04161500001845HSXP
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 48
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ0400690000H83305JA
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 49
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJ488663000019101N7B
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 50
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJ11069500001902H6QC
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 51
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
NJ04024300001835H3GZ
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 52
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
LJ10841800001902HRVM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934

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Initialized for Monitoring . Yes

Hard Drive 53
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04021000001845JFLV
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 54
SCSI Bus . . . . . 2
SCSI ID . . . . . 6
Serial Number . . . . .
LJ09192200001853QNM
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 55
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJ1056900000190124B8
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 56
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ041390000018450CVL
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Drive Controller 10, Compaq Smart Array 4200
Controller
IDA Firmware Revision . . . . 0.42
Array Accelerator Memory . . . . 57344 Kbytes
Accelerator Status . . . . . Not Configured
Battery count . . . . . 3
Batteries charged . . . . . 3
Batteries failed . . . . . 0
ProLiant . . . . . Bus 4, Rev. JB43

Logical Drive 1 . . . . . 104856 Megabyte
Fault Tolerance . . . . . Mirroring
OS Format . . . . . Multi-Sector
Distribution
Drive geometry (Cyl, Hds, Sec) 25098, 255, 32
Array Accelerator . . . . . Disabled

Hard Drive 1
SCSI Bus . . . . . 2
SCSI ID . . . . . 0
Serial Number . . . . .
LJG0578600001931JHLY
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

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```

Hard Drive 2
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
LJG0535200001931JHH2
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 3
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
LJG38218000029320EAS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 4
SCSI Bus . . . . . 2
SCSI ID . . . . . 3
Serial Number . . . . .
LJG4587200002932H10R
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 5
SCSI Bus . . . . . 2
SCSI ID . . . . . 4
Serial Number . . . . .
NJ0402270000H83204NS
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 6
SCSI Bus . . . . . 2
SCSI ID . . . . . 5
Serial Number . . . . .
NJ04138300001845J4YH
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 7
SCSI Bus . . . . . 2
SCSI ID . . . . . 1
Serial Number . . . . .
NJ125313000019031L6M
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

Hard Drive 8
SCSI Bus . . . . . 2
SCSI ID . . . . . 2
Serial Number . . . . .
NJ04135800001845J3RB
Firmware Revision 1 . . . . 3B00
Model Number . . . . . COMPAQ BD00911934
Initialized for Monitoring . Yes

```

Hard Drive 9
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ4691120000191016PA
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 10
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ46341500002910JA3N
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 11
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ4583490000190923WV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 12
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJB70836000019261ZV3
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 13
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ09433100002902H834
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 14
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 NJ04161600001845HQH8
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 15
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJ4593760000190923NS
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 16
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ455872000019091UGE
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 17
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ4536290000190924BW
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 18
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ425225000019101DM4
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 19
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ46809200002910J4VS
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 20
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ4596120000191002N2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 21
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJ456813000019100P9C
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 22
 SCSI Bus 2
 SCSI ID 2
 Serial Number
 LJ4566300000190834B5
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 23
 SCSI Bus 2
 SCSI ID 3
 Serial Number
 LJ45692100001910124N
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 24
 SCSI Bus 2
 SCSI ID 4
 Serial Number
 LJ471513000019091RE2
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 25
 SCSI Bus 2
 SCSI ID 5
 Serial Number
 LJ46104300002909R8VV
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 26
 SCSI Bus 2
 SCSI ID 6
 Serial Number
 LJF9255900002931HD3H
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 27
 SCSI Bus 2
 SCSI ID 0
 Serial Number
 LJB853180000192708RA
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Hard Drive 28
 SCSI Bus 2
 SCSI ID 1
 Serial Number
 LJG4356100002932H50U
 Firmware Revision 1 3B00
 Model Number COMPAQ BD00911934
 Initialized for Monitoring . Yes

Graphics Mode 03 (80-Column Text)

Primary Monitor attached to . . ATI RAGE IIC PCI
 Graphics Controller
 with Video Graphics Color Monitor

Base Memory

```

System Total . . . . . 637 Kbytes
Amount Free . . . . . 595 Kbytes
(609984 Bytes)

Extended Memory
System Total . . . . . 4193280 Kbytes

Expanded Memory
LIM Driver Support . . . . . LIM driver not
loaded

Operating System . . . . . MS-DOS version 7.00
(from diskette)

Status of file: C:\IO.SYS
Date and Time . . . . . 06/14/1999
18:10:44
Size . . . . . 0 Bytes

Status of file: C:\MSDOS.SYS
Date and Time . . . . . 06/14/1999
18:10:44
Size . . . . . 0 Bytes

-----
** Dump of C:\CONFIG.SYS
-----
** End of file

Status of file: C:\COMMAND.COM
*** File does not exist

-----
** Dump of C:\AUTOEXEC.BAT
-----
** End of file

Environment variables
PATH=
PROMPT=$P$G
COMSPEC=A:\COMMAND.COM
CMDLINE=inspect /u
End of environment

Revisions Table

Previous Revisions
I/O Board Revision . . . . . 01
Assembly Version . . . . . 1
Functional Revision Level . A
Memory Board 1 Revision . . . 01
Assembly Version . . . . . 1
Functional Revision Level . A

Current Revisions
I/O Board Revision . . . . . 01
Assembly Version . . . . . 1
Functional Revision Level . A
Memory Board 1 Revision . . . 01

```

```

Assembly Version . . . . . 1
Functional Revision Level . A

Memory Allocation (including INSPECT)
PSP SIZE NAME TRAPPED INTERRUPTS
-----
088F 007200 COMMAND.COM 2Fh 2Eh 24h 23h 22h
0A5A 206624 INSPECT.EXE FFh F9h F4h F3h F2h
Flh F0h EEh
EBh 3Fh 00h

System Configuration Memory
00 - 0F : 57 01 45 00 10 12 05 09 07 99 26
82 50 80 00 00
10 - 1F : 40 00 00 00 03 80 02 00 3C 00 00
00 00 00 00 02
20 - 2F : 00 00 00 00 7F 20 20 40 00 92 00
00 00 18 02 AC
30 - 3F : 00 3C 19 80 00 00 XX XX XX XX XX
XX XX XX XX XX

BIOS Data Area
40:0000 : F8 03 F8 02 00 00 00 00 78 03 00
00 00 00 40 9F
40:0010 : 27 44 00 7D 02 00 00 00 00 00 1E
00 1E 00 00 00
40:0020 : 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00
40:0030 : 00 00 00 00 00 00 00 00 00 00 00
00 00 00 01 01
40:0040 : 23 00 00 00 00 30 00 0E 02 03 50
00 00 10 00 00
40:0050 : 00 14 00 00 00 00 00 00 00 00 00
00 00 00 00 00
40:0060 : 0E 0D 00 D4 03 29 30 C2 11 C5 76
00 20 C3 0A 00
40:0070 : 00 00 00 12 00 01 00 00 14 14 14
14 01 01 01 01
40:0080 : 1E 00 3E 00 18 10 00 60 F9 11 0B
01 00 00 00 05
40:0090 : 17 00 00 00 30 00 10 00 00 00 00
00 00 00 00 00
40:00A0 : 00 00 00 00 00 00 00 00 5C 13 00
CO 00 00 00 00
40:00B0 : 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00
40:00C0 : 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00
40:00D0 : 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00
40:00E0 : 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00
40:00F0 : 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00

Interrupt Vector Table (including INSPECT)
00 - 03 : 0A6A:0555 0070:0465
07C6:0016 0070:0465
04 - 07 : 0070:0465 F000:FF54
F000:8FDD F000:9BD0

```

```

08 - 0B : 07C6:001F 07C6:0028
F000:9BD0 F000:9BD0
0C - 0F : F000:9BD0 07C6:0082
07C6:009A 0070:0465
10 - 13 : C000:12DE F000:F84D
F000:F841 0070:03EE
14 - 17 : F000:8EC8 0206:0240
0070:042D F000:EF83
18 - 1B : F000:B683 0887:002F
F000:FE6E 0070:045F
1C - 1F : F000:FF53 F000:0000
0000:0522 C000:2019
20 - 23 : 00C9:0FA8 00C9:0FB2
088F:0314 088F:016D
24 - 27 : 088F:0178 00C9:0FBC
00C9:0FC6 00C9:0FDD
28 - 2B : 00C9:106F 0070:0466
00C9:106F 00C9:106F
2C - 2F : 00C9:106F 00C9:106F
088F:0162 0890:01CC
30 - 33 : C90F:E4EA F000:9B00
00C9:106F 00C9:106F
34 - 37 : 00C9:106F 00C9:106F
00C9:106F 00C9:106F
38 - 3B : 00C9:106F 00C9:106F
00C9:106F 00C9:106F
3C - 3F : 00C9:106F 00C9:106F
00C9:106F 1AEA:04F5
40 - 43 : F000:EC59 0000:0000
F000:F065 C000:242C
44 - 47 : F000:9BD0 F000:9BD0
0000:0000 F000:9BD0
48 - 4B : F000:9BD0 F000:9BD0
F000:9BD0 F000:9BD0
4C - 4F : F000:9BD0 F000:9BD0
F000:9BD0 0070:04FC
50 - 53 : F000:9BD0 F000:9BD0
F000:9BD0 F000:9BD0
54 - 57 : F000:9BD0 F000:9BD0
F000:9BD0 F000:9BD0
58 - 5B : F000:9BD0 F000:9BD0
F000:9BD0 F000:9BD0
5C - 5F : F000:9BD0 F000:9BD0
F000:9BD0 F000:9BD0
60 - 63 : 0000:0000 0000:0000
0000:0000 0000:0000
64 - 67 : 0000:0000 0000:0000
0000:0000 0000:0000
68 - 6B : F000:9BD0 F000:9BD0
F000:9BD0 F000:9BD0
6C - 6F : F000:9BD0 C000:12DE
F000:9BD0 F000:9BD0
70 - 73 : 07C6:0035 F000:9C1F
F000:9BD0 F000:9BD0
74 - 77 : 07C6:00E2 F000:9C21
07C6:00FA F000:9BD0
78 - 7B : 0000:0000 0000:0000
0000:0000 0000:0000
7C - 7F : 0000:0000 0000:0000
0000:0000 0000:0000
80 - 83 : 0000:0000 0000:0000
0000:0000 0000:0000

```

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84 - 87 : 0000:0000 0000:0000
0000:0000 0000:0000
88 - 8B : 0000:0000 0000:0000
0000:0000 0000:0000
8C - 8F : 0000:0000 0000:0000
0000:0000 0000:0000
90 - 93 : 0000:0000 0000:0000
0000:0000 0000:0000
94 - 97 : 0000:0000 0000:0000
0000:0000 0000:0000
98 - 9B : 0000:0000 0000:0000
0000:0000 0000:0000
9C - 9F : 0000:0000 0000:0000
0000:0000 0000:0000
A0 - A3 : 0000:0000 0000:0000
0000:0000 0000:0000
A4 - A7 : 0000:0000 0000:0000
0000:0000 0000:0000
A8 - AB : 0000:0000 0000:0000
0000:0000 0000:0000
AC - AF : 0000:0000 0000:0000
0000:0000 0000:0000
B0 - B3 : 0000:0000 0000:0000
0000:0000 0000:0000
B4 - B7 : 0000:0000 0000:0000
0000:0000 0000:0000
B8 - BB : 0000:0000 0000:0000
0000:0000 0000:0000
BC - BF : 0000:0000 0000:0000
0000:0000 0000:0000
C0 - C3 : 0000:0000 0000:0000
0000:0000 0000:0000
C4 - C7 : 0000:0000 0000:0000
0000:0000 0000:0000
C8 - CB : 0000:0000 0000:0000
0000:0000 0000:0000
CC - CF : 0000:0000 0000:0000
0000:0000 0000:0000
D0 - D3 : 0000:0000 0000:0000
0000:0000 0000:0000
D4 - D7 : 0000:0000 0000:0000
0000:0000 0000:0000
D8 - DB : 0000:0000 0000:0000
0000:0000 0000:0000
DC - DF : 0000:0000 0000:0000
0000:0000 0000:0000
E0 - E3 : 0000:0000 0000:0000
0000:0000 0000:0000
E4 - E7 : 0000:0000 0000:0000
0000:0000 00D8:00D8
E8 - EB : 000D:0CFC 00C8:00C8
0078:0CFD 0CFC:0078
EC - EF : 0000:1F07 7800:0006
1F85:0046 0087:7800
F0 - F3 : 13C1:0046 1CC8:0009
13C1:5D37 1400:1CC8
F4 - F7 : 1B00:0246 0101:7248
0000:0000 0000:5FFE
F8 - FB : 5FFE:0020 1497:6304
000C:0003 0000:0907
FC - FF : 4346:00FC 0000:00F6
EFE2:0000 0246:F000

```

```

PCI Devices Information
Signature . . . . . PCI
Config Mechanism #1 . . . . . Supported
Config Mechanism #2 . . . . . Not Supported
Spec Cycle for Config #1 . . . . . Supported
Spec Cycle for Config #2 . . . . . Not Supported
BIOS Interface Version . . . . . 2.10
Last PCI Bus Number . . . . . 16
Number of PCI Devices . . . . . 14

Bus Number . . . . . 0
Device Number . . . . . 1
Function Number . . . . . 00h
Slot Number . . . . . 7
Vendor ID . . . . . 0E11h
Device ID . . . . . 0046h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFC0000h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7BF0000h
Memory Address Length . . . . . 1000h
IO Address Base . . . . . 2000h
IO Address Length . . . . . 100h

Bus Number . . . . . 0
Device Number . . . . . 2
Function Number . . . . . 00h
Slot Number . . . . . 8
Vendor ID . . . . . 0E11h
Device ID . . . . . 0046h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFC0000h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7BE0000h
Memory Address Length . . . . . 1000h
IO Address Base . . . . . 2400h
IO Address Length . . . . . 100h

Bus Number . . . . . 0
Device Number . . . . . 3
Function Number . . . . . 00h
Slot Number . . . . . 9
Vendor ID . . . . . 0E11h
Device ID . . . . . 0046h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFC0000h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7BD0000h
Memory Address Length . . . . . 1000h
IO Address Base . . . . . 2800h
IO Address Length . . . . . 100h

```

```

Bus Number . . . . . 0
Device Number . . . . . 13
Function Number . . . . . 00h
Slot Number . . . . . 0
Vendor ID . . . . . 1002h
Device ID . . . . . 4756h
Revision ID . . . . . 7Ah
Device Type . . . . . VGA Compatible

Controller
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFE0000h
IRQ Line . . . . . 255
IRQ Pin . . . . . Not Used
Memory Address Base . . . . . F4000000h
Memory Address Length . . . . . 1000000h
IO Address Base . . . . . 2C00h
IO Address Length . . . . . 100h
Memory Address Base . . . . . F7BA0000h
Memory Address Length . . . . . 1000h

Bus Number . . . . . 0
Device Number . . . . . 14
Function Number . . . . . 00h
Slot Number . . . . . 0
Vendor ID . . . . . 0E11h
Device ID . . . . . 0010h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFF80000h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
IO Address Base . . . . . 3000h
IO Address Length . . . . . 100h
Memory Address Base . . . . . F6000000h
Memory Address Length . . . . . 1000000h
Memory Address Base . . . . . F5000000h
Memory Address Length . . . . . 1000000h

Bus Number . . . . . 5
Device Number . . . . . 1
Function Number . . . . . 00h
Slot Number . . . . . 1
Vendor ID . . . . . 0E11h
Device ID . . . . . 0046h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFC0000h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7EF0000h
Memory Address Length . . . . . 1000h
IO Address Base . . . . . 4000h
IO Address Length . . . . . 100h

Bus Number . . . . . 5
Device Number . . . . . 2
Function Number . . . . . 00h
Slot Number . . . . . 2

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Vendor ID . . . . . 0E11h
Device ID . . . . . 0046h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFC0000h
IRQ Line . . . . . 11
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7EE0000h
Memory Address Length . . . . . 1000h
IO Address Base . . . . . 4400h
IO Address Length . . . . . 100h

Bus Number . . . . . 5
Device Number . . . . . 3
Function Number . . . . . 00h
Slot Number . . . . . 3
Vendor ID . . . . . 0E11h
Device ID . . . . . 0046h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFC0000h
IRQ Line . . . . . 9
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7ED0000h
Memory Address Length . . . . . 1000h
IO Address Base . . . . . 4800h
IO Address Length . . . . . 100h

Bus Number . . . . . 5
Device Number . . . . . 4
Function Number . . . . . 00h
Slot Number . . . . . 4
Vendor ID . . . . . 0E11h
Device ID . . . . . 0046h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFC0000h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7EC0000h
Memory Address Length . . . . . 1000h
IO Address Base . . . . . 4C00h
IO Address Length . . . . . 100h

Bus Number . . . . . 5
Device Number . . . . . 5
Function Number . . . . . 00h
Slot Number . . . . . 5
Vendor ID . . . . . 0E11h
Device ID . . . . . 1229h
Revision ID . . . . . 08h
Device Type . . . . . Ethernet Controller
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFF00000h
IRQ Line . . . . . 15
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7EB0000h

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Memory Address Length . . . . . 1000h
IO Address Base . . . . . 5000h
IO Address Length . . . . . 40h
Memory Address Base . . . . . F7D00000h
Memory Address Length . . . . . 100000h

Bus Number . . . . . 5
Device Number . . . . . 6
Function Number . . . . . 00h
Slot Number . . . . . 6
Vendor ID . . . . . 0E11h
Device ID . . . . . 000Fh
Revision ID . . . . . 14h
Device Type . . . . . SCSI Bus Controller
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . 0h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
IO Address Base . . . . . 5400h
IO Address Length . . . . . 100h
Memory Address Base . . . . . F7CF0000h
Memory Address Length . . . . . 100h
Memory Address Base . . . . . F7CE0000h
Memory Address Length . . . . . 1000h

Bus Number . . . . . 5
Device Number . . . . . 6
Function Number . . . . . 01h
Slot Number . . . . . 6
Vendor ID . . . . . 0E11h
Device ID . . . . . 000Fh
Revision ID . . . . . 14h
Device Type . . . . . SCSI Bus Controller
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . 0h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
IO Address Base . . . . . 5800h
IO Address Length . . . . . 100h
Memory Address Base . . . . . F7CD0000h
Memory Address Length . . . . . 100h
Memory Address Base . . . . . F7CC0000h
Memory Address Length . . . . . 1000h

Bus Number . . . . . 13
Device Number . . . . . 1
Function Number . . . . . 00h
Slot Number . . . . . 10
Vendor ID . . . . . 0E11h
Device ID . . . . . 0046h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFC0000h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7FF0000h
Memory Address Length . . . . . 1000h
IO Address Base . . . . . 6000h
IO Address Length . . . . . 100h

Bus Number . . . . . 13

```

```

Device Number . . . . . 2
Function Number . . . . . 00h
Slot Number . . . . . 11
Vendor ID . . . . . 0E11h
Device ID . . . . . 0046h
Revision ID . . . . . 01h
Device Type . . . . . Invalid Sub
Class(4)
Programming Interface . . . . . 00h
Expansion ROM Base Address . . . . . FFFC0000h
IRQ Line . . . . . 5
IRQ Pin . . . . . INTA#
Memory Address Base . . . . . F7FE0000h
Memory Address Length . . . . . 1000h
IO Address Base . . . . . 6400h
IO Address Length . . . . . 100h

```

LIGHTNING is a trademark of Compaq Computer Corporation.

ProLiant 8500 is a trademark of Compaq Computer Corporation.

Appendix D: 180-Day Space

TPC-C 180 Day Space Requirements								TpmC	40,000.60
Warehouses	3250						8hr Space	Total Space KB	
Table	Rows	Data KB	Index KB	Extra 5% KB					
Warehouse	3250	352	56	20				428	
District	32500	3,616	72	184				3872	
Customer	97500000	70,909,096	4,553,208	3,773,115				79235419	
History	97500000	5,416,808	0				2,878,293	5416808	
NewOrder	29250000	462,456	1,296					463752	
Orders	97500000	2,988,512	1,650,672				17,354,270	4639184	
OrderLine	975001817	60,937,616	151,792				28,505,498	61089408	
Item	100000	9,528	96	481				10105	
Stock	325000000	104,000,008	233,056	5,211,653				109444717	
Total		244,727,992	6,590,248	8,985,454			48,738,061	260,303,694	
	MB								
Dynamic Space	67,718	Sum of Data for Order, Orderline and History							
Static Space	186,485	Sum of Data+Index+5%-Dynamic Space							
Free Space	na	Total Allocated Spac - (Dynamic + Static Space)							
Daily Growth	13,335	(Dynamic Space/(W*62.5))*tpmc							
Daily Spread	-	(Free Space -1.5*Daily Growth) Zero Assumed							
180 Day Space MB	2,586,854	18 GB Drive		17,300 GB					
180 Day Space GB	2,526.22 GB	9 GB Drive		8,474 GB					
		4 GB Drive		3,999 GB					
Log Size	95,000 MB								
KB Per New Order	5,0947 KB								
8 hr log MB	95,527 MB								
8 hr log GB	93.2881 GB								
Space Usage	GB Needed	Disks Measured	GB Priced						
180 Day Space DB	2,526.22	0	0.00	18GB		0		0.00	
		252	2135.36	9GB		252		2135.36	
		224	895.78	4GB		0		0.00	
Total DB		476	3031.13 GB			252		2135.36	
8-hr log + mirror	186.5763	28	484.40 GB					484.40	
OS, Swap	3	1	3,999 GB					3,999	
Total Storage	2,715.80 GB		3,519.53 GB					2,623.75	

Appendix E: Third Party Letters

Microsoft

July 2, 1999

Mr. Mike Engbrock
Compaq Computer Corporation
P.O. Box 692000
Houston, TX 77269-2000

Dear Mr. Engbrock:

Here is the information you requested regarding U.S. pricing for several Microsoft products, to be used in conjunction with TPC-C benchmark testing.

Microsoft SQL Server 7.0, Enterprise Edition (one server plus unlimited CALs)	\$28,999
Microsoft Windows NT Server 4.0, Enterprise Edition (one server plus 25 CALs)	\$3,999
Windows 2000 Server (one server plus 5 CALs)	\$809
Visual C++ Professional 6.0 (single copy)	\$549
5-year maintenance for above software @ \$2095/yr	\$10,475

This quote is valid for the next 90 days.

If I can be of any further assistance, please contact me at 425-936-5301 or tomkr@microsoft.com.

Yours truly,



Thomas Kreyche
Product Manager
SQL Server Marketing

Microsoft Corporation is an equal opportunity employer.

*** TOTAL PAGE.02 ***

ALLSTAR SYSTEMS

Item Description	Stock Number	Price Each	QTY	Total	Service	Total Price
ProLiant 6500-550ZM ProLiant Enterprise Server - Parts Exchange - 1 Year	303300-001	65,090.00	1	\$65,090.00		\$65,090.00
Onsite 5x6 4 Hr Service Upgrade from Compaq Standard Service Cache Processor Kit		5597	2		\$1,194	\$1,194.00
512MB SD RAM Memory Kit (2 x 256MB)	308914-821	0.00	0	\$26,880.00	\$43,153.42	\$43,153.42
Compaq SMART Array Controller 4200	238807-821	5,720.00	4	\$1,902.40	\$26,880.00	\$26,880.00
StorageWorks Enclosure Model 4214R	239636-821	2,217.60	4	\$7,328.60	\$7,328.60	\$7,328.60
ProLiant Storage System - Parts Exchange - 1 Year	103981-001	2,576.90	34	\$87,594.00		\$87,594.00
4.3GB Wide Ultra SCSI-3	242584-001	446.88	1	\$446.88	\$17,340.00	\$17,340.00
Compaq VCA VES Color Monitor	308008-001	239.68	6	\$1,438.08		\$1,438.08
68GB DAT Drive	285853-821	703.36	1	\$703.36		\$703.36
Compaq Rack Model 7142	169753-001	1,880.00	3	\$5,040.00		\$5,040.00
Compaq Rack Sidewall Kit	165664-001	152.32	2	\$304.64		\$304.64
Compaq Rack Coupling Kit	169592-001	206.32	1	\$206.32		\$206.32
4.3 GB Hot-Ping SCSI-3 Drive - 10K	336346-821	502.88	224	\$112,645.12		\$112,645.12
ProLiant 1600 6500 - 12MB, 100TX Nic	396357-821	838.48	252	\$211,887.76		\$211,887.76
ProLiant Workgroup Server - Parts Exchange - 1 Year	386746-001	2,994.64	5	\$13,423.20		\$13,423.20
Onsite 5x6 4 Hr Service Upgrade from Compaq Standard Service	FM-L-OPRT-12	259.00	10		\$2,590.00	\$2,590.00
ProLiant 1600 6500 Processor Option Kit	401268-821	1,398.88	8	\$6,994.40	\$2,308.44	\$6,994.40
128-Megabyte SD DIMM Kit	318515-821	327.04	15	\$4,905.60		\$4,905.60
4.3GB Wide Ultra2 SCSI Hard Drive	349815-821	489.28	5	\$2,346.40		\$2,346.40
Compaq Dual Speed Switch SW5322	355310-821	2,944.48	4	\$11,777.92		\$11,777.92
8-port 10baseT hub		23.00	4467	\$128,358		\$128,358.00
IMK5 Toolkit for NT	0	493.00	1	\$493.00		\$493.00
Large Purchase and Cash discount				(\$53,948.94)	(\$5,992.82)	(\$59,941.76)
Totals:				\$646,082.76	\$60,594.04	\$706,676.78

Prices include a large volume and cash prepay discount. Prices may vary when items are purchased separately.
Service prices based upon a service contract for all items listed.

On-site 5 days/ 8 hour day/ 4 hour response upgrade to Compaq standard 2nd day Service
The above quotation is valid for at least 60 days.

Compaq Parts Exchange contract in years 4 & 5 in lieu of parts warranty.