TPC Benchmark^{TM} C
Full Disclosure Report

Oracle's SPARC SuperCluster with T3-4 Servers

Using

Oracle Database 11g Release 2 with

Oracle Real Application Clusters and Partitioning

First Edition

December 2, 2010

First Printing – December 2, 2010

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Abstract

This report documents the methodology and results of the TPC Benchmark ™ C test conducted on the following environment as measured by Oracle America, Inc. The benchmark configuration, environment and methodology used to produce and validate the test results, and the pricing model used to calculate the price/performance, were audited by Francois Raab of InfoSizing to verify compliance with the relevant TPC specifications.

System	*Processors*	*Database Environment*	*Operating System*
SPARC SuperCluster with 27 T3-4 Servers	4 SPARC T3 1.65GHz (per T3-4 Server)	Oracle Database 11g Release 2 with Oracle Real Application Clusters and Partitioning	Oracle Solaris 10 09/10

TPC Benchmark C Metrics

Total System Cost	*TPC-C Throughput*	*Price / Performance*	*Availability Date*
Three year cost includes: • Hardware • Software • Maintenance	Maximum Qualified Throughput expressed as transactions per minute – C (tpmC)	Total System Cost / tpmC	Date for which all components, hardware and software are available for purchase
$30,528,863 USD	**30,249,688**	**$1.01 USD**	**June 1, 2011**

SPARC SuperCluster with T3-4 Servers

TPC-C 5.11.0
TPC-Pricing 1.5.0

Report Date
December 2, 2010

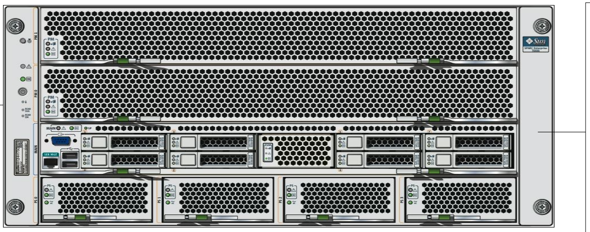
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
$30,528,863USD	**30,249,688 tpmC**	**$1.01USD/tpmC**	**June 1, 2011**

Database Server Processors/Cores/Threads	Database Manager	Operating System	Other Software	Number of Users
SPARC T3 1.65GHz 108 / 1,728 / 13,824	Oracle Database 11g Release 2 Enterprise Ed. With Oracle Real Application Clusters and Partitioning	Oracle Solaris 10 09/10	Tuxedo CFS-R Tier 1 Oracle iPlanet Web Server	24,300,000

Clients

81 Sun Fire X4170M2
2.93GHz Intel
Xeon X5670 HC
48GB Memory
2 146GB SAS disk

Database Nodes



27 Sun SPARC T3-4 Servers
4 1.65GHz SPARC T3
512GB Memory
3 300GB 10K RPM SAS
4 8Gb/s FC HBA, 2 port
10GbE SFP+
5RU High

Storage

67 X4270M2 DATA COMSTAR
6 2TB 7.2K RPM SAS
2 Sun F5100 Flash Arrays

2 X4270M2 DATA COMSTAR
5 2TB 7.2K RPM SAS
2 Sun F5100 Flash Arrays

28 X4270M2 REDO COMSTAR
11 2TB 7.2K RPM SAS

System Component	Each Server Node		Each Client	
Processors/Cores/Threads and cache	4/64/512	SPARC T3 1.65GHz 6 MB L2 Cache	2/12/24	Intel Xeon X5670 12MB Smart Cache
Memory		512GB (13.5TB Total)		48GB
Disk Controllers	4	8Gb/s FC HBA 2 Port	1	8 port Internal SAS
OS Disks (each system)	3	300GB 10K RPM SAS	2	146GB 10K RPM SAS
External Storage (Equally visible to all T3-4 Server nodes)	11,040 720	24GB SSD Flash Modules 2TB 7.2K RPM SAS		
Total Storage		1.76PB		

ORACLE

SPARC SuperCluster with T3-4 Servers

TPC-C 5.11.0
TPC-Pricing 1.5.0

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Description	Part Number	Price Source	Unit Price	Qty	Extended Price	3 yr Maint. Price
Server Hardware						
Sun T3-4 Server, XATO chassis	SE5ASY11Z	1	6,400	27	172,800	
Pwr Jumper Cables, 2.5mx1 RoHS	SR-JUMP-1MC13	1	23	108	2,484	
8Gb/s FC HBA, 2 port, Emulex	SG-XPCIE2FC-EM8-Z	1	2,399	108	259,092	
Sun Dual 10GbE SFP+ PCIe 2.0	1110A-Z	1	1,195	27	32,265	
Sun 10Gbps Dual Rate SFP+ SR	X2129A-N	1	995	27	26,865	
SE 300GB 10K 2.5" SAS HDD	SE6Y3G11Z	1	689	81	55,809	
2 x SPARC T3 1.65GHz 16c	SE5Y1B11Z	1	31,000	54	1,674,,000	
16GB (2*8GB) DDR3 Memory	SE6Y2C11Z	1	3,200	864	2,764,800	
2000 Watt PSU Climate Saver	SE5Y5PS3Z	1	995	108	107,460	
Snap-in Rear I/O Module, Cable Mgmt	SE5YRM2Z	1	699	27	18,873	
Tripp Lite Smart Online 5000VA UPS (+10%)	947887	2	2,953	30	88,590	
Tripp Lite UPS 192V RM 3U Ext. Batt.(+10%)	959740	2	970	30	29,100	
				Sub-Total	5,232,138	0
Server Storage						
X4270M2 12 disk 1 x PSU	X4270M2-H1-AA	1s	3,499	97	339,403	
Oracle Solaris 11 Express	SOLZ9-11XC9A7M	1	20	97	1,940	
Jumper Cable Kit: 1 x 1m C13	XSR-JUMP-1MC13-N	1	23	97	2,231	
3.5" 2TB 7.2K RPM SAS HDD	RA-SS1CR-2T7K	1s	949	720	683,280	
8Gb/s FC dual port, QLogic	SG-XPCIE2FC-QF8-N	1	2,399	97	232,703	
6Gb/s SAS External PCI-E HBA	SGX-SAS6-EXT-Z	1	550	276	151,800	
6Gb/s SAS Internal PCI-E HBA	SG-SAS6-INT-Z	1	419	69	28,911	
6Gb/s SAS RAID HBA, Internal	SG-SAS6-R-INT-Z	1	1,079	28	30,212	
1 x Intel Xeon X5670 ATO	5921A	1s	2,499	97	242,403	
1200W AC Gold PSU XATO	5933A	1s	349	97	33,853	
4GB (1 x 4GB) DDR3-1333	4910A	1s	255	194	49,470	
Express Slide rail kit	5889A-N	1	150	97	14,550	
X4270 X4275 CPU Heatsink XATO	5899A-N	1	0	97	0	
0.5M, Mini, shielded, SAS cable	XTA-0.5M-SAS	1	95	552	52,440	
Sun Storage F5100 Flash Array	TA5100RASA4-80AA	1	159,995	138	22,079,310	
15M LC-LC FC Optical Cable	X9734A-Z-N	1	105	410	43,050	
				Sub-Total	23,985,556	0
Server Software						
Oracle Solaris 10 09/10 for SPARC T3-4	SOLZS-11X9A9S-IP-N	1	0	27	0	
Oracle Database 11g Release 2 Ent. Ed., Per Processor for 3 years		1	23,750	432	10,260,000	
Oracle Real Applications Clusters, Per Processor for 3 years		1	11,500	432	4,968,000	
Oracle Partitioning, Per Processor for 3 years		1	5,750	432	2,484,000	
Oracle Incident Server Support Package for 3 years		1	62,100	3		186,300
				Sub-Total	17,712,000	186,300
Client Hardware						
X4170M2 1 x Standard PSU	X4170M2-H1-AA	1	2,699	81	218,619	
Jumper Cable Kit: 1 x 1m C13	XSR-JUMP-1MC13-N	1	23	81	1,863	
4GB (1 x 4GB) DDR3-1333	4910A	1	255	972	247,860	
146GB 10K RPM 2.5" SAS disk	RB-SS2CF-146G10K-N	1	329	162	53,298	
6Gb/s SAS Internal PCI-E HBA	SG-SAS6-INT-Z	1	419	81	33,939	
1 x Intel Xeon X5670 ATO	5921A	1	2,499	162	404,838	
Slide Rail Kit	6326A-N	1	150	81	12,150	
X4170 CPU Heatsink, XATO	5898A-N	1	0	162	0	
				Sub-Total	972,567	0
Client Software						
Oracle Solaris 10 09/10	5908A	1	0	81	0	
Oracle iPlanet Web Server		1	1,000	81	81,000	
Oracle Premier Software Support		1	17,820	3		53,460
Tuxedo CFS-R Tier 1		1	1,800	81	145,800	
Oracle Premier Support for 3 years (Tuxedo CFS-R Tier 1)		1	32,076	3		96,228
				Sub-Total	226,800	149,688

Description	Part Number	Price Source	Unit Price	Qty	Extended Price	3 yr Maint. Price
Other Hardware						
Brocade 5300 with 8G SFP EB	SG-XSWBRO5300-8EB	1	139,995	2	279,990	
Brocade Std Switch Rack Kit	SG-XSWBRO3X50-RK-Z	1	250	4	1,000	
Brocade Power Kit N. America	SG-XSWBRO-PWR-01-Z	1	250	4	1,000	
Brocade DCX Chassis	SG-XSWBRODCX-ZP-N	1	138,999	1	138,999	
Brocade 8Gb 48 port Blade w 8Gb	SG-XSWBRO8GB-M48W8	1	88,500	7	619,500	
Brocade DCX PWR 110V NA	SG-XSWBROPWR-NA110	1	250	2	500	
SUT Mgmt system and Svc Processor Control Workstation						
Sun Fire X4170M2	X4170M2-H1-AA	1	2,699	1	2,699	
Oracle Solaris 10 09/10	5894A-N	1	0	1	0	
US PC Peripheral Kit (Keyboard / Mouse)	3701A-PC	1	50	1	50	
Express Slide rail kit	6326A	1	150	1	150	
4GB (1 x 4GB) DDR3-1333	4850A	1	255	3	765	
6Gb/s SAS Internal PCI-E HBA	SG-SAS6-INT-Z	1	419	1	419	
146GB 10K RPM 2.5" SAS disk	RB-SS2CF-146G10K-N	1	329	1	329	
DVD+/-RW SATA-based drive ATO	8325A-N	1	145	1	145	
1 x Intel Xeon E5620 ATO	5924A	1	599	1	599	
X4170 CPU Heatsink, XATO	5898A-N	1	0	1	0	
17" TFT Monitor	X7204A-N	1	219	1	219	
Sun Network 10GbE Switch 72p	X2074A-F	1	79,200	1	79,200	
Sun QSFP to 4 LC 20M cable	X2127A-20M	1	1,395	7	9,765	
Sun Rack II 42U	SR-1242E-N	1	2,849	15	42,735	
PDU 15kVA, Single Phase, LV	SR-15K-L630-N	1	1,200	8	9,600	
PDU 10kVA, Single Phase, LV	SR-10K-L630-N	1	900	4	3,600	
PDU 5kVA, Single Phase, LV	SR-5K-L630CP-N	1	350	18	6,300	
Netgear ProSafe GS724T 24 port (+10%)	1984876	2	330	19	6,270	
Tripp Lite 25' Black Cat5e cable (+10%)	324521	2	7	546	3,817	
				Sub-Total	1,207,651	0
Oracle Premier Hardware Support	Q-PREM-SPRT-SYS	1	3,763,541	3		11,257,249
			Totals		**49,336,712**	**11,593,237**
Total Oracle Hardware, Software and Maintenance Discount		1			(30,401,086)	

Pricing Sources:

1. Oracle

2. CDW

Audited by Francois Raab of InfoSizing, Inc.

Notes:
1s – One or more components of the measured configuration have been substituted in the priced configuration. See the FDR for details.

Three-Year Cost of Ownership:	**$30,528,863**
tpmC	**30,249,688**
$/tpmC	**1.01 USD**

Prices used in TPC Benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on 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 section of the TPC benchmark specifications. If you find that stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.

ORACLE	SPARC SuperCluster with T3-4 Servers	TPC-C 5.11.0 TPC-Pricing 1.5.0
		Report Date December 2, 2010

Numerical Quantities Summary:

MQTh, computed Maximum Qualified Throughput	30,249,688

Response Time in Seconds	90th %	Avg.	Max.
New-Order	0.75	0.353	17.468
Payment	0.73	0.336	17.463
Order-Status	0.71	0.328	17.308
Delivery (Interactive)	0.66	0.292	8.872
Delivery (Deferred)	0.06	0.034	3.587
Stock-Level	0.76	0.370	17.392
Menu	0.68	0.298	8.881
Response Time delay added for emulated components		0.1	

Transaction Mix, in percent of total transactions	
New-Order	44.96%
Payment	43.01%
Order-Status	4.01%
Delivery	4.01%
Stock-Level	4.01%

Keying / Think Times (in seconds)	Min.		Avg.		Max.	
New-Order	18.001	0.001	18.007	12.026	21.884	124.167
Payment	3.001	0.001	3.007	12.025	6.865	123.707
Order-Status	2.001	0.001	2.007	10.032	5.884	102.488
Delivery	2.001	0.001	2.007	5.042	5.881	53.640
Stock-Level	2.001	0.001	2.007	5.042	5.882	52.618

Test Duration	
Ramp-up Time	1,973 seconds
Measurement Interval	7,200 seconds
Number of Checkpoints	Ongoing
Checkpoint Interval	Ongoing Incremental Checkpoints
Number of transactions (all types) completed in Measurement Interval	8,073,759,601

INFO SIZING

TPC TRANSACTION PROCESSING PERFORMANCE COUNCIL CERTIFIED AUDITOR

Benchmark Sponsor: Brad Carlile
Sr. Director, Strategic Applications Engineering (SAE)
Oracle Corporation
3295 NW 211th Terrace
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November 30, 2010

I verified the TPC Benchmark™ C performance of the following Client Server configuration:

Platform: SPARC SuperCluster with T3-4 Servers
Operating system: Solaris 10 09/10
Database Manager: Oracle Database 11g Release 2 Enterprise Edition
with Oracle Real Application Clusters and Partitioning
Transaction Manager: Tuxedo CFS-R Tier-1

The results were:

CPU's Speed	Memory	Disks	NewOrder 90% RT	tpmC
Server: SPARC SuperCluster with T3-4 Servers (27 nodes, each node with)				
4 x SPARC T3 (1.65GHz)	512 GB (6 MB L2 per T3)	3 300 GB 10k rpm SAS Visible to all nodes 11,040 x 24 GB SSD 720 x 2 TB 7.2k rpm SAS	0.75 Sec.	**30,249,688.61**
Eighty One (81) Clients: Sun Fire X4170M2 Server (each with)				
2 x Intel Xeon X5670 HC (2.93 GHz)	48.0 GB (12 MB Smart Cache per processor)	2 x 146 GB 10k rpm SAS	n/a	n/a

In my opinion, these performance results were produced in compliance with the TPC requirements for the benchmark.

The following verification items were given special attention:

- The transactions were correctly implemented
- The database records were the proper size
- The database was properly scaled and populated
- The ACID properties were met
- Input data was generated according to the specified percentages
- The transaction cycle times included the required keying and think times
- The reported response times were correctly measured
- At least 90% of all delivery transactions met the 80 Second completion time limit
- All 90% response times were under the specified maximums
- The measurement interval was representative of steady state conditions
- The reported measurement interval was 120 minutes
- On-going Incremental Checkpoints were used during the measurement interval
- The 60 day storage requirement was correctly computed
- The system pricing was verified for major components and maintenance

Additional Audit Notes:

> A change to the distribution of data files was made after the durability tests were executed. The performance run was executed with the new distribution. Given that the durability tests demonstrate the ability of the system to prevent loss of committed transactions in spite of a single point of failure, and given that this property is largely independent of the data file distribution, it is my opinion that this change did not affect compliance of the result with the ACID requirements.
>
> The measured configuration included (82) Sun Fire X4275 Servers used as external storage controllers configured using COMSTAR that were substituted by (82) Sun Fire X4270M2 Servers in the priced configuration. The measured configuration also included (165) 2TB 7.2k rpm SATA disks that were substituted by (165) 2TB 7.2k rpm SAS disks in the priced configuration. Based on the specifications of these systems and on performance data collected during testing, it is my opinion that these substitutions have no significant effect on performance.

Respectfully Yours,

François Raab, President

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Preface

This report documents the compliance of the Oracle TPC Benchmark ™ C testing on the SPARC SuperCluster with 27 T3-4 Servers running Oracle Database 11g Release 2 with Oracle Real Application Clusters and Partitioning, executing the TPC Benchmark ™ C Standard, Revision 5.11.0.

The TPC Benchmark ™ C Full Disclosure Report is organized as follows:

- The main body of the document lists each item in Clause 8 of the TPC Benchmark ™ C Standard and explains how each specification is satisfied.
- Appendix A contains the application source code that implements the Tuxedo CFS-R Tier 1 transaction server code and Oracle iPlanet Web Server plug-ins.
- Appendix B contains the code used to create and load the database.
- Appendix C contains the configuration information for the Oracle Solaris 10 09/10, Oracle Solaris 11 Express, Oracle iPlanet Web Server, Oracle Database 11g Release 2 with Oracle Real Application Clusters and Partitioning and Tuxedo CFS-R Tier 1.

SPARC SuperCluster TPC Benchmark ™C Full Disclosure

Introduction

The TPC Benchmark ™ C Standard Specification requires test sponsors to publish, and make available to the public, a full disclosure report for the results to be considered compliant with the Standard.

This report is intended to satisfy the Standard's requirement for full disclosure. It documents the compliance of the benchmark tests required in the *TPC Benchmark ™* C results for the SPARC SuperCluster with T3-4 Servers running Oracle Database 11g Release 2 with Oracle Real Application Clusters and Partitioning.

In the *Standard Specification*, the main headings in Clause 8 are keyed to the other clauses. The headings in this report use the same sequence, so that they correspond to the titles or subjects referred to in Clause 8.

Each section in this report begins with the text of the corresponding item from Clause 8 of the *Standard Specification*, printed in italic type. The plain type text that follows explains how the tests comply with the TPC-C Benchmark

0 General Items

0.1 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 and output functions.

Appendix A contains the application source code that implements the transactions and forms modules.

0.2 Sponsor

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

This benchmark test was sponsored by Oracle America, Inc.

0.3 Parameter Settings

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

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

Appendix C contains all the required parameter settings for the T3-4 Server database nodes, the X4270M2 COMSTAR nodes, the Brocade DCX and 5300 SAN switches, the X4170M2 clients, all Oracle Solaris 10 09/10 and Oracle Solaris 11 Express tunables, along with parameters for Oracle Database 11g Release 2 with Oracle Real Application Clusters and Partitioning, Oracle iPlanet Web Server and Tuxedo CFS-R Tier 1.

0.4 Configuration Diagrams

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

Database Nodes Description

The SUT is a SPARC SuperCluster with 27 T3-4 Servers running Oracle Database 11g Release 2 with Oracle Real Application Clusters and Partitioning. Each of the T3-4 Servers are configured as described below:

	Sun T3-4 Server
Processors	4 SPARC T3 1.65GHz
Processors / Cores / Threads	4 / 64 / 512
Memory	512 GB DDR3
Disks	3 300GB 10K RPM 2.5" SAS
Adapters	4 8Gb/s dual port PCI-E FC-AL
	1 internal PCI-E SAS
Networks	1 10GbE dual port PCI-E SFP+ Ethernet
	4 port 1GbE integrated Ethernet
Service Processor	Integrated

Table 1: T3-4 Server Configuration

Oracle Real Application Clusters and Partitioning communicates over a 10GbE fibre utilizing the Sun Network 10GbE 72p Switch. The Oracle Database 11g Release 2 database tables, indexes and logs are accessed equally by all nodes of the cluster by utilizing two separate SAN environments. For descriptive purposes the SANs are labeled as DATA and REDO. All of the TPC-C database objects, including tables, indexes, and temp storage is located in the DATA SAN. The REDO SAN is used solely for the Oracle Database 11g Release 2 redo logs. The T3-4 Server DBMS nodes are connected to the DCX SAN switch via 3 of the 4 8Gb/s PCI-E adapters. The fourth 8Gb/s adapter is connected to the REDO SAN.

DATA COMSTAR Heads Description

The measured configuration of the DATA SAN consists of 67 Sun Fire X4275 and 2 X4270M2 Servers running Oracle Solaris 11 Express as Common Multi-protocol SCSI Target (COMSTAR) heads. The COMSTAR heads are configured and used as external storage controllers. The Sun Fire X4275 Server is no longer orderable and has been replaced by the Sun Fire X4270M2 Server. Each of COMSTAR DATA heads were configured with the same hardware peripherals (except for the 2TB disks, SATA vs. SAS), version of Oracle Solaris 11 Express, and were loaded with the same distribution of database tables and indexes. The configuration of the Sun Fire X4275 Server and the Sun Fire X4270M2 Server is detailed below:

	Sun Fire X4275 Server (Measured)	***Sun Fire X4270M2 Server (Measured and Priced)***
Processor	Intel Xeon E5540 2.53GHz QC	Intel Xeon X5670 2.93GHz HC
Processors / Cores / Threads	1 / 4 / 8	1 / 6 / 12
Memory	6GB	8GB
Disks	6 2TB SATA 3.5" 7.2K RPM	5 2TB SAS 3.5" 7.2K RPM
Adapters	1 8Gb/s dual port PCI-E FC-AL	
	4 6Gb/s external SAS PCI-E	
	1 6Gb/s internal SAS PCI-E	
Network	4 port 1GbE integrated Ethernet	
Service Processor	Integrated	

Table 2: DATA COMSTAR Configuration

For the Priced Configuration, all 69 of the DATA COMSTAR heads are Sun Fire X4270M2 Servers with the above configuration. Each DATA COMSTAR head is configured with 2 Sun Storage F5100 Flash Arrays. Each F5100 array is configured with 80 24GB FMODS (Flash Modules), for a total of 1.92TB. The F5100 arrays are connected to the 8 port external SAS PCI-E adapters via 0.5m SAS cables. Each SAS port is connected to a FMOD expander port on the F5100 array. Total of 8 external SAS ports on the COMSTAR head to 8 FMOD expanders on the 2 F5100 arrays. Each FMOD is visible to the COMSTAR head as a separate device for a total of 160 devices per DATA COMSTAR head. Multiple logical units (LUNs) are striped across the 160 FMODs using Solaris Volume Manager (SVM). These LUNs are then exported and are visible to each of the 27 T3-4 Servers via the Brocade DCX SAN switch across the 8Gb/s FC-AL.

Sixty-Seven COMSTAR heads of the DATA SAN have 6 2TB disks for Oracle Solaris 11 Express and to satisfy the 60 day space requirements. The remaining two heads have 5 2TB disks. No database tables were stored on the 2TB disks for the measurement, they were used solely for backup of the initial database and for 60 day storage. Each DATA COMSTAR head is connected to the DCX SAN switch via 2 8Gb/s fibre channel connections.

REDO COMSTAR Heads Description (Logs)

The measured configuration of the REDO SAN consists of 15 Sun Fire X4275 and 13 X4270M2 Servers running Oracle Solaris 11 Express as Common Multi-protocol SCSI Target (COMSTAR) heads. The COMSTAR heads are configured and used as external storage controllers. The Sun Fire X4275 Server is no longer orderable and has been replaced by the Sun Fire X4270M2 Server in the priced configuration. Each of the REDO COMSTAR heads is configured with the same hardware peripherals, version of Oracle Solaris 11 Express, and managed the same load for the Oracle redo (recovery) logs. The details of the Sun Fire X4275 Server and the Sun Fire X4270M2 Server are detailed below:

	Sun Fire X4275 Server (Measured)	*Sun Fire X4270M2 Server (Measured and Priced)*
Processor	Intel Xeon E5540 2.53GHz QC	Intel Xeon X5670 2.93GHz HC
Processors / Cores / Threads	1 / 4 / 8	1 / 6 / 12
Memory	6GB	8GB
Disks	11 2TB SATA 3.5" 7.2K RPM	11 2TB SAS 3.5" 7.2K RPM
Adapters	1 8Gb/s dual port PCI-E FC-AL	
	1 6Gb/s internal SAS RAID PCI-E	
Network	4 port 1GbE integrated Ethernet	
Service Processor	Integrated	

Table 3: REDO COMSTAR Configuration

Each REDO COMSTAR are configured with 11 2TB SATA/SAS disks through the 6Gb/s Internal SAS RAID adapter. One 2TB disk is dedicated for the OS and local filesystems. The remaining ten disks are configured as a 10 way RAID-0 stripe using SVM (Solaris Volume Manager). 2 SVM soft partitions are created and exported to the Brocade 5300 SAN switch via the 8Gb/s fibre. All redo log devices are visible to all T3-4 Server database nodes through the Brocade 5300 SAN switch. The following diagram is an example of how the T3-4 Server database nodes are connected to the REDO COMSTAR heads via the Brocade 5300 SAN switches to provide redundancy and continued access to the database redo (recovery) logs. Each of the T3-4 Server database nodes mirrors their redo logs to separate REDO COMSTAR heads.

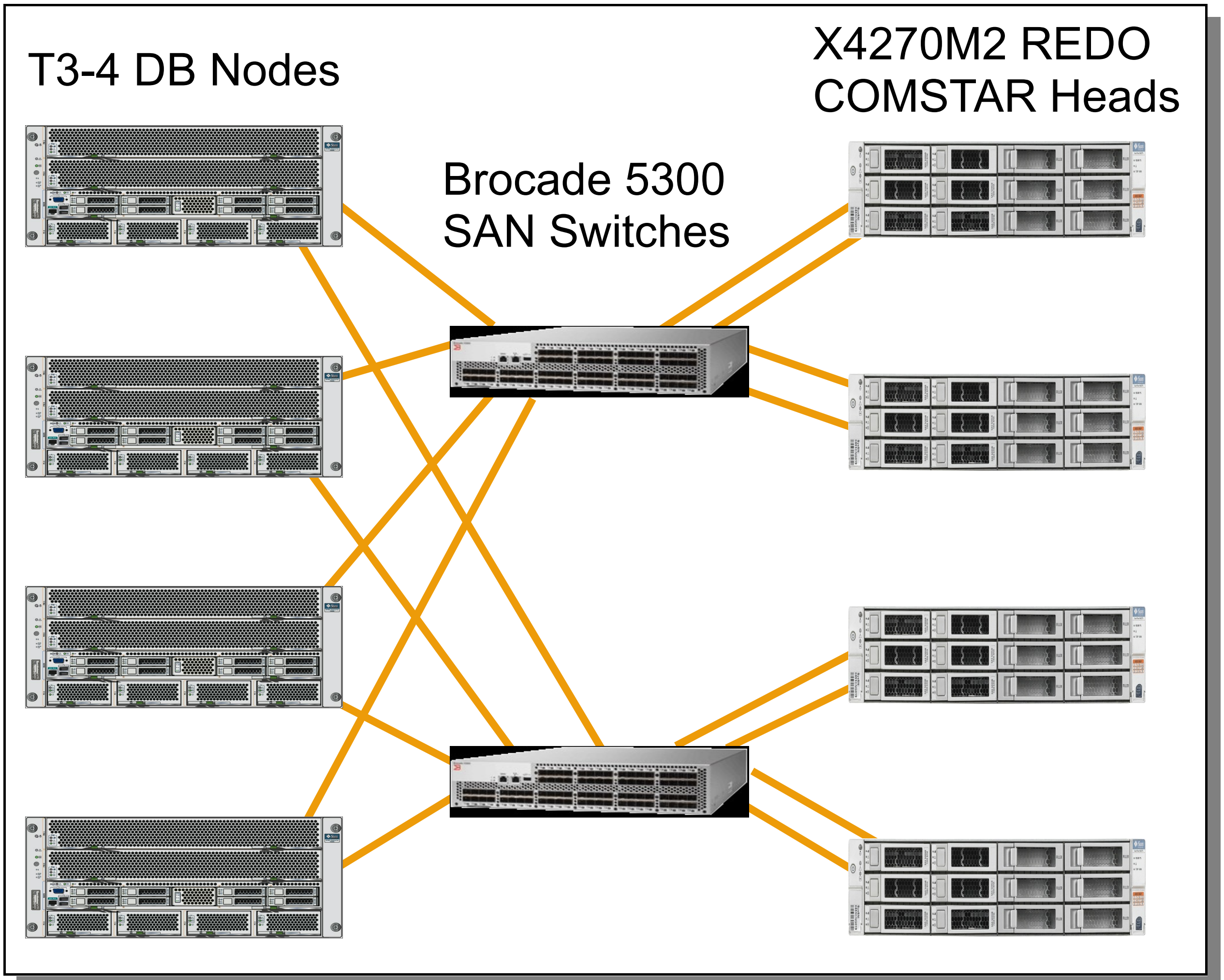

Figure 1: REDO Log Example

Client Configuration Description

The TPC-C transactions are entered via a Remote Terminal Emulator which communicates with Oracle iPlanet Web Server running on 81 Sun Fire X4170M2 clients. Each client is configured with:

	X4170M2 Clients
Processors	2 Intel Xeon X5670 2.93GHz HC
Processors/Cores/ Threads	2 / 12 / 24
Memory	48 GB DDR3
Disks	2 146GB 10K RPM 2.5” SAS
Adapters	1 6Gb/s internal PCI-E SAS
Network	4 port 1GbE integrated Ethernet
Service Processor	Integrated

Table 4: Client Configuration

The client systems receive transactions via Oracle iPlanet Web Server which communicates with Tuxedo CFS-R Tier 1 with connections into the Oracle Database 11g Release 2 with Oracle Real Application Clusters and Partitioning.

There are two other networks configured on the system that do not participate in atomic transactions. The first is a service processor network which all systems are members of. This is used for powering on and off and system console access. The second network is the System Under Test (SUT) network between each of the T3-4 Servers, X4270M2s, X4170M2s, SAN switches and 10GbE switch for system administration and other maintenance related activities.

Figure 1 shows the measured configuration and Figure 2 the full priced configuration. The DATA and REDO COMSTAR descriptions above also detail the differences for the priced and measured configurations. The only other addition to the priced configuration are the Tripp-Lite Smart Online UPS for the T3-4 Server database nodes. Sixty-Seven of the external storage controllers for the DATA storage environment will be substituted in the priced configuration, along with fifteen of the external storage controllers used in the REDO environment. The controllers being replaced are the Sun Fire X4275 Servers by the Sun Fire X4270M2 Servers. The substitution is done per Clause 2.3.3.3 of the Pricing specification using the following information:

	DATA COMSTAR heads				*REDO COMSTAR heads*			
CPU	Qty	X4275	Qty	X4270M2	Qty	X4275	Qty	X4270M2
Type	1	E5540	1	X5670	1	E5540	1	X5670
GHz		2.53		2.93		2.53		2.93
# Cores		4		6		4		6
# Threads		8		12		8		12
L1 cache		64KB		64KB		64KB		64KB
L2 cache	4	256KB	4	256KB	4	256KB	4	256KB
L3 cache		8MB		12MB		8MB		12MB
Memory								
Size	3	2GB	2	4GB	3	2GB	2	4GB
MHz		1066		1333		1066		1333
Type		DDR3		DDR3		DDR3		DDR3
Adapters								
Bus Type	1	6Gb/s SAS HBA, internal	1	6Gb/s SAS HBA, internal	1	6Gb/s SAS RAID internal	1	6Gb/s SAS RAID internal
	1	8Gb/s FC-AL	1	8Gb/s FC-AL	1	8Gb/s FC-AL	1	8Gb/s FC-AL
	4	6Gb/s SAS External	4	6Gb/s SAS External				

Table 5: COMSTAR External Controller Substitution

In addition to the external storage controllers in the REDO environment, the SATA disks used by fifteen of the REDO COMSTAR heads are being substituted with an equal number of SAS disks. The capacity and drive characteristics are the same, only the interface changes. Performance data for the measured run was shown to the auditor demonstrating the SAS drives performed the same amount of work with less than one-half the service time and a third less system overhead. Therefore all requirements of Clause 2.3.4.3 were satisfied.

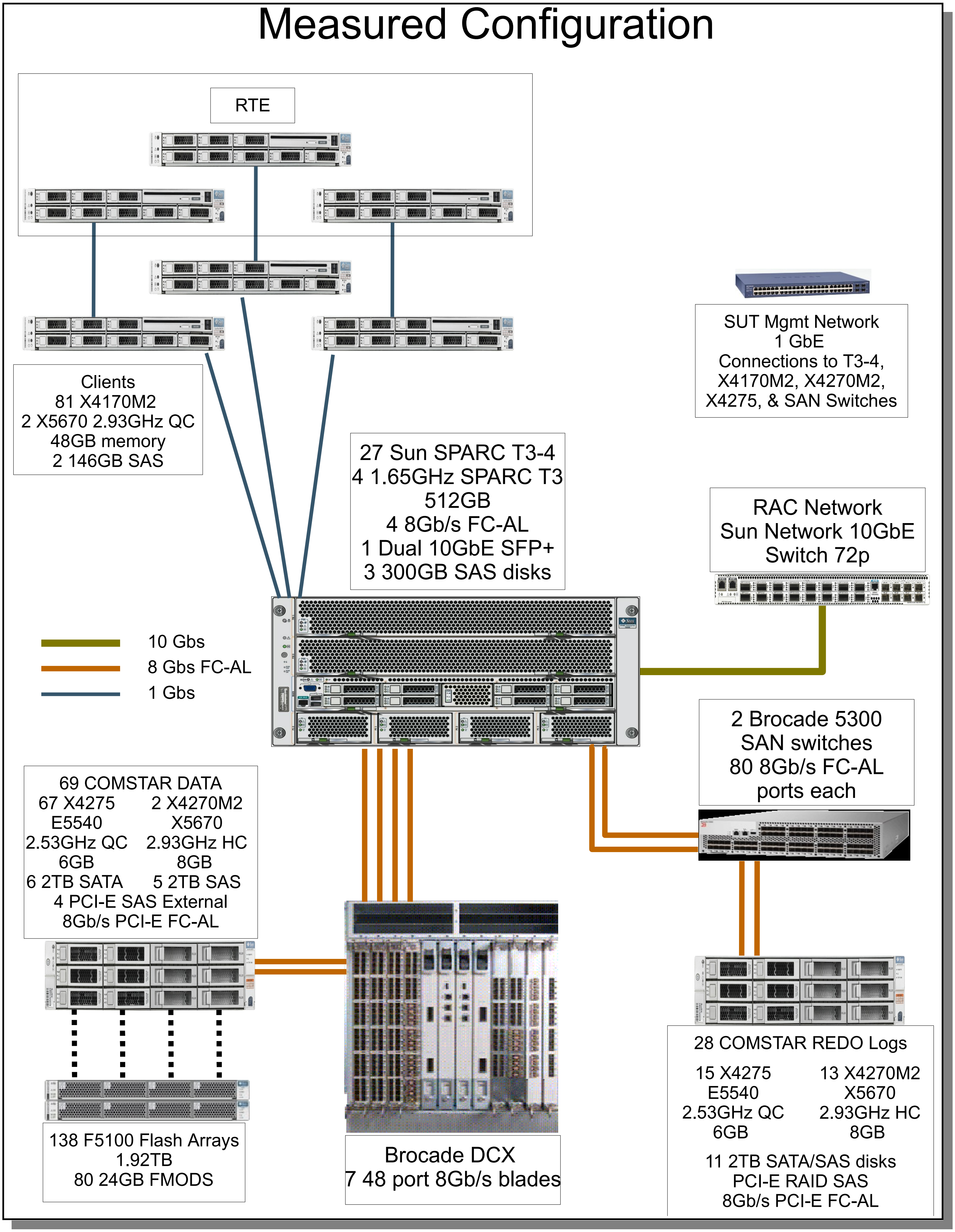

Figure 2: Measured Configuration

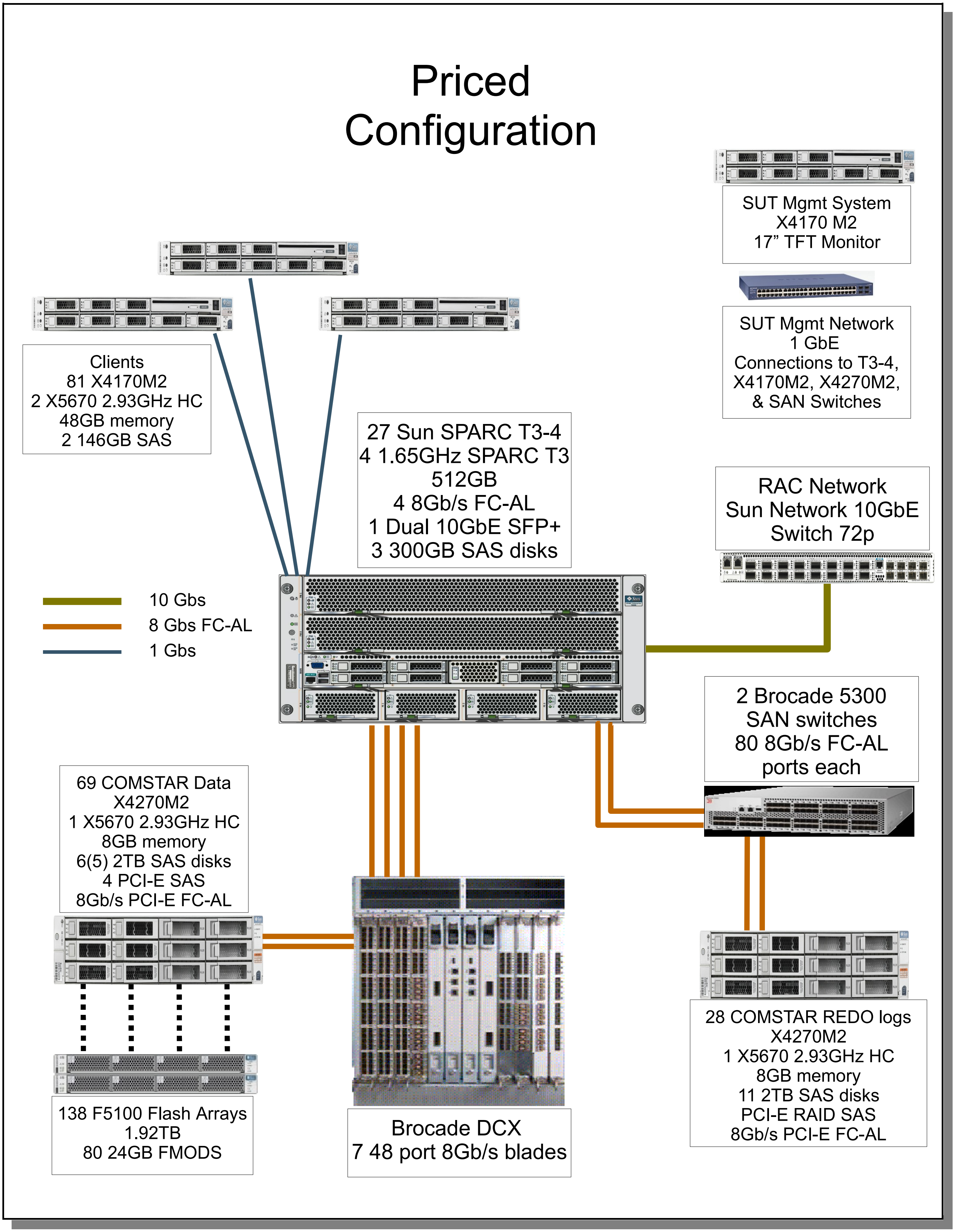

Figure 3: Priced Configuration

1 Clause 1: Logical Database Design Related Items

1.1 Table Definitions

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

Appendix B describes the programs that define, create, and populate the Oracle database used for this testing.

1.2 Physical Organization of Database

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

Please see the section 0.4 Configuration Details for a detailed description of the SUT environment. Each DATA COMSTAR head has 2 F5100s for a total of 160 24GB Flash Modules (FMODS). Each FMOD is loaded with a VTOC to create four slices. Using SVM, a partition is created across all of the FMODs on a DATA head for each of the slices. Soft partitions are created on each of the four partitions also using SVM. The soft partitions are exported as raw devices through the Brocade DCX switch to each of the T3-4 Server database nodes. These raw devices seen by the database nodes are then evenly “sliced” and the slices used by Oracle Database 11g Release 2 to create the tablespaces on. The full details of the scripts used to create the slices and partitions are in Appendix B.

1.3 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 maximum key value for these new rows.

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

1.4 Partitioning

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

All tables, except for ITEM and related indexes, are partitioned horizontally. The details of the partitioning are disclosed in Appendix B for the database build environment.

2 Clause 2: Transaction And Terminal Profiles Related Items

2.1 Random Number Generation

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

The Random Number Generator used was SysVr4 nrand48() and erand48() UNIX calls.

2.2 Input/Output Screen Layouts

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

All screen layouts followed the specification exactly. The HTML source code used to generate the screens is available in Appendix A.

2.3 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.

The terminal attributes were verified by the auditor manually exercising each specification during the onsite audit portion of this benchmark.

2.4 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 data is passed to the terminals using the HTML format, which can be displayed with any standard Web browser. The application code for the HTML display generation is listed in Appendix A.

2.5 Percentage of Home and Remote Order-lines

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

The Transaction Input Percentages and Mix Table contains the percentage of home and remote order-lines for all of the New-Order transactions completed during the measurement interval.

2.6 Percentage of Rolled Back New-Orders

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

The Transaction Input Percentages and Mix table contains the percentage of New-Order transactions that were rolled back due to an illegal item being entered.

2.7 Items per New-Order

The number of items per orders entered by New-Order transactions must be disclosed.

The Transaction Input Percentages and Mix table contains the average number of items ordered for each New-Order transaction.

2.8 Percentage of Home and Remote Payments

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

The Transaction Input Percentages and Mix table contains the percentage of home and remote warehouse transactions that occurred during the measurement interval for the Payment transactions.

2.9 Percentage of Access by Last Name

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

The Transaction Input Percentages and Mix table contains the percentage of Payment and Order-Status transactions that were accessed by C_LAST (non-primary key access) during the measurement interval.

2.10 Percentage of Skipped Deliveries

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

The Transaction Input Percentages and Mix table contains the percentage of Delivery transactions which were "skipped" due to insufficient number of rows in the NEW-ORDER table.

2.11 Transaction Mix

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

The Transaction Input Percentages and Mix table contains the mix of each transaction type executed by the SUT.

New-Order	SPARC SuperCluster
Percentage of Home order-lines	99.00%
Percentage of Remote order-lines	1.00%
Percentage of Rolled Back Transactions	1.00%
Avg. Number of Items per Transactions	10.00
Payment	
Percentage of Home Transactions	85.00%
Percentage of Remote Transactions	15.00%
Access by C_LAST (Non-primary key)	
Percentage of Payment Transactions	60.00%
Percentage of Order-Status Transactions	60.00%
Delivery	
Percentage of Deliveries skipped	0.00%
Transaction Mix	
New-Order	44.96%
Payment	43.01%
Order-Status	4.01%
Delivery	4.01%
Stock-Level	4.01%

Table 6: Transaction Input Percentages and Mix

2.12 Queueing Mechanism

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

Delivery transactions were submitted to servers using the same mechanism that other transactions used, Tuxedo API. The only difference was that tpacall() was used instead of tpcall() to call the server process asynchronously, i.e. control would return to the client thread immediately and the deferred delivery part would complete asynchronously in the server process.

3 Clause 3 Transaction and System Properties Related Items

3.1 Transaction System Properties (ACID)

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

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

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

3.2 Atomicity

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

3.2.1 Completed Transaction

Perform the Payment transaction for a randomly selected warehouse, district, and customer (by customer number as specified in Clause 2.5.1.2) and verify that the records in the CUSTOMER, DISTRICT, and WAREHOUSE tables have been changed appropriately.

A row was randomly selected from the warehouse, district and customer tables “local” to the database node running the transaction, 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.

The test was repeated using rows selected randomly from the warehouse, district and customer tables considered “remote” to the database node running the transaction and the balances noted. A payment transaction was started using the same warehouse, district and customer identifiers and a known amount. The payment was committed and the rows verified to contain correctly updated balances.

3.2.2 Aborted Transaction

Perform the Payment transaction for a randomly selected warehouse, district, and customer (by customer number as specified in Clause 2.5.1.2) and substitute a ROLLBACK of the transaction for the COMMIT of the transaction. Verify that the records in the CUSTOMER, DISTRICT, and WAREHOUSE tables have NOT been changed.

A row was randomly selected from the warehouse, district and customer tables “local” to the database node running the transaction, 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.

The test was repeated using rows selected randomly from the warehouse, district and customer tables considered “remote” to the database node running the transaction and the balances noted. A payment transaction was started using 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.

3.2.3 Consistency

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

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

1. The sum of the district year-to-date (d_ytd) balance for all districts within a warehouse is equal to the balance of the warehouse year-to-date (w_ytd) for the district's warehouse;
2. For each district, the next order id (d_next_o_id) minus one, is equal to the most recent order id (max(o_id)) from the ORDER table for the associated district and warehouse. Also, the (d_next_o_id) minus one is equal to the max(no_o_id) (most recent new-order) from the NEW-ORDER table;
3. For each district, the maximum order id minus minimum order id in the ORDER table plus one equals the number of rows in the NEW-ORDER table for that district;
4. For each district, the sum of the order line counts in the ORDER table equals the number of rows in the ORDER-

LINE table for that district;

These consistency conditions 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. The same four consistency tests were performed after the reported performance run during the audit.

3.3 Isolation Tests

The TPC Benchmark C Standard defines nine tests that are to be performed to demonstrate that required level of transaction isolation are met.

These tests are performed on the 27-node cluster configured for 2,430,000 warehouses. Each of the nine isolation tests were executed twice. In the first case, all transactions were executed on just one node of the 27-node cluster. In the second case, the transactions were executed on two separate nodes. In both cases, all tests have been verified to demonstrate the desired transaction isolation level.

3.3.1 Isolation Test 1.

This test demonstrates isolation for read-write conflicts of Order-Status and New-Order transactions when the New-Order transaction is committed.

The test proceeds as follows:

1. An Order-Status transaction T0 was executed and committed for a randomly selected customer, and the order returned was noted.
2. A New-Order transaction T1 was started for the same customer used in T0. T1 was stopped prior to COMMIT.
3. An Order-Status transaction T2 was started for the same customer used in T1. T2 completed and was committed without being blocked by T1. T2 returned the same order that T0 had returned.
4. T1 was allowed to complete and was committed.
5. An Order-Status transaction T3 was started for the same customer used in T1. T3 returned the order inserted by T1.

3.3.2 Isolation Test 2

This test demonstrates isolation for read-write conflicts of Order-Status and New-Order transactions when the New-Order transaction is rolled back.

The test proceeds as follows:

1. An Order-Status transaction T0 was executed and committed for a randomly selected customer and the order returned was noted.
2. A New-Order transaction T1 with an invalid item number was started for the same customer used in T0. T1 was stopped immediately prior to ROLLBACK.
3. An Order-Status transaction T2 was started for the same customer used in T1. T2 completed and was committed without being blocked by T1. T2 returned the same order that T0 had returned.
4. T1 was allowed to ROLLBACK.
5. An Order-Status transaction T3 was started for the same customer used in T1. T3 returned the same order that T0 had returned.

3.3.3 Isolation Test 3

This test demonstrates isolation for write-write conflicts of two New-Order transactions when both transactions are committed.

The test proceeds as follows:

1. The D_NEXT_O_ID of a randomly selected district was retrieved.
2. A New-Order transaction T1 was started for a randomly selected customer within the district used in step 1. T1 was stopped immediately prior to COMMIT.
3. Another New-Order transaction T2 was started for the same customer used in T1. T2 waited.
4. T1 was allowed to complete. T2 completed and was committed.
5. The order number returned by T1 was the same as the D_NEXT_O_ID retrieved in step 1. The order number returned by T2 was one greater than the order number returned by T1.
6. The D_NEXT_O_ID of the same district was retrieved again. It had been incremented by two (i.e. it was one greater than the order number returned by T2).

3.3.4 Isolation Test 4

This test demonstrates isolation for write-write conflicts of two New-Order transactions when one transaction is rolled back.

The test proceeds as follows:

1. The D_NEXT_O_ID of a randomly selected district was retrieved.
2. A New-Order transaction T1, with an invalid item number, was started for a randomly selected customer within the district used in step 1. T1 was stopped immediately prior to ROLLBACK.
3. Another New-Order transaction T2 was started for the same customer used in T1. T2 waited.
4. T1 was allowed to roll back, and T2 completed and was committed.
5. The order number returned by T2 was the same as the D_NEXT_O_ID retrieved in step 1.
6. The D_NEXT_O_ID of the same district was retrieved again. It had been incremented by one (i.e. one greater than the order number returned by T2).

3.3.5 Isolation Test 5

This test demonstrates isolation for write-write conflicts of Payment and Delivery transactions when Delivery transaction is committed.

The test proceeds as follows:

1. A query was executed to find out the customer who is to be updated by the next delivery transaction for a randomly selected warehouse and district.
2. The C_BALANCE of the customer found in step 1 was retrieved.
3. A Delivery transaction T1 was started for the same warehouse used in step 1. T1 was stopped immediately prior to COMMIT.
4. A Payment transaction T2 was started for the same customer found in step 1. T2 waited.
5. T1 was allowed to complete. T2 completed and was committed.
6. The C_BALANCE of the customer found in step 1 was retrieved again. The C_BALANCE reflected the results of both T1 and T2.

3.3.6 Isolation Test 6

This test demonstrates isolation for write-write conflicts of Payment and Delivery transactions when the Delivery transaction is rolled back.

The test proceeds as follows:

1. A query was executed to find out the customer who is to be updated by the next delivery transaction for a randomly selected warehouse and district.
2. The C_BALANCE of the customer found in step 1 was retrieved.
3. A Delivery transaction T1 was started for the same warehouse used in step 1. T1 was stopped immediately prior to ROLLBACK.
4. A Payment transaction T2 was started for the same customer found in step 1. T2 waited.
5. T1 was allowed to ROLLBACK. T2 completed and was committed. The C_BALANCE of the customer found in step 1 was retrieved again. The C_BALANCE reflected the results of only T2.

3.3.7 Isolation Test 7

This test demonstrates repeatable reads for the New-Order transaction while an interactive transaction updates the prices of some items.

The test proceeds as follows:

1. The I_PRICE of two randomly selected items X and Y were retrieved.
2. A New-Order transaction T1 with a group of items including items X and Y was started. T1 was stopped immediately after retrieving the prices of all items. The prices of items X and Y retrieved matched those retrieved in step 1.
3. A transaction T2 was started to increase the price of items X and Y by 10%.
4. T2 did not stall and was committed.
5. T1 was resumed, and the prices of all items were retrieved again within T1. The prices of items X and Y matched those retrieved in step 1.
6. T1 was committed.

7. The prices of items X and Y were retrieved again. The values matched the values set by T2.

Execution followed *Case D* of *Clause 3.4.2.7.*

3.3.8 Isolation Test 8

This test demonstrates isolation for phantom protection between New-Order and Order-Status transactions.

The test proceeds as follows:

1. An Order-Status transaction T1 was started for a randomly selected customer.
2. T1 was stopped immediately after reading the order table for the selected customer to find the most recent order for that customer.
3. A New-Order transaction T2 was started for the same customer. T2 completed and was committed without being blocked by T1.
4. T1 was resumed and the ORDER table was read again to determine the most recent order for the same customer. The order found was the same as the one found in step 2.
5. T1 completed and was committed.

3.3.9 Isolation Test 9.

This test demonstrates isolation for phantom protection between New-Order and Delivery transactions.

The test proceeds as follows:

1. The NO_D_ID of all NEW_ORDER rows for a randomly selected warehouse and district was changed to 11. The changes were committed.
2. A Delivery transaction T1 was started for the selected warehouse.
3. T1 was stopped immediately after reading the NEW_ORDER table for the selected warehouse and district. No qualifying row was found.
4. A New-Order transaction T2 was started for the same warehouse and district. T2 completed and was committed without being blocked by T1.
5. T1 was resumed and the NEW_ORDER table was read again. No qualifying row was found.
6. T1 completed and was committed.
7. The NO_D_ID of all NEW_ORDER rows for the selected warehouse and district was restored to the original value. The changes were committed.

3.4 Durability

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

3.4.1 Instantaneous Interruption

This test was executed by following these steps:

1. The total number of orders was determined by the sum of D_NEXT_O_ID from all rows in the district table; giving the beginning count.
2. The RTE was started with full user load.
3. The test was allowed to ramp up and ran in steady state for more than 5 minutes.
4. The test ran for a least one more minute.
5. The following failures were induced simultaneously (within 3 seconds).
    - All database nodes (T3-4 Servers) were interrupted using the system console and put at the Open Boot Prompt (OBP) ok> prompt. (This halts all processing immediately to the database nodes, no instructions are executed.)
    - Power to the RAC switch (Sun Network 10GbE 72p switch) was disconnected
6. The RTE is shutdown. The RTE report is generated.
7. Power was restored to the RAC switch. The T3-4 Server database nodes were booted; Oracle was restarted and an automatic recovery was performed.
8. Step 1 was repeated, giving the ending count.
9. Consistency Test 3 was verified.
10. A sample from the success file was compared against the database.
11. The RTE report was used to determine the number of successful New-Order transactions. The difference between the

counts in Steps 1 and 9 was compared with the RTE count to verify that no committed transactions were lost.

3.4.2 Loss of Memory, Instantaneous Interruption, Power Loss, and Loss of Log

This test was executed by following these steps:

1. The total number of orders was determined by the sum of D_NEXT_O_ID from all rows in the district table; giving the beginning count.
2. The RTE was started with full user load.
3. The test was allowed to ramp up and ran in steady state for more than 5 minutes.
4. The test ran for a least one more minute.
5. The cable connecting one of the REDO COMSTAR heads to one of the database nodes is removed, thereby causing the loss of one-half of the mirrored log environment (loss of disk). Because the redo logs for the database node are mirrored across the REDO COMSTAR heads, the test continues to run without interruption.
6. The run continued for at least 5 minutes while maintaining steady state.
7. Power to one database node (T3-4 Server) was disconnected
8. The test was allowed to continue for at least one more minute.
9. A log switch was initiated on the remaining database nodes and automatic recovery of the failed node began.
10. Transaction generation from the RTE was interrupted.
11. A log switch checkpoint was performed on all remaining database nodes.
12. The database was shutdown and restarted. Oracle automatic recovery was initiated and completed.
13. Step 1 was repeated, giving the ending count.
14. Consistency Test 3 was verified.
15. A sample from the success file was compared against the database.
16. The RTE report was used to determine the number of successful New-Order transactions. The difference between the counts in Steps 1 and 11 was compared with the RTE count to verify that no committed transactions were lost.

3.4.3 Loss of Durable Media Containing Database Tables

This test can be executed on a small scaled database (at least 10%) under a reduced user load (at least 10%). The throughput is reaching at least 10% of the reported tpmC. When a reduced configuration is used, a target of 12% is recommended to avoid falling under the 10% threshold.

This test was executed by following these steps:

1. The total number of orders was determined by the sum of D_NEXT_O_ID from all rows in the district table; giving the beginning count.
2. The RTE was started with a reduced terminal load to use only 3 of the database nodes accounting for more than 10% of the reported throughput.
3. The test was allowed to ramp up and ran in steady state for more than 5 minutes.
4. The test was allowed to run for a least one more minute.
5. All cables between one DATA COMSTAR head and the Brocade DCX SAN switch was disconnected. This simulates the instantaneous loss of all of the devices on the DATA head.
6. The test was allowed to run until a fault was detected and transactions start reporting errors.
7. The RTE was shutdown. The RTE report was generated.
8. The failed DATA COMSTAR head was restored.
9. The database tables on the failed storage was restored from backup, overwriting the data, except for the logs.
10. The database was started and the roll-forward recovery (Oracle instance recovery) was executed.
11. Step 1 was repeated, giving the ending count.
12. Consistency Test 3 was verified.
13. A sample from the success file was compared against the database.
14. The RTE report was used to determine the number of successful New-Order transactions. The difference between the counts in Steps 1 and 12 was compared with the RTE count to verify that no committed transactions were lost.

4 Clause 4: Scaling and Database Population Related Items

4.1 Initial Cardinality of Tables

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

This database was built with 2,430,000 warehouses. The following tables shows the initial cardinality of the tables after table population, and the cardinality prior to the measurement run.

Table	*Initial Row Count*	*Row Count Prior to Measured Run*
Warehouse	2,430,000	2,430,000
District	24,300,000	24,300,000
Customer	72,900,000,000	72,900,000,000
History	72,900,000,000	78,655,854,351
Orders	72,900,000,000	78,916,814,964
New order	21,870,000,000	22,520,394,144
Order line	729,046,459,872	789,218,444,086
Stock	243,000,000,000	243,000,000,000
Item	100,000	100,000

Table 7: Table Cardinality

4.2 Database Layout

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

Refer to Section 0.4 Configuration Details for a description of the physical layout of the SUT. For each database node, its logs are mirrored across two separate REDO COMSTAR heads. Each REDO head contains the logs for two database nodes, except for redo27 and redo28, they contain the logs for database node 27 only. The physical setup of the REDO heads are described in detail in Section 0.4 REDO COMSTAR Heads Description (Logs).

The database tables are distributed across all of the DATA COMSTAR heads. The mapping of the database tables to the DATA heads are described in Mapping of Database below. The physical setup of the DATA heads are described in detail in Section 0.4 DATA COMSTAR Heads Description.

4.3 Type of Database

A statement must be provided that describes:

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

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

Oracle Database 11g Release 2 Enterprise Edition is a relational database management system. SQL stored procedures were invoked via the Oracle Call Interface (OCI). The application code appears in Appendix A.

4.4 Mapping of Database

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

All of the database tables are partitioned across the DATA heads. Each DATA head has 160 24GB SSD devices. A VTOC is loaded unto each SSD which creates 4 separate partitions. Oracle Solaris Volume Manager creates a RAID 0 stripe across all 160 devices for each partition. Soft partitions are created within each of the 4 partitions. These soft partitions are exported to the SAN and are visible to the database nodes. For the measured run, two of the soft partitions for iordr2 were swapped between two DATA COMSTAR heads after the durability testing was complete. This swap of the partition location does not jeopardize the durability of committed transactions nor does it change the number of soft partitions or the data stored in the tables, just the physical location of the soft partitions. The following table shows the distribution of the soft partitions for each DATA head to the database table.

Data Node	*cust*	*hist*	*icust1*	*icust2*	*iordr2*	*istok*	*misc*	*nord*	*ordr / ordl*	*stok*	*system*	*undo*
1	68	6	2	4	4	4	0	0	16	65	0	2
2	68	6	2	4	4	4	0	0	16	65	0	2
3	68	6	2	4	4	4	0	0	17	65	0	2
4	68	6	2	4	4	4	0	0	16	65	0	2
5	68	6	2	4	4	4	0	0	16	65	0	2
6	68	6	2	4	4	4	0	0	16	65	0	2
7	68	6	2	4	4	4	0	0	16	65	0	2
8	68	6	2	4	4	4	0	0	16	65	0	2
9	68	6	2	4	4	4	0	0	16	65	0	2
10	68	6	2	4	4	4	0	0	16	65	0	2
11	68	6	2	4	4	4	0	0	16	65	0	2
12	68	6	2	4	4	4	0	0	17	65	0	2
13	68	6	2	4	4	4	0	0	17	65	1	1
14	68	6	3	4	4	4	0	1	17	65	1	1
15	68	6	2	4	4	5	0	1	17	65	1	1
16	68	6	2	4	4	5	0	1	17	65	1	0
17	68	6	2	4	4	5	0	1	17	65	1	0
18	68	6	2	4	4	5	0	1	17	65	1	0
19	68	6	2	4	4	5	0	1	17	65	1	0
20	68	6	2	4	4	5	0	1	17	65	1	0
21	68	6	2	4	4	4	0	0	16	65	1	0
22	68	5	2	4	4	4	0	1	16	65	1	0
23	68	5	2	4	4	4	0	1	16	65	1	0
24	68	5	2	4	4	4	0	1	16	65	1	0
25	68	5	1	4	4	5	0	1	16	65	1	0
26	68	5	1	4	4	5	0	1	16	65	1	0
27	68	5	1	4	4	5	0	1	16	65	1	0
28	68	5	1	4	4	5	0	1	16	65	1	0
29	68	5	1	4	4	5	0	1	16	65	1	0
30	68	5	1	4	4	5	0	1	16	65	1	0
31	68	5	1	4	4	6	0	2	17	65	1	0
32	68	5	1	4	4	6	0	2	17	65	1	0
33	68	5	1	4	4	6	0	2	17	65	1	0
34	68	5	1	4	4	6	0	2	17	65	1	0
35	68	5	1	4	4	5	0	2	17	65	1	0
36	68	5	1	4	4	5	0	2	17	65	1	0
37	68	5	1	4	4	5	0	2	17	65	1	0
38	68	5	1	4	4	5	0	2	17	65	1	0
39	68	5	1	4	4	5	0	2	17	65	1	0
40	68	5	1	4	3	5	1	2	18	65	0	0
41	68	5	1	4	3	5	1	2	18	65	0	0
42	68	5	1	4	3	5	1	2	18	65	0	0

Data Node	cust	hist	icust1	icust2	iordr2	istok	misc	nord	ordr / ordl	stok	system	undo
43	68	5	1	3	3	5	1	2	19	65	0	0
44	68	5	1	3	3	5	1	2	19	65	0	0
45	68	5	1	3	3	5	1	2	19	65	0	0
46	68	5	1	3	3	5	1	2	19	65	0	0
47	68	5	1	3	3	5	1	2	19	65	0	0
48	68	5	1	3	3	5	1	2	19	65	0	0
49	68	5	1	3	3	5	1	2	19	65	0	0
50	68	5	1	3	3	5	1	2	19	65	0	0
51	68	5	1	3	3	5	1	1	18	65	0	0
52	68	5	1	3	3	5	1	1	18	65	0	0
53	68	5	1	3	3	5	1	1	18	65	0	0
54	68	5	1	3	3	5	1	1	18	65	0	0
55	68	4	2	3	3	5	1	1	18	65	0	0
56	68	4	2	3	3	5	1	1	18	65	0	0
57	68	4	2	3	3	5	1	1	18	65	0	0
58	68	4	2	3	3	5	1	1	18	65	0	0
59	68	4	2	3	3	5	1	1	18	65	0	0
60	68	4	2	3	3	5	1	1	18	65	0	0
61	68	4	2	3	3	5	1	1	18	65	0	0
62	68	4	2	3	3	5	1	1	18	65	0	0
63	68	4	2	3	3	5	1	1	18	65	0	0
64	68	4	2	2	3	5	1	2	18	65	0	0
65	68	4	2	2	3	5	1	2	18	65	0	0
66	68	4	2	2	3	5	1	2	18	65	0	0
67	70	4	2	2	2	6	0	2	18	64	0	0
68	70	4	2	2	2	6	0	2	18	64	0	0
69	70	4	2	2	2	6	0	2	18	64	0	0
Total	4698	351	109	243	243	334	27	81	1191	4482	27	27

Figure 4: Database Mapping

4.5 60 Day Space Computation

Details of the 60 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 (see Clause 4.2.3).

Warehouses	2,430,000				
tpmC	30,249,688				
		(MB)	(MB)	(MB)	(MB)
Table	**Rows**	**Table**	**Index**	**5% Growth**	**Total Space**
Warehouse	2,430,000	9,720	1,080	540	11,340
District	24,300,000	96,120	1,080	4,860	102,060
Item	100,000	40	40	4	84
Stock	243,000,000,000	67,878,906	5,072,900	3,647,590	76,599,397
Customer	72,900,000,000	71,269,531	5,216,400	3,824,297	80,310,228
New-Order	21,870,000,000	610,000	43,200	32,660	685,860
Orders	72,900,000,000	5,971,120	297,900		6,269,020
Order-Line	729,046,459,872	53,740,080	2,898,450		56,638,530
History	72,900,000,000	4,343,000	0		4,343,000
Overhead		276,592			276,592
Free Space	19,957,735				

Dynamic Space	67,250,550
Static Space	157,985,560
Daily Growth	13,394,622
Daily Spread	0
60 Days Storage Requirements	
60 Days (MB)	961,662,856
60 Days (GB)	939,124
8 Hours Log Storage	
8 Hours (GB)	308,635

Storage		**Measured**		**Priced**	
Disk Type	**Formatted Capacity(GB)**	**# of Disks**	**Capacity (GB)**	**# of Disks**	**Capacity (GB)**
F5100 1.92TB	22.88	11,040	252,595	11,040	252,595
2TB SAS	1,820	412	749,840	412	749,840
2TB SAS (Log RAID 10)	1,820	280	509,600	280	509,600
Total Capacity					1,512,035

Figure 5: 60 Day Space Calculations

5 Clause 5: Performance Metrics and Response Time Related Items

5.1 Measured tpmC

Measured tpmC must be reported.

The measured tpmC was 30,249,688

5.2 Response Times

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

Please refer the Numerical Quantities Section of the Executive Summary of this report for the Response Time values.

5.3 Keying and Think Times

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

Please refer the Numerical Quantities Section of the Executive Summary of this report for the Keying and Think Time values.

5.4 Response Time Frequency Distribution Curves

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

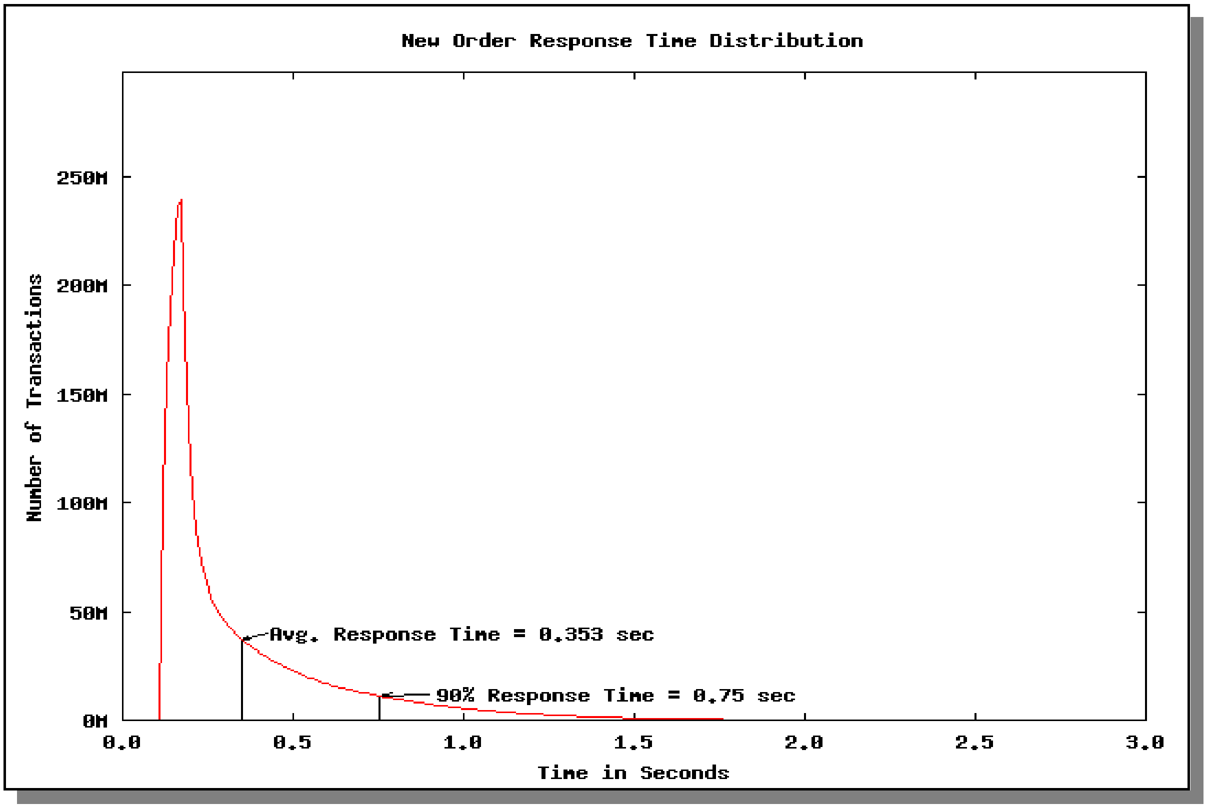

Figure 6: New-Order Response Time Distribution

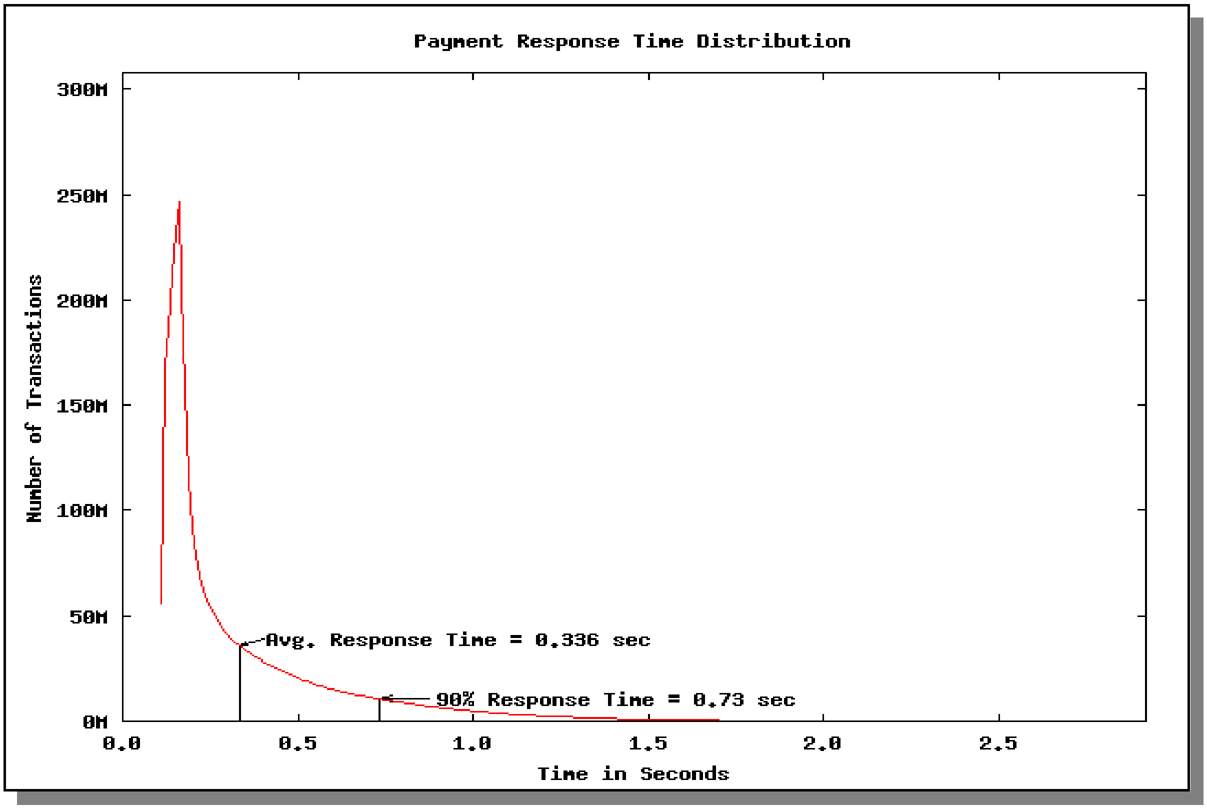

Figure 7: Payment Response Time Distribution

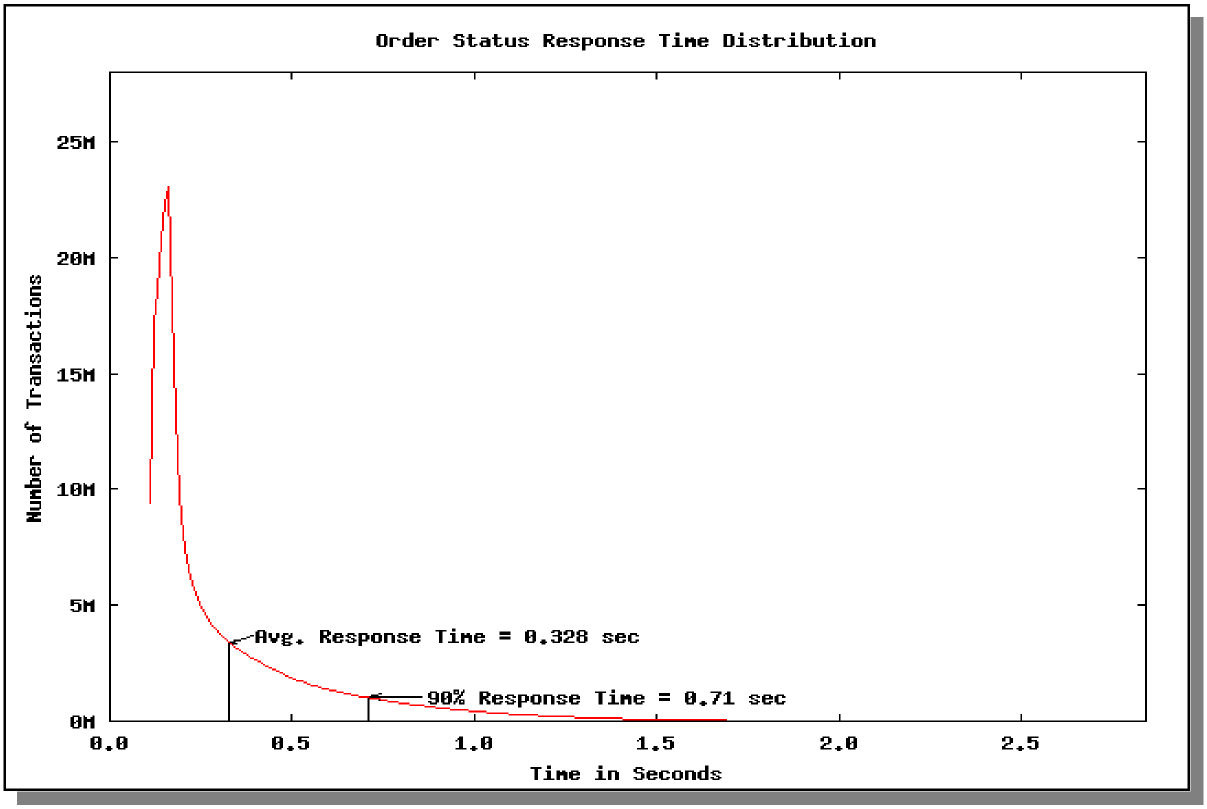

Figure 8: Order-Status Response Time Distribution

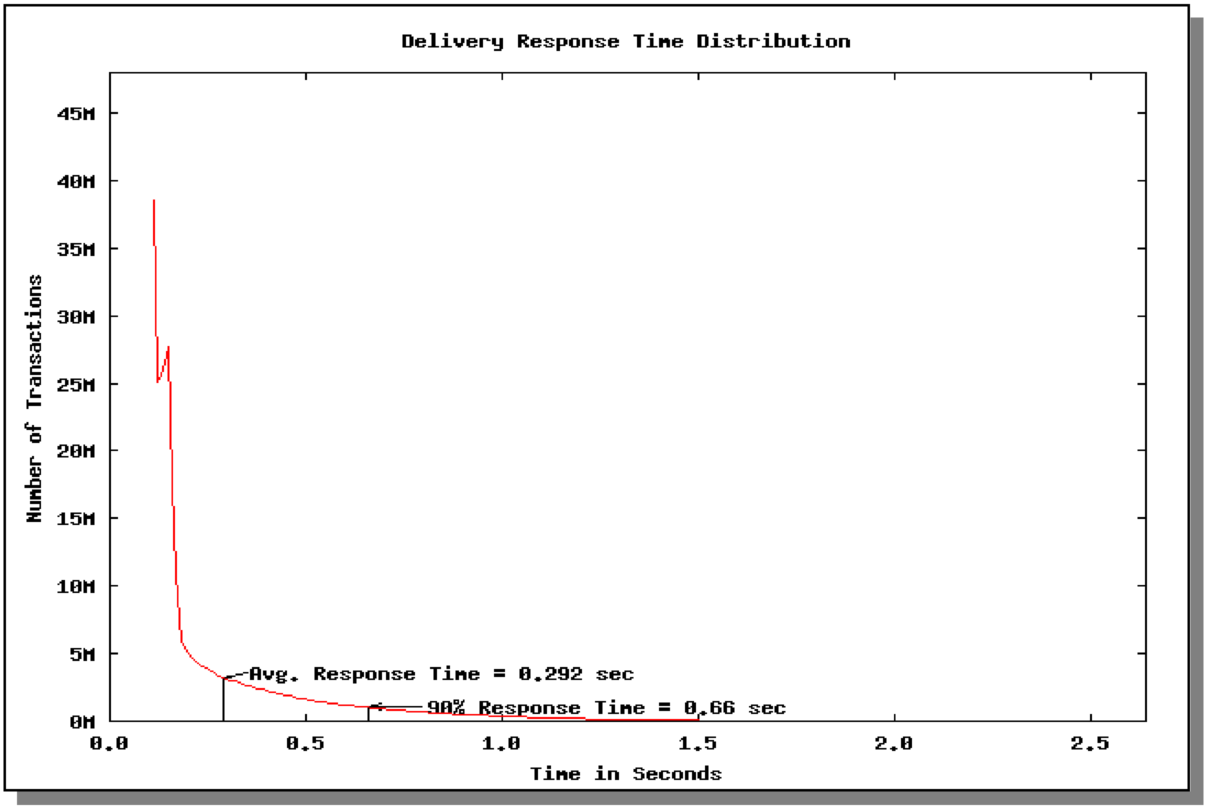

Figure 9: Delivery (Interactive) Response Time Distribution

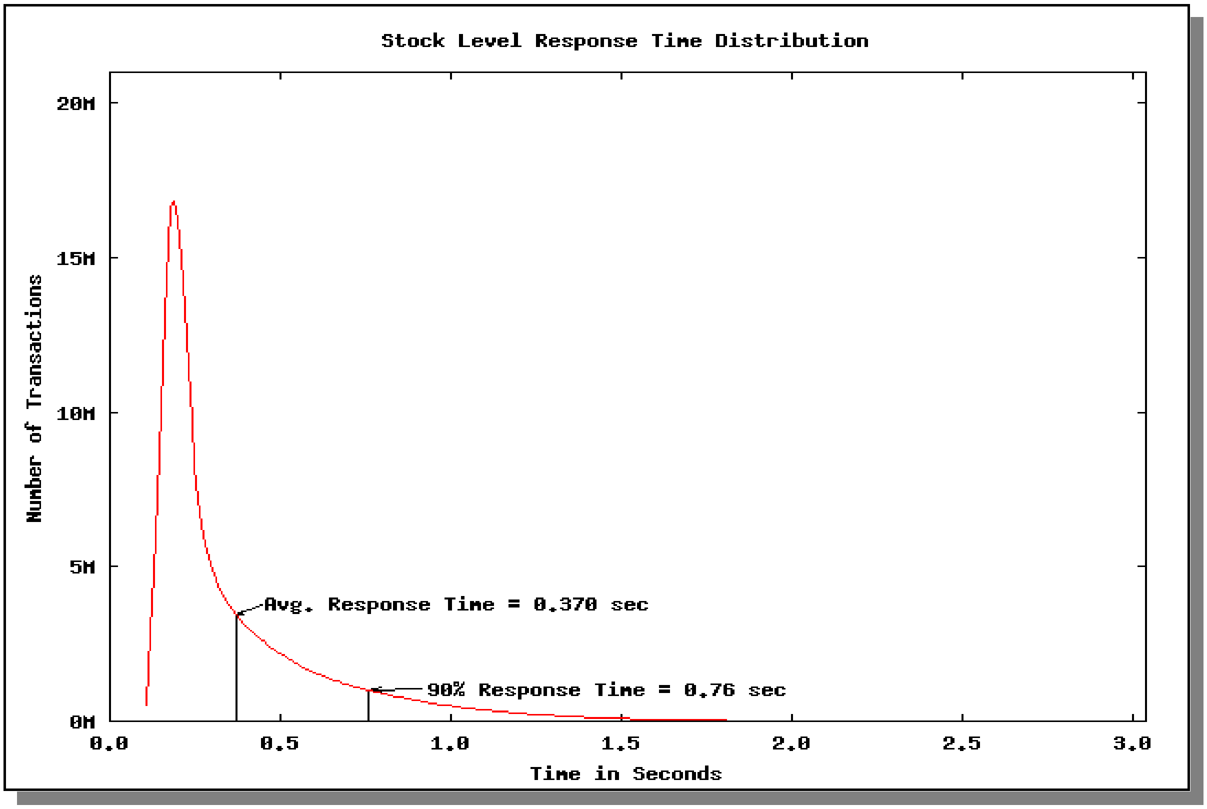

Figure 10: Stock-Level Response Time Distribution

5.5 Think Time Frequency Distribution

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

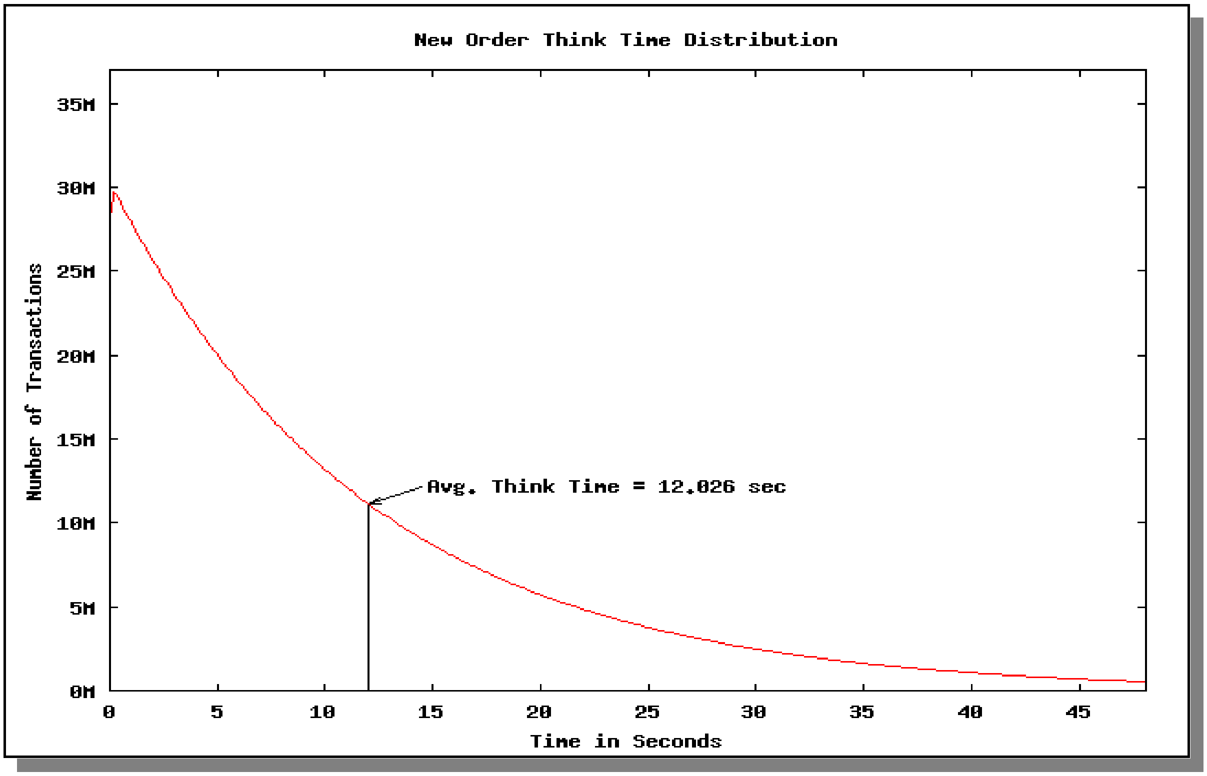

Figure 11: New-Order Think Time Distribution

5.6 Response Times versus Throughput

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

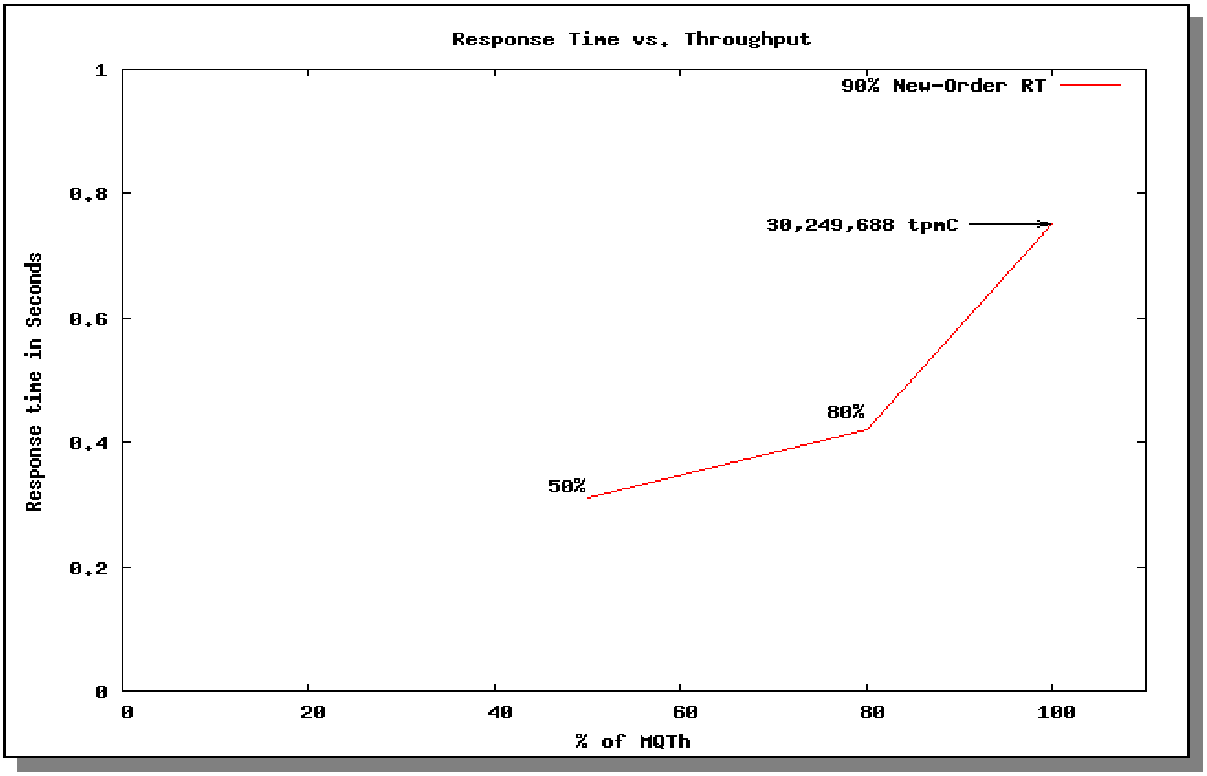

Figure 12: New-Order Response Time versus Throughput

5.7 Throughput versus Elapsed Time

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

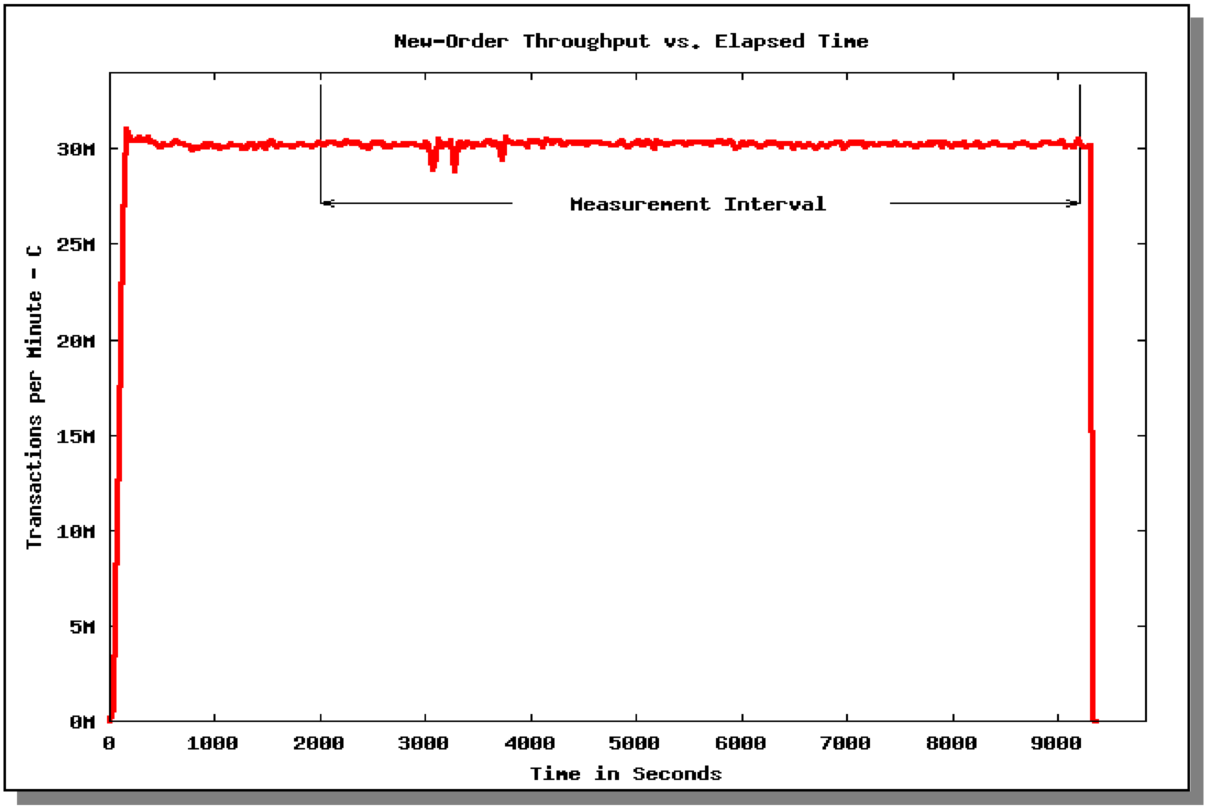

Figure 13: New-Order Throughput versus Time

5.8 Steady State Determination

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

The throughput was verified by examining the throughput (tpmC) graph reported at 30 second intervals for the duration of the benchmark.

5.9 Work Performed During Steady State

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

During the Test Run, emulated users submit TPC-C transactions according to the described mix, keying time and think times. The transactions are implemented in accordance with the requirements of the specification. An emulated user submits transaction input via HTTP and receives acknowledgment of the completed transaction. The response time is measured from the start of the transaction until the last byte is received by the RTE. Upon completion of a transaction, the RTE “thinks” for a randomly generated time period before selecting the next transaction. Upon selection of the next transaction to execute thru the Menu transaction, an emulated user delays for a period of time to simulate the rate of an individual inputing data. The transaction is submitted and the cycle continues until the Test Run completes.

During the execution of the transactions, Oracle maintains consistency of the database through the use of isolation properties that meet the requirements of the specification. Also, committed transactions are “logged” using Oracle's redo log functions. These logs ensure the system never loses any committed transactions. To ensure modified data pages are not left in memory for more than 30 minutes, Oracle implements an ongoing incremental checkpoint to flush modified pages to their respective tables on disk.

5.10 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 7,200 seconds (2 hours) long.

5.11 Transaction Mix Regulation

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

A weighted distribution algorithm was used by the RTE to regulate the transaction mix. Weights for the various transactions were assigned before the measurement started and adjustments automatically made periodically during the run to maintain the desired mix.

5.12 Transaction Mix

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

See Transaction Input Percentages and Mix table on page 30.

5.13 Percentage of New-Order Transactions

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

See Transaction Input Percentages and Mix table on page 30.

5.14 Number of Order-lines per New-Order

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

See Transaction Input Percentages and Mix table on page 30.

5.15 Percentage of Remote Order-lines per New-Order

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

See Transaction Input Percentages and Mix table on page 30.

5.16 Percentage of Remote Payments

The percentage of remote payment transactions must be disclosed.

See Transaction Input Percentages and Mix table on page 30.

5.17 Percentage of Non-Primary access by C_LAST for Payment and Order-Status

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

See Transaction Input Percentages and Mix table on page 30.

5.18 Percentage of Skipped Delivery Transactions

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

See Transaction Input Percentages and Mix table on page 30.

5.19 Checkpoints

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.

Oracle checkpoints ensure that modified data blocks are written to durable media. Oracle performs checkpoints in an incremental and continuous fashion in such a way that modified data blocks do not stay "dirty" in the shared memory longer than a specified duration.

Oracle controls checkpoints using one or combination of the following mechanisms:

- the redo log is filled to a specified capacity, causing a log switch
- the amount of data written to redo log reaches a value specified by log_checkpoint_interval

- the amount of the time since the last checkpoint reaches a value specified by log_checkpoint_timeout
- an explicit command
- maximum time to recover a crashed database instance, specified by fast_mttr_target

The parameter log_checkpoint_timeout is used to control checkpoints. log_checkpoint_timeout is set to 1700 seconds to guarantee that no data blocks are "dirty" for more than 1700 seconds in shared memory.

6 Clause 6: SUT, Driver and Communications Related Items

6.1 RTE Description

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 developed by Oracle and is proprietary. It consists of a master_rte program which creates a thread for each RTE session and controls the run. After the run completes, a separate report generator program collects all the log files and generates the final statistics of a run.

Inputs to the RTE include the names of the RTE machines to run on, client machines to attach to, the database scale, the ramp-up, measurement and ramp-down times. The main inputs to the RTE are as follows:

Input Type	*Value*
Ramp-up Duration	1,973 seconds
Ramp-Down Duration	247 seconds
Measurement Interval	7,200 seconds
Database Scale	2,430,000 warehouses
Total Users	24,300,000
Users/Driver	150,000
Number of RTEs	162
Client Ports	8080

Table 8: RTE Parameter Input

6.2 Lost Connections

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

The number of connections were counted when the RTE was first started and a count of the number of errors that occurred during the benchmark run were kept. There were no errors reported during the Measurement Interval, therefore no lost connections.

6.3 Emulated Components

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

In the configuration, workstations are connected to the clients via HTTP in the same way as the emulated system. The driver system emulates the workstations by making a direct connection to the SUT for each terminal.

6.4 Configuration 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 software and hardware functionality being performed on the Driver System, and its interface to the SUT must be disclosed (see Clause 6.6.3.6).

The Measured Configuration on page 26 details the configuration used during the measurement. The Priced Configuration on page 27 details the components that were priced. Refer to sections 6.1 and 6.3 above for a description of the emulated components of the Driver System.

6.5 Network Configuration

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

The measured configuration utilized 4 separate networks to administer, maintain, setup, and execute the TPC-C transactions. The first network is a 10GbE fibre network utilizing the Sun Network 10GbE Switch 72p. This is the backbone network for communicating between the T3-4 Server database nodes using Oracle Real Application Clusters and

Partitioning. Another separate network provides administration and support services between all of the T3-4 Servers, all of the X4270M2 COMSTAR heads, and the X4170M2 clients through a 1GbE network using 10 Netgear GS748T 48 port switches. The third network provides system console and service processor control for all of the above machines over a 1GbE through the same Brocade switches as the administration network. The last network is a 1GbE ethernet between the X4170M2 clients and the RTE. This RTE network provides the user and terminal emulation and therefore is not priced.

6.6 Operator Intervention

If the configuration requires operator intervention, the mechanism and the frequency of this intervention must be disclosed.

The SPARC SuperCluster configuration does not require any operator intervention to sustain the reported throughput for the 8 hour business day.

7 Clause 7: Pricing Related Items

7.1 Hardware and Software Component 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, release/revision level, and either general availability status or committed delivery date. If package-pricing is used, vendor part number of the package and a description uniquely identifying each of the components of the package must be disclosed. Pricing source(s) and effective date(s) of price(s) must also be reported.

A detailed price list is included as part of the Executive Summary included with this report. A third-party price quote from CDW is available in Appendix D.

7.2 Total Three Year Cost

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

Details of the pricing for all components used in this measurement are included in the Executive Summary at the beginning of this document. Oracle's discounts are based upon US list prices and for similar quantities and configurations. A discount of 50% has been applied to all Oracle hardware, software and services based on the total value and quantities of the components of the configuration, including full payment of all components and maintenance.

For assistance with any of these prices or their applicability to any customer's requirements please contact:

Mary Beth Pierantoni	mary.beth.pierantoni@oracle.com

7.3 Availability

*The Committed delivery date for general availability (availability date) of products used in the price calculations must be reported. The Availability Date must be reported on the first page of the Executive Summary and with a precision of one day. When the priced system includes products with different availability dates, the reported availability date for the priced system must be the date at which all **Components** are committed to be **Generally Available.** Each **Component** used in the **Priced Configuration** is considered to be Available on the Availability Date unless an earlier date is specified.*

All products will be available on June 1, 2011

7.4 Hardware and Software Support

Oracle's Premier Support for Systems consists of services in support of hardware systems, firmware, and software. For hardware systems this support is limited to Sun hardware only. For Oracle's Sun servers, this includes support for Oracle Solaris 10 09/10 and Oracle Solaris 11 Express. This support is for 24 hours a day, 7 days a week with a 4 hour response time.

Oracle Incident Server Support consists of software support for Oracle Database 11g Release 2, Oracle Real Application Clusters and Partitioning and Tuxedo CFS-R Tier 1 with a 4 hour response time, 24 hours a day, 7 days a week.

7.5 Statement of tpmC, Price/Performance

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

System	*tpmC*	*3-year System Cost*	*$/tpmC*	*Availability Date*
SPARC SuperCluster with T3-4 Servers	30,249,688	$30,528,863	$1.01	June 1, 2011

Table 9: Statement of tpmC and Price/Performance

7.6 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

The components for this configuration are priced using currency from the United States of America. All prices from Oracle are based upon US list prices.

7.7 Orderability Date

For each of the components that are not orderable on the report date of the FDR, the following information must be included in the FDR:

- *Name and part number of the item that is not orderable*
- *The date when the component can be ordered (on or before the Availability Date)*
- *The method to be used to order the component (at or below the quoted price) when that date arrives*
- *The method for verifying the price*

All components of this system under test are orderable as of the date of publishing. While all components are orderable immediately, the following components are not available until:

Product	***Availability Date***
Sun T3-4 Server	December 14, 2010
Oracle Database 11g Release 2 with Oracle Real Application Clusters and Partitioning for SPARC Solaris	June 1, 2011
Sun Storage F5100 Flash Array Firmware	June 1, 2011

Table 10: Orderability Dates

The pricing for the components does not change. Customers who purchase the components at the current versions will be eligible to download and install upgrades to the levels used in this measurement by the availability date.

8 Clause 8: Audit Related Items

8.1 Auditor's Report

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

The Auditor's Attestation Letter is included after the Executive Summary on page 4.

Appendix A: Application Source Code

tpccClient.c

```
/***
 *** tpccClient.c
 *** (c) 2000, 2001 Sun Microsystems, Inc.  All rights reserved.
 ***
 ***/

#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

#include <sys/types.h>
#include <sys/stat.h>
#include <errno.h>
#include <fcntl.h>

#include "tpccBool.h"
#include "tpcc.h"


BOOL bInitServer(WORKER *,int,int,BOOL);
BOOL bTuxInit(WORKER *pWorker);

BOOL bInitServer(WORKER * pWorker,int iTerminalId,int
iWorkerId,BOOL bProcess)
{
  pWorker->iWarehouseId = 0;
  pWorker->iDistrictId = 0;
  pWorker->iWorkerId = iWorkerId;
  pWorker->iTerminalId = iTerminalId;
  pWorker->uScreenId = 0;
  pWorker->iStatusId = 0;
  pWorker->bRequestForm = TRUE;
  pWorker->pTuxInData  = NULL;
  pWorker->pTuxOutData = NULL;
  pWorker->lTuxDataLen = 0;


  pWorker->pTpInf  = NULL;
  strcpy(pWorker->szErrorTxt,"");
  strcpy(pWorker->szWork,"");
  return(bTuxInit(pWorker));
}
```

tpccClient.h

```
#include <malloc.h>
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <signal.h>
#include <time.h>
#include <poll.h>
#include <thread.h>
#include <pthread.h>
#include <sys/timeb.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <errno.h>
#include <fcntl.h>

#include "tpccBool.h"
#include "tpcc.h"

#define BUFFER 0
#define PLUGIN_DIR "/usr/netscape/server4/plugins"
#define PLUGIN_URL "/tpcc"
#define PLUGIN_OBJ "tpccApp.so"

BOOL bInitServer(WORKER *,int,int,BOOL);
```

tpccTux.c

```
/***
 *** tpccTux.c
 *** (c) 2006 Sun Microsystems, Inc.  All rights reserved.
 ***
 *** This file handles the entry points for calling BEA tuxedo
 *** As perf Mar 4, 2009 pre-audit: changes for interactive compliance
 ***
 ***
 ***/
#include <stdio.h>
#include <errno.h>
#include "tpccBool.h"
#include "tpccTux.h"
#include "tpcc.h"
#include "nsapi.h"
#define TXERRCODE -100
static const char *newo_service  = NEWORDER;
static const char *paym_service  = PAYMENT;
static const char *ords_service  = ORDERSTATUS;
static const char *del_service   = DELIVERY;
static const char *stock_service = STOCKLEVEL;

BOOL bTuxIOInit(WORKER *pWorker)
{
        BOOL eStatus = FALSE;
        int ret;

        if((pWorker->pTpInf = (TPINIT *)tpalloc("TPINIT", NULL,
                                TPINITNEED(0))) == NULL)
        /* if((pWorker->pTpInf = (TPINIT *)tpalloc("TPINIT", NULL,
                                        sizeof(TPINIT))) == NULL) */
        {
                if(tperrno == TPEOS)
                {
                        sprintf(pWorker->szErrorTxt, "tpalloc
failed in bTuxIOInit. TxErrno = %d Unix-Error = %d", tperrno, Uunixerr);
                }
                else
                {
                        sprintf(pWorker->szErrorTxt, "tpalloc
failed in bTuxIOInit. TxErrno = %d", tperrno);
                }
                ereport(LOG_FAILURE," %s Tperrno = %d,
%s\n",pWorker->szErrorTxt, tperrno, tpstrerror(tperrno));
       ret = tperrordetail(0);
                if(ret == -1) {
                        ereport(LOG_FAILURE, "tperrodetail()
failed!\n");
                    ereport(LOG_FAILURE, "Tperrno = %d, %s\n",
tperrno, tpstrerror(tperrno));
                }
                else if (ret != 0) {
                        ereport(LOG_FAILURE, "errordetail:
%s\n",
                                        tpstrerrordetail( ret,
0));
                }
                return(TRUE);
        }

        pWorker->pTpInf->flags = TPMULTICONTEXTS;
        pWorker->pTpInf->datalen = 0;

        if(tpinit(pWorker->pTpInf) == -1)
        {
       ereport(LOG_FAILURE," bTuxIOInit: tpinit failed\n");
       ret = tperrordetail(0);
                if(ret == -1) {
                        ereport(LOG_FAILURE, "tperrodetail()
failed!\n");
                        ereport(LOG_FAILURE, "Tperrno = %d,
%s\n", tperrno, tpstrerror(tperrno));
                }
                else if (ret != 0) {
                        ereport(LOG_FAILURE, "errordetail:
%s\n",
                                        tpstrerrordetail( ret,
0));
                }

                if(tperrno == TPEOS)
                {
                        sprintf(pWorker->szErrorTxt, "tpinit failed
in bTuxIOInit. TxErrno = %d Unix-Error = %d", tperrno, Uunixerr);
                }
                else
                {
                        sprintf(pWorker->szErrorTxt, "tpinit failed
in bTuxIOInit. TxErrno = %d", tperrno);
                }
                tpfree((char *)pWorker->pTpInf);
                pWorker->pTpInf = NULL;
       ereport(LOG_FAILURE," bTuxIOInit: tpinit failed returning -
%s \n", pWorker->szErrorTxt);

                return(TRUE);
```

```
    }

    if(tpgetctxt(&pWorker->tpxContext, 0) == -1)
    {
        sprintf(pWorker->szErrorTxt, "tpgetctxt failed in
bTuxIOInit. TxErrno = %d", tperrno);
        eStatus = TRUE;
    }
    if(tpsetctxt(pWorker->tpxContext, 0) == -1)
    {
        sprintf(pWorker->szErrorTxt, "tpsetctxt failed in
bTuxIOInit. TxErrno = %d", tperrno);
        eStatus = TRUE;
    }

    return(eStatus);
}

/* This currently is NOT used */
BOOL bTuxIOTerm(WORKER *pWorker)
{
    BOOL eStatus = FALSE;
    if(pWorker->pTpInf != NULL)
    {
        tpfree((char *)pWorker->pTpInf);
        pWorker->pTpInf = NULL;
    }
    tpterm();
    return(FALSE);
}

/* This function makes LIVE calls to the Tuxedo servers (Back end)
 ** inputs:
 **   szService - String (i.e. NEWO) representing what will be exec'd.
 **   pWorker -- the WORKER struct assigned to the current thread.
 **      contains pointers to input/output data.
 **
 ** outputs:
 **   pbTPRslt - Result status DUPLICATE of RETURN
 **   piTPRslt - pointer to tperrno value.
 **   BOOL return value: 0/FALSE ok;  !0 error
 */
BOOL bTuxTran(char *szService, WORKER *pWorker, BOOL *pbTPRslt,
int *piTPRslt)
{
    long lOlen = pWorker->lTuxDataLen;
    char      *tuxibuf = (char *)(pWorker->pTuxInData);
    BOOL eStatus = FALSE;

    if(strcmp(szService, DELIVERY) == 0)
    {
        if(tpacall(del_service,
                tuxibuf,
                pWorker->lTuxDataLen,
                TPSIGRSTRT|TPNOREPLY)
== -1)
        {
            if (tperrno == TPEOS)
            {
                sprintf(pWorker->szErrorTxt,
                "del tpcall failed.tperrno=
%d,Uunixerr = %d",
                tperrno, Uunixerr);
                eStatus = TRUE;
            }
            else
            {
                sprintf(pWorker->szErrorTxt,
                "del tpcall failed.tperrno=
%d",tperrno);
                eStatus = TRUE;
            }
        }
    }
    else
    {
        if(tpcall(szService,
                tuxibuf,
                pWorker->lTuxDataLen,
                (char **)&(pWorker-
>pTuxOutData),

                &lOlen, TPSIGRSTRT|
TPNOTIME) == -1)
        {
            if (tperrno == TPEOS)
            {
                sprintf(pWorker->szErrorTxt,
                "%s tpcall failed.tperrno=
%d,Uunixerr = %d",
                szService, tperrno, Uunixerr);
                eStatus = TRUE;
            }
            else
            {
       if(strcmp(szService, NEWORDER) == 0) {
         NEWO_INF *pnew = (NEWO_INF *)pWorker-
>pTuxOutData;
         if(pnew->status[0] == 'I') {
/*This is Bad ItemId */
           eStatus = FALSE;
           *piTPRslt = SVC_BADITEMID;
           *pbTPRslt = TRUE;
           goto xIt;
         }
       }
                sprintf(pWorker->szErrorTxt,
                "%s tpcall failed.tperrno=%d",
                szService, tperrno);
                eStatus = TRUE;
            }
        }
    }

    *piTPRslt = tperrno;
    *pbTPRslt = eStatus;
xIt:
    return(eStatus);
}

BOOL bTuxInit(WORKER *pWorker)
{
    int iMaxLen = 0;
    if(sizeof(NEWO_INF) > iMaxLen)
    {
        iMaxLen = sizeof(NEWO_INF);
    }
    if(sizeof(PAY_INF) > iMaxLen)
    {
        iMaxLen = sizeof(PAY_INF);
    }
    if(sizeof(ORD_INF) > iMaxLen)
    {
        iMaxLen = sizeof(ORD_INF);
    }
    if(sizeof(DEL_INF) > iMaxLen)
    {
        iMaxLen = sizeof(DEL_INF);
    }
    if(sizeof(STOCK_INF) > iMaxLen)
    {
        iMaxLen = sizeof(STOCK_INF);
    }
    if(pWorker->pTuxInData == NULL)
    {

        if((pWorker->pTuxInData = (char
*)tpalloc("CARRAY", NULL,
                iMaxLen * (sizeof(char)))) ==
NULL)
        {
            if(tperrno == TPEOS)
    {
                sprintf(pWorker->szErrorTxt,
"tpalloc failed in bTuxInit. TxErrno = %d Unix-Error = %d", tperrno,
Uunixerr);
            }
            else
            {
                sprintf(pWorker->szErrorTxt,
"tpalloc failed in bTuxInit. TxErrno = %d", tperrno);
            }
            return(TRUE);
        }
    }
    if(pWorker->pTuxOutData == NULL)
    {
        if((pWorker->pTuxOutData = (char
*)tpalloc("CARRAY", NULL,
                iMaxLen * (sizeof(char)))) ==
NULL)
        {
            if(tperrno == TPEOS)
            {
                sprintf(pWorker->szErrorTxt,
```

```
"tpalloc failed in bTuxInit. TxErrno = %d Unix-Error = %d", tperrno,
Uunixerr);
            }
            else
            {
                sprintf(pWorker->szErrorTxt,
"tpalloc failed in bTuxInit. TxErrno = %d", tperrno);
            }
            tpfree((char *)pWorker->pTuxInData);
            pWorker->pTuxInData = NULL;
            pWorker->pTuxOutData = NULL;
            return(TRUE);
        }
    }
    return(FALSE);
}

BOOL bTuxTerm(WORKER *pWorker)
{
    if(pWorker->pTuxInData != NULL)
    {
        tpfree((char *)pWorker->pTuxInData);
    }
    if(pWorker->pTuxOutData != NULL)
    {
        tpfree((char *)pWorker->pTuxOutData);
    }
    pWorker->pTuxInData = NULL;
    pWorker->pTuxOutData = NULL;
    return(FALSE);
}
```

tpccTux.h

```
#ifndef __TPCCTUXH__
#define __TPCCTUXH__
#include <atmi.h>           /* TUXEDO */
#include <Uunix.h>          /* TUXEDO */
#include <userlog.h>        /* TUXEDO */
#include "tpcc.h"
#include "tpccBool.h"
BOOL bTuxTerm(WORKER *);
BOOL bTuxInit(WORKER *);
BOOL bTuxIO(char *szService, WORKER *pTPCC, BOOL *pbTPRslt, int
*piTPRslt);
BOOL bTuxIOInit(WORKER *);
BOOL bTuxIOTerm(WORKER *);
BOOL bTuxTran(char *szService, WORKER *pWorker, BOOL *pbTPRslt,
int *piTPRslt);
#endif
```

tpccDiag.c

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include "tpccDiag.h"
#include "tpccBool.h"
#include "tpccConst.h"
#include "nsapi.h"
uint uDiagLevel;
char *pDiagHdr;
char *pErrHdr = {"*** TPCC Application Encounterd An Error ***"};
void vDiagInit(char * pDiagId)
{
    char *pszEnvData;
    if(DIAGNOSTICS)
    {
        if((pszEnvData = getenv("DIAGLEVEL")) == NULL)
        {
            uDiagLevel = DEFAULTDIAGLEVEL;
        }
        else
            uDiagLevel = abs(atoi(pszEnvData));
        if(uDiagLevel == 0)
        {
            uDiagLevel = DIAG_ERROR;
        }
        pDiagHdr = (char *) malloc(strlen(pDiagId) + 1);
        strcpy(pDiagHdr,pDiagId);
    }/* if Diagnostics*/
}/*vDiagInit*/

void vDiagTerm(void)
{
    if(DIAGNOSTICS)
    {
        free(pDiagHdr);
    }
}/*vDiagTerm*/

void vDiagWrite(char * pDiagBuffer, uint uSeverity)
{
    char *pDMsgs[3];
    uint uMsgCnt = 0;
    int  iERslt = 0;
    if(DIAGNOSTICS)
    {
        if (uDiagLevel >= uSeverity)
        {
            if (uSeverity == DIAG_ERROR)
            {
                pDMsgs[0] = pDiagHdr;
                pDMsgs[1] = pErrHdr;
                pDMsgs[2] = pDiagBuffer;
                uMsgCnt = 3;
            }
            else
            {
                pDMsgs[0] = pDiagHdr;
                pDMsgs[1] = pDiagBuffer;
                uMsgCnt = 2;
            }
            if(uMsgCnt == 3)
            {
            ereport(LOG_FAILURE,"\n%s:%s\n%s",

    pDMsgs[0],pDMsgs[1],pDMsgs[2]);
            }
            else
            {
                ereport(LOG_FAILURE,"\n%s:
%s",
                pDMsgs[0],pDMsgs[1]);
            }
        }/* if uDiagLevel >= uSeverity*/
    }/* if Diagnostics*/
}/*vDiagWrite*/
```

tpccDiag.h

```
#ifndef __TPCCDIAGH__
#define __TPCCDIAGH__
#include <sys/types.h>
void vDiagInit(char * pDiagId);
void vDiagTerm(void);
void vDiagWrite(char * pDiagBuffer, uint uSeverity);
#endif
```

tpccNsapi.c

```
/***
 *** tpccNsapi.c
 *** (c) Sun Microsystems, Inc.  All rights reserved.
 ***
 *** This file handles the entry points for the initialization and service
 *** routines of the TPC-C plugin for the iPlanet Web Server.
 ***
 ***  Modifications made from Review by Pallab Bhattacariya - March 29,
2001
 ***    DJC
 ***  Change to add NULL termination to the Request data read by the
server.
 *** - April 5     DJC
 ***
 ***/
#include <sys/types.h>
#include <sys/time.h>

#include "nsapi.h"
#include "tpccBool.h"
#include "tpcc.h"
#include "tpccClient.h"
#include "tpccTux.h"
#include "tpccDiag.h"
#include "tpccService.h"

/*
 * string containers for the plugin paths
 */
char szPluginPath[128];

static int iMaxWorkers;
BOOL bMinTidSet = FALSE;



/* The following are to manage a protected index to the worker array */
```

```
static mutex_t      mtThrPvt;
static cond_t ctIDCond;
static int iThrPvtCtr = 0;
static int *iFreeThrd;
static int iFreeCount;

static thread_key_t wKey;
static WORKER **ppWorker;

/*
 * Start time of thread
 */
static unsigned int uiStartSec;

void fKeyDestructor(void *vWorker)
{
                bTuxTerm((WORKER *)vWorker);
                free(vWorker);
}

/**
 ** GetMyHandle takes in the NSAPI Request struct, which contains the
current
 ** (next) available thread ID in the iWS thread pool.
 **
 **/
#define THREAD_EXTRA 10
WORKER *GetMyHandle(Request *rq)
{
                int iThrId  = -1;
                int iIndex = -1;
                WORKER *pWorker = (WORKER *)NULL;
                char *pszReq  = NULL;
                int found =0;
        int attempts = 0;

  /* Get next free worker - Use a round robin - try to get equal use on all the
connects */
    mutex_lock(&mtThrPvt);
   /* Get the data-struct index for this thread */
    /*          iIndex = thr_self();  Not done anymore
                */

      while (iFreeCount == 0) {
              cond_wait(&ctIDCond,&mtThrPvt);
               if (iFreeThrd[iThrId=iThrPvtCtr])
                  goto done;
      }
      if (iThrPvtCtr == iMaxWorkers)
      {
         iThrPvtCtr = 0;
      }

      found = 0; attempts = 0;
      while (! found) {
        iThrId = iThrPvtCtr++;
        if (!iFreeThrd[iThrId])
        {
                if(iThrPvtCtr == iMaxWorkers)
         {
                    attempts++;
                            if (attempts == 2)                {
                              ereport(LOG_FAILURE, "1 Thread %d from Pvt
IndexId %d > %d\n", iThrId, iFreeCount, iMaxWorkers);
                              ereport(LOG_FAILURE, "1 too many attempts
-shouldn't happen -  EXITING NOW\n");
               mutex_unlock(&mtThrPvt);
                              return NULL;
            }
            iThrPvtCtr = 0;
                }
          continue;
        }

               break;
      }
done:
      iFreeThrd[iThrId]=0;  /* This worker is not free anymore */

   iFreeCount--;
   mutex_unlock(&mtThrPvt);




              pWorker = ppWorker[iThrId];
              pWorker->uiThrId = iThrId;

              return(pWorker);


}

WORKER *initHandle(unsigned int uiThrId)
{
                WORKER *pWorker;
                if((pWorker = (WORKER *)malloc(sizeof(WORKER))) ==
NULL)
                {
                                ereport(LOG_FAILURE, "Malloc State");
                                return NULL;
                }

                memset(pWorker, 0, sizeof(WORKER));
                pWorker->pTuxInData = NULL;
                pWorker->pTuxOutData = NULL;
                strcpy(pWorker->szErrorTxt,"");
                pWorker->iStatusId = STATUS_OK;
                pWorker->uiThrId = uiThrId;
                /*
                 * Initialize the worker data structure.
                 */
                if(bInitServer(pWorker,uiThrId,uiThrId,FALSE))
                {
                                ereport(LOG_FAILURE, pWorker->szErrorTxt);
                                free(pWorker);
                                return NULL;
                }
                /*
                 * Initialize Tuxedo connection for this thread with tpinit()
                 * call.
                 */

                if(bTuxIOInit(pWorker))
                {
                                ereport(LOG_FAILURE, pWorker->szErrorTxt);
                                free(pWorker);
                                return NULL;
                }
                return pWorker;
}

/*
 * GetTime() gets the duration passed since the uiStartSec.  Called by
 * TpccService().
 */
static unsigned int GetTime(void)
{
        struct timeval tmNow;

        gettimeofday(&tmNow, (char *)NULL);
        return (((tmNow.tv_sec - uiStartSec) * 1000) + tmNow.tv_usec/1000);
}

/**
 ** TpccInit() is defined as the initialization routine in the server
 ** instance's obj.conf configuration file.
 **
 ** This function reads in the "max-workers" parameter from the TpccInit
 ** section of the obj.conf, which defines the total number of WORKER
 ** structures that the plugin will create and use for the duration of the
 ** server instance's existence.
 **
 ** The input and return variables are assigned according to the NSAPI
 ** specification.
 **
 **/

/* This is kind of a hack to buffer UP the number of worker threads in order
 *  to work with the thread id's that get returned in get my handle.
 */

NSAPI_PUBLIC int TpccInit(pblock *pb, Session *sn, Request *rq)
{
        struct timeval tmNow;

                int iLoop;

     mutex_init(&mtThrPvt, USYNC_THREAD, NULL);
     cond_init(&ctIDCond, USYNC_THREAD, NULL);

                if(thr_keycreate(&wKey, fKeyDestructor) != 0)
                {
                                ereport(LOG_FAILURE, "Global Key State Failed");
```

```
                        return(REQ_ABORTED);
                }

                /*
                 * Get current time
                 */
        gettimeofday(&tmNow, (char *)NULL);
        uiStartSec =  (tmNow.tv_sec  * 1000) + tmNow.tv_usec/1000;

                /*
                 * pblock_findval is an NSAPI call; this call determines max-
workers
                 * in obj.conf
                 *  NOTE: make this value HIGHER then rqThrottle for worker
sizing.
                 */
                iMaxWorkers = atoi(pblock_findval("max-workers", pb));

                ereport(LOG_INFORM, "TpccInit: Finished initializing %d
workers [ tpccApp.so.] with LIVE TUXEDO/DB backend\n", iMaxWorkers);

                sprintf(szPluginPath, "%s", PLUGIN_URL);

                return REQ_PROCEED;
}

static void freeWorker (int iThrId)
{
    mutex_lock(&mtThrPvt);
     iFreeThrd[iThrId]=1;    /* free now */
     if(iFreeCount == 0)
     {
       iThrPvtCtr = iThrId;
     }
     iFreeCount++;
     cond_signal(&ctIDCond);
    mutex_unlock(&mtThrPvt);
    return;
}

/**
 ** TpccService() is defined as the service routine in the server
 ** instance's obj.conf configuration file.
 **
 ** The input and return variables are assigned according to the NSAPI
 ** specification.
 **
 **/
NSAPI_PUBLIC int TpccService(pblock *pb, Session *sn, Request *rq)
{
                int iTid;
                int iReqContentLen=0;
                int iLen=0;

                int return_value;
                char szReturnLength[8];
        /*following 2 moved to WORKER struct*/
                char *pszRequestData;
                char *pszReturnData;
                char *pszReqMethod;

                unsigned int  uiStartReadTime;
                unsigned int  uiEndReadTime;
                unsigned int  uiStartWriteTime;
                unsigned int  uiEndWriteTime;

                int iHtmlLen = 0;
                unsigned int uiStatus;
                WORKER *pWorker;


                /*
                 * Gets the worker assigned to this iWS thread (defined in rq).
                 */
                if(thr_getspecific(wKey, (void **)&pWorker))
                {
                                ereport(LOG_FAILURE, "Invalid Key State");
                                return REQ_ABORTED;
                }
                if(!pWorker)
                {
                                if((pWorker = initHandle((unsigned int)thr_self())) ==
NULL)
                                {
                                                ereport(LOG_FAILURE, "Bad Handle
State");
                                                return REQ_ABORTED;
                                }
                                if(thr_setspecific(wKey, pWorker))
                                {
                                                ereport(LOG_FAILURE, "Cannot Preserve
My Handle %d\n", thr_self());
                                                return (REQ_ABORTED);
                                }
                }
                pszRequestData  = pWorker->szRequestData;
                pszReturnData   = pWorker->szReturnData;

                /*
                 * Set the default protocol status to 200 (okay).  May get changed
later
                 * on error.  (There is a second setting for this at the end of this
                 * function -- this one is likely premature and redundant.
                 * -- grog/20010507)
                 */

                protocol_status(sn, rq, PROTOCOL_OK, NULL);

                /*
                 * Force the return content's MIME type to text/html.
                 */
                param_free(pblock_remove("content-type", rq->srvhdrs));
                pblock_nvinsert("content-type", "text/html", rq->srvhdrs);

                /*
                 * Determine the HTTP method used in the transaction.  For our
                 * purposes, it should be either GET or POST.
                 */
                pszReqMethod = pblock_findval("method", rq->reqpb);
                /*
                 * If the method was GET, then there is no content data expected,
as
                 * defined by the HTTP RFCs.  Force the szRequestData to be
empty,
                 * which will signal to uiServiceRequest that this is a login
                 * transaction.
                 */
                if (!strncmp(pszReqMethod, "GET", 3))
                {
                                strcpy(pszRequestData, "");
                }

                /*
                 * If the method was POST, then we need to capture the query
string
                 * send in the content field of the POST transaction.
                 */
                else if (!strncmp(pszReqMethod, "POST", 4))
                {
                                int iReadLength;
                                int iLen;
                                netbuf *nbuf;

                                /*
                                 * Determine the length of the POST query.  This is
defined
                                 * by the HTTP "Content-type" header value.
                                 */
                                iLen = iReqContentLen =
atoi(pblock_findval("content-length",
                                      rq->headers));

                                /*
                                 * nbuf is a locally defined structure of the NSAPI
netbuf
                                 * type.  The structure contains position, size, and other
                                 * parameters relevant to the incoming data.
                                 */
                                nbuf = sn->inbuf;

                                /*
                                 * iReadLength is set to the length of the buffer (so
far).
                                 */
                                iReadLength = nbuf->cursize - nbuf->pos;

                                /*
                                 * Get any data sitting in the buffer.
                                 */
                                if (iReadLength)
                                {
                                                /*
                                                 * If iReadLength is longer than the actual
POST
```

```
			 * query's defined length, we force it to be that
			 * size to avoid reading more than we should.
			 */
			if (iReadLength > iReqContentLen)
			{
				iReadLength = iReqContentLen;
			}

			/*
			 * Copy in the buffer data and advance the buffer
			 * pointer.
			 */
			(void) memcpy(pszRequestData, nbuf->inbuf + nbuf->pos,
			    iReadLength);
			nbuf->pos += iReadLength;
		}

		/*
		 * If we haven't read in all of the data, we will need to read
		 * more data from the socket.
		 */
		if (iReadLength < iLen)
		{

			/*
			 * We need to redefine the length to be read, iLen,
			 * to be the remainder.  Hence we subtract iReadLength,
			 * the amount read so far, from iLen, which was
			 * initially set to the full length of the query
			 * string.
			 *
			 * Then read the remainder, starting from the pointer
			 * position offset by iReadLength.
			 */
			iLen -= iReadLength;
			iReadLength = net_read(sn->csd,
			    pszRequestData + iReadLength, iLen, 10);

			/*uiEndReadTime = GetTime();*/

			/*
			 * If the query was not completely read, abort
			 * servicing the HTTP request.
			 */
			if (iReadLength != iLen)
			{
				ereport(LOG_INFORM, "POST read failed\n");
				freeWorker(pWorker->uiThrId);
				return (REQ_ABORTED);
			}
		}
	}
	/*
	 * end POST
	 */

	/*
	 * The request data is not terminated by a NULL always - do it just
	 * in case: DJC.
	 */
	pszRequestData[iReqContentLen] = '\0';

	/*
	 * Call uiServiceRequest(), which processes the HTTP request.
	 *
	 * This function takes the data in szRequestData (the query string,
	 * which is empty if it's GET-based login) and returns szReturnData,
	 * of length iHtmlLen.  szReturnData contains the HTML source to be
	 * returned to the requestor.
	 */
	uiStatus = uiServiceRequest(pWorker, pszRequestData, pszReturnData, &iHtmlLen);
	/*
	 * Force the Content-length: header value to be the length of the
	 * HTML generated from uiServiceRequest()
	 */
	param_free(pblock_remove("content-length", rq->srvhdrs));
	pblock_nninsert("content-length", iHtmlLen, rq->srvhdrs);

	/*
	 * NSAPI call to set the return status to successful (200).
	 */
	protocol_status(sn, rq, PROTOCOL_OK, NULL);

	/*
	 * Set the return value which will signal iWS to send the request.
	 */
	return_value = protocol_start_response(sn,rq);


	if (return_value == REQ_NOACTION)
	{
		ereport(LOG_INFORM, "TpccService:  NOACTION - start response saw request method HEAD?\n");
		return REQ_PROCEED;
	}
	/* uiStartWriteTime = GetTime(); */
	return_value = net_write(sn->csd, pszReturnData, iHtmlLen);
	/*		uiEndWriteTime = GetTime(); */

	if (return_value == IO_ERROR)
	{
		ereport(LOG_INFORM, "TpccService:  REQ_EXIT - start response returned IO_ERROR?\n");
		return REQ_EXIT;
	}
	return REQ_PROCEED;
}
```

tpccService.c

```
/***
 *** tpccService.c
 *** (c) 2000, 2001 Sun Microsystems, Inc.  All rights reserved.
 ***
 *** This file handles the entry points for the initialization and service
 *** routines of the TPC-C plugin for the iPlanet Web Server.
 ***
 *** For best readability, set tab size to 8 spaces.
 *** As perf Mar 4, 2009 pre-audit: changes for interactive compliance
 ***   Mar 2009  DJC - upgrade Short-->Int
 ***/



#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
#include "tpccDiag.h"
#include "tpccService.h"
#include "tpccTux.h"
#include "nsapi.h"

/*
 * Each "screen" (or page) has a unique screen ID.
 * Value is stored in pWorker->iScreenId.
 */
#define SCREEN_NULL		0
#define SCREEN_LOGON		1
#define SCREEN_MENU		2
#define SCREEN_NEWORDER		3
#define SCREEN_PAYMENT		4
#define SCREEN_DELIVERY		5
#define SCREEN_ORDERSTATUS 6
#define SCREEN_STOCKLEVEL	7
#define SCREEN_EXIT		8
#define SCREEN_MAX		9

/*
 * These values are set based on the value for the CMD= name tag.
 * Returned from uiExtractCmd()
 */
#define CMD_EXECUTE			1
#define CMD_NEWORDER_SCREEN		2
#define CMD_PAYMENT_SCREEN		3
#define CMD_DELIVERY_SCREEN		4
#define CMD_ORDERSTATUS_SCREEN	5
#define CMD_STOCKLEVEL_SCREEN	6
#define CMD_EXIT			7
```

```
#define CMD_SUBMIT              8
#define CMD_MENU_SCREEN         9
#define CMD_MAX                 10

/*
 * The following ALT_ constants are used to calculate empty values in name/
 * value pairs in a New Order POST submission.
 */
#define ALT_SIZEF 18  /* size of a valueless triplet Sxx*=&Ixx*&Qxx*&
*/
#define ALT_SIZEC 12  /* size of CMD=Execute */
#define ALT_SIZEA 4   /* size of [S|I|Q]xx* */

/*
 * Maximum name tag size
 */
#define ALT_SIZEW 100

/*
 * name tags for name/value pairs used in POST queries
 */
static const char *szItemList[] = {
"I00*=", "I01*=", "I02*=", "I03*=", "I04*=",
"I05*=", "I06*=", "I07*=", "I08*=", "I09*=",
"I10*=", "I11*=", "I12*=", "I13*=", "I14*=", ""};
static const char *szSupplyList[] = {
"S00*=", "S01*=", "S02*=", "S03*=", "S04*=",
"S05*=", "S06*=", "S07*=", "S08*=", "S09*=",
"S10*=", "S11*=", "S12*=", "S13*=", "S14*=", ""};
static const char *szQuantityList[] = {
"Q00*=", "Q01*=", "Q02*=", "Q03*=", "Q04*=",
"Q05*=", "Q06*=", "Q07*=", "Q08*=", "Q09*=",
"Q10*=", "Q11*=", "Q12*=", "Q13*=", "Q14*=", ""};

extern char szPluginPath[];

/*
 * Valid values for the CMD name tag.
 */
static const char *szCmds[] =
{
        "Unknown",
        "Execute",
        "..NewOrder..",
        "..Payment..",
        "..Delivery..",
        "..Order-Status..",
        "..Stock-Level..",
        "..Exit..",
        "Submit",
        "Menu"
};

/*
 * Static HTML for the initial login screen.
 */
static const char *szLoginScreen =
        "<HTML>"
        "<HEAD><TITLE>Welcome To TPC-
C</TITLE></HEAD><BODY>"
        "Please Identify your Warehouse and District for this
session.<BR>"
        "<FORM ACTION=\"%s\" METHOD=\"POST\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SCID\" VALUE=\"1\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TRID\" VALUE=\"-2\">"
        "<INPUT TYPE=\"hidden\" NAME=\"WKID\" VALUE=\"0\">"
        "Warehouse ID <INPUT NAME=\"w_id\" SIZE=4><BR>"
        "District ID <INPUT NAME=\"d_id\" SIZE=2><BR>"
        "<HR>"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"Submit\">"
        "</FORM>";

/*
 * Static HTML segment for the option list on the menu screen.
 */
static const char    *szMenuList =
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..NewOrder..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Payment..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Delivery..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Order-
Status..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Stock-
Level..\">"
        "<INPUT TYPE=\"submit\"
NAME=\"CMD\"VALUE=\"..Exit..\">";



/*
 * HTML footer.
 */
static const char *szEndHtmlTag = "</BODY></HTML>\r\n\r\n";

/*
 * Name tags used for RBE (terminal) status and context identification.
 */
static const char *TRID = "TRID=";
static const char *WKID = "WKID=";
static const char *SCID = "SCID=";
static const char *STID = "STID=";

static const char *CMD = "CMD=";
static const char *ZIPPIC = "XXXXX-XXXX";

/*
 * Eternal counter for terminal context identifier.
 */
static volatile int iTermCnt = 1;

/*
 * Function prototypes.
 */
BOOL bExecuteLogin(char *, char *, WORKER *, int *);
BOOL bExecuteForm(char *, char *, WORKER *, int *);
BOOL bExecuteNewOrder(char *, char *, WORKER *, int *);
BOOL bExecutePayment(char *, char *, WORKER *, int *);
BOOL bExecuteDelivery(char *, char *, WORKER *, int *);
BOOL bExecuteOrderStatus(char *, char *, WORKER *, int *);
BOOL bExecuteStockLevel(char *, char *, WORKER *, int *);
BOOL bExtractHidden(char *, unsigned int *, int *, int *);

unsigned int  uiExtractCmd(char *, char *, unsigned int);

char * pszExtractLongKey(long *, char *, const char *, WORKER *);
char * pszExtractIntKey(int *, char *, const char *, WORKER *);
/* Don't use this anymore:
 * char * pszExtractShortKey(short *, char *, char *, WORKER *);
 */
char * pszExtractStringKey(char *, char *, const char *, WORKER *,
unsigned int);
char * pszExtractAmountKey(double *, char *, const char *, WORKER *);
char * pszExtractKeyValue(char *, const char *, char **, unsigned int);
char * pszExtractWDIDKey(int *, char *, char *, WORKER *);

int iLayoutLogin(char *, WORKER *);
int iLayoutMenu(char *, WORKER *);
int iLayoutNewOrder(char *, WORKER *);
int iLayoutPayment(char *, WORKER *);
int iLayoutDelivery(char *, WORKER *);
int iLayoutOrderStatus(char *, WORKER *);
int iLayoutStockLevel(char *, WORKER *);
int iLayoutFormHdr(char *, char *, WORKER *);
int iLayoutRespHdr(char *, char *, WORKER *);
int iLayoutHTMLString(char *, char *, unsigned int);
int iLayoutString(char *, const char *, char *);

void vStringCopy(char *, char *, int);
void vToUpper(char *);

BOOL bIsNumeric(char *);


/**
 ** uiServiceRequest() is the entry point for transaction processing.  It is
 ** called from the TpccService() routine in tpccNsapi.c.
 **
 ** inputs:
 **   pWorker -- the WORKER struct assigned to the current thread.
 **   pszRecvMsg -- the POST query from the RBE
 **
 ** outputs:
 **   pszSendMsg -- HTML content to be returned to the RBE
 **   piSendLen -- length of HTML content
 **   uiStatus --
 **/
unsigned int
uiServiceRequest(WORKER * pWorker, char *pszRecvMsg, char
*pszSendMsg,
        int *piSendLen)
{
```

```
        int iWorkerId;
        int iTerminalId;
        unsigned int uiCmdId;
        unsigned int uiStatus = SENDCLOSE;
        pWorker->szErrorTxt[0] = 0;
        pWorker->iStatusId = STATUS_OK;
        pWorker->iWarehouseId = 0;
        pWorker->iDistrictId = 0;

        /*
         * Check to make sure the Tuxedo interface is established and
         * functional.
         */
        if(pWorker->pTuxInData == NULL)
        {
                if(bTuxInit(pWorker))
                {
                        pWorker->iStatusId =
ERR_TUX_INTERFACE;
                        *piSendLen = iLayoutLogin(pszSendMsg,
pWorker);
                        goto ServiceXit;
                }
        }

        /*
         * Extract the hidden tags, and if successful (return value of 0),
         * assign the relevant value to uiCmdId for the CMD tag
         */
        if(bExtractHidden(pszRecvMsg, &pWorker->uScreenId,
&iWorkerId,
   &iTerminalId))
        {
                if(pWorker->iWarehouseId != 0)
                {
                        strcpy(pWorker->szErrorTxt,
                        "Decode hidden fields error");
                }
                else
                {
                        uiStatus = SEND;
                }
                *piSendLen = iLayoutLogin(pszSendMsg, pWorker);
                goto ServiceXit;
        }
        uiCmdId = uiExtractCmd(pszRecvMsg, pWorker->szWork,
                  sizeof(pWorker->szWork));

        /*
         *Check for multiple log in attempts.
         */
        if(pWorker->iWarehouseId != 0 && uiCmdId ==
CMD_SUBMIT)
        {
                strcpy(pWorker->szErrorTxt,
ERRTXT_ALREADY_LOGGEDIN);
                pWorker->iStatusId = ERR_ALREADY_LOGGEDIN;
                *piSendLen = iLayoutMenu(pszSendMsg, pWorker);
```

```
                uiStatus = SEND;
                goto ServiceXit;
        }

        /*
         * CMD_SUBMIT is only used for logins.
         * If we've already logged in, determine this terminal's district and
         * warehouse ID and make certain they are valid.
         */
        if(uiCmdId != CMD_SUBMIT)
        {
                if(pszExtractWDIDKey(&(pWorker->iWarehouseId),
                           pszRecvMsg, "w_id=", pWorker) ==
NULL)
                {
                        *piSendLen = iLayoutLogin(pszSendMsg,
pWorker);
                        goto ServiceXit;
                }
                if(pszExtractWDIDKey(&(pWorker->iDistrictId),
                           pszRecvMsg, "d_id=", pWorker) ==
NULL)
                {
                        *piSendLen = iLayoutLogin(pszSendMsg,
pWorker);
                        goto ServiceXit;
                }
        }
        if((pWorker->iWarehouseId == 0 || pWorker->iDistrictId == 0)
&& uiCmdId != CMD_SUBMIT)
        {
                strcpy(pWorker->szErrorTxt, "Must log in first!");
                pWorker->iStatusId = ERR_WID_INVALID;
                *piSendLen = iLayoutLogin(pszSendMsg, pWorker);
                goto ServiceXit;
        }

        /*
         * If the CMD value was something other than submit, we will be
expecting
         * status, screen, and terminal ID name/value pairs
         */
        if(uiCmdId != CMD_SUBMIT)
        {
                if(iTerminalId == iWorkerId)
                {
                        pWorker->iTerminalId = iTerminalId;
                        pWorker->iWorkerId = iWorkerId;
                }
                if(iTerminalId != pWorker->iTerminalId
                || iTerminalId != iWorkerId)
                {
                        sprintf(pWorker->szErrorTxt,
                                "%s: Received %ld, %ld (%ld)",
                                ERRTXT_TRID, iTerminalId,
iWorkerId,
                                pWorker->iTerminalId);
                        pWorker->iStatusId = ERR_TRID;
```

```
                                *piSendLen = iLayoutLogin(pszSendMsg,
pWorker);
                                goto ServiceXit;
                        }
                }

                /*
                 * Now execute the command based on the uiCmdId.
                 *
                 * CMD_*_SCREEN cases return the data entry screen for the
respective
                 *   transactions.
                 * CMD_EXECUTE case processes data from executed
transactions.
                 * CMD_SUBMIT case logs in the user.
                 * CMD_EXIT case logs out the user.
                 */
                switch (uiCmdId)
                {
                case CMD_MENU_SCREEN:
                        pWorker->iTerminalId = iTerminalId;
                        pWorker->iWorkerId = iWorkerId;
                        *piSendLen = iLayoutMenu(pszSendMsg, pWorker);
                        break;
                case CMD_NEWORDER_SCREEN:
                        pWorker->iTerminalId = iTerminalId;
                        pWorker->iWorkerId = iWorkerId;
                        *piSendLen = iLayoutNewOrder(pszSendMsg,
pWorker);
                        break;
                case CMD_PAYMENT_SCREEN:
                        pWorker->iTerminalId = iTerminalId;
                        pWorker->iWorkerId = iWorkerId;
                        *piSendLen = iLayoutPayment(pszSendMsg,
pWorker);
                        break;
                case CMD_DELIVERY_SCREEN:
                        pWorker->iTerminalId = iTerminalId;
                        pWorker->iWorkerId = iWorkerId;
                        *piSendLen = iLayoutDelivery(pszSendMsg,
pWorker);
                        break;
                case CMD_ORDERSTATUS_SCREEN:
                        pWorker->iTerminalId = iTerminalId;
                        pWorker->iWorkerId = iWorkerId;
                        *piSendLen = iLayoutOrderStatus(pszSendMsg,
pWorker);
                        break;
                case CMD_STOCKLEVEL_SCREEN:
                        pWorker->iTerminalId = iTerminalId;
                        pWorker->iWorkerId = iWorkerId;
                        *piSendLen = iLayoutStockLevel(pszSendMsg,
pWorker);
                        break;
                case CMD_EXECUTE:
                        pWorker->iTerminalId = iTerminalId;
                        pWorker->iWorkerId = iWorkerId;
                        bExecuteForm(pszRecvMsg, pszSendMsg, pWorker,
```

```
piSendLen);
                break;
        case CMD_SUBMIT:
                bExecuteLogin(pszRecvMsg, pszSendMsg, pWorker,
piSendLen);
                break;
        case CMD_EXIT:
                pWorker->iWarehouseId = 0;
                pWorker->iDistrictId = 0;
                pWorker->iTerminalId = -2;
                pWorker->iWorkerId = 0;
                strcpy(pWorker->szErrorTxt, "Logged Off");
                *piSendLen = iLayoutLogin(pszSendMsg, pWorker);
                goto ServiceXit;
        default:
                strcpy(pWorker->szErrorTxt,
ERRTXT_CMD_UNKNOWN);
                pWorker->iStatusId = ERR_CMD_UNKNOWN;
                if(pWorker->iWarehouseId == 0)
                {
                        *piSendLen = iLayoutLogin(pszSendMsg,
pWorker);
                        goto ServiceXit;
                }
                else
                {
                        pWorker->iTerminalId = iTerminalId;
                        pWorker->iWorkerId = iWorkerId;
                        *piSendLen = iLayoutMenu(pszSendMsg,
pWorker);
                }
                break;
        }
        uiStatus = SEND;

        return(uiStatus);

ServiceXit: /* Goto label for unsuccessful transactions */
        return(uiStatus);
}

/**
 ** bExecuteLogin() processes POST submissions for user logins.  It is called
 ** from uiServiceRequest().
 **/
BOOL
bExecuteLogin(char *pszInData, char *pszOutData, WORKER * pWorker,
      int *piSendLen)
{
        int iWarehouseId;
        int iDistrictId;
        char *pszPtr;

        /*
         * Extract the warehouse ID and make sure it is not less than 1.
         */
        if((pszPtr = pszExtractIntKey(&iWarehouseId, pszInData,
    "w_id=", pWorker)) == NULL)
        {
                *piSendLen = iLayoutLogin(pszOutData, pWorker);
                return(TRUE);
        }
        if(iWarehouseId < 1)
        {
                sprintf(pWorker->szErrorTxt, "Warehouse Id (%d)
Invalid",

        iWarehouseId);
                pWorker->iStatusId = ERR_WID_INVALID;
                *piSendLen = iLayoutLogin(pszOutData, pWorker);
                return(TRUE);
        }

        /*
         * Extract the district ID and make sure it is within the minimum
and
         * maximum bounds.
         */
        if((pszPtr = pszExtractIntKey(&iDistrictId, pszPtr, "d_id=",
pWorker))
    == NULL)
        {
                *piSendLen = iLayoutLogin(pszOutData, pWorker);
                return(TRUE);
        }
        if(iDistrictId < 1)
        {
                sprintf(pWorker->szErrorTxt, "District Id (%d)
Invalid",

        iDistrictId);
                pWorker->iStatusId = ERR_DID_INVALID;
                *piSendLen = iLayoutLogin(pszOutData, pWorker);
                return(TRUE);
        }

        pWorker->iWarehouseId = abs(iWarehouseId);
        pWorker->iDistrictId = abs(iDistrictId);

        /*
         * Assign a new terminal and worker (the latter of which is
unnecessary)
         * if we see a value less than 1, indicating a terminal context has
not
         * yet been defined or that the slave has defaulted back to the
login
         * screen.  This value is set by a global increment counter,
iTermCnt.
         */
        pWorker->iTerminalId = iTermCnt++;
        pWorker->iWorkerId = pWorker->iTerminalId;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);

        return(FALSE);
}
/**
 ** bExecuteForm() processes the form data from POST submissions for the
 ** five TPC-C transaction types.  It is called from uiServiceRequest().
 **/
BOOL
bExecuteForm(char *pszInData, char *pszOutData, WORKER * pWorker,
      int *piSendLen)
{
        /*
         * SCREEN_* is extracted from the SCID= name tag in the POST
query from
         * the RBE, and determines which form processing function
should be
         * executed.
         *
         * If the screen ID is unrecognized, return an error.
         */
        switch (pWorker->uScreenId)
        {
        case SCREEN_NEWORDER:
                return(bExecuteNewOrder(pszInData, pszOutData,
pWorker,
                  piSendLen));
        case SCREEN_PAYMENT:
                return(bExecutePayment(pszInData, pszOutData,
pWorker,
                  piSendLen));
        case SCREEN_DELIVERY:
                return(bExecuteDelivery(pszInData, pszOutData,
pWorker,
                  piSendLen));
        case SCREEN_ORDERSTATUS:
                return(bExecuteOrderStatus(pszInData, pszOutData,
pWorker,
                  piSendLen));
        case SCREEN_STOCKLEVEL:
                return(bExecuteStockLevel(pszInData, pszOutData,
pWorker,
                  piSendLen));
        default:
                sprintf(pWorker->szErrorTxt, "%s (%ld)",
                        ERRTXT_SCREEN_UNKNOWN,
pWorker->uScreenId);
                pWorker->iStatusId = ERR_SCREEN_UNKNOWN;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                break;
        }
        return(TRUE);
}

/**
 ** bExecuteNewOrder() processes the form data from POST submissions
specific
 ** to the NewOrder transaction.  It is called from bExecuteForm().
 **/
BOOL
bExecuteNewOrder(char *pszInData, char *pszOutData, WORKER *
pWorker,
```

```
            int *piSendLen)
{
            NEWO_INF       *pNewInf;
            int            iLen = 0;
            char            szKey[20];
            char            szCredit[14];
            char           *pszPtr;
            char           *pszPtr1;
            unsigned int    uiLoop;
            BOOL            bDone = FALSE;
            BOOL            bTxReturn;
            BOOL            bTxResult;
            int             iTxResult;
       BOOL            supply_is_null, item_is_null, quantity_is_null;
       int             empty_slot;
            /*
             * Set pTuxInData such that it conforms to the New Order
(NEWO_INF)
             * data structure.
             */
            pWorker->lTuxDataLen = sizeof(NEWO_INF);
            pNewInf = (NEWO_INF *)pWorker->pTuxInData;
            pNewInf->w_id = pWorker->iWarehouseId;
            pNewInf->status[0] = 0;

            /*
             * Extract the district ID and check that it is within bounds.
             */
            if((pszPtr = pszExtractIntKey(&pNewInf->d_id, pszInData,
"DID*=",
              pWorker)) == NULL)
            {
                        *piSendLen = iLayoutMenu(pszOutData, pWorker);
                        return(TRUE);
            }

       /* don't allow less then 1 */
             if(pNewInf->d_id <= 0)
             {
                         sprintf(pWorker->szErrorTxt, "DId Invalid - (%d)",
                                    pNewInf->d_id);
                         pWorker->iStatusId = ERR_DID_INVALID;
                         *piSendLen = iLayoutMenu(pszOutData, pWorker);
                         return(TRUE);
             }


            /*
             * Extract customer ID and check its validity.
             */
            if((pszPtr = pszExtractIntKey(&pNewInf->c_id, pszPtr, "CID*=",
              pWorker)) == NULL)
            {
                        *piSendLen = iLayoutMenu(pszOutData, pWorker);
                        return(TRUE);
            }

            if(pNewInf->c_id <= 0)
            {
                        sprintf(pWorker->szErrorTxt,
                                    "CId Invalid - %ld", pNewInf->c_id);
                        pWorker->iStatusId = ERR_CID_INVALID;
                        *piSendLen = iLayoutMenu(pszOutData, pWorker);
                        return(TRUE);
      }

            /*
             * Find first value-less name/value pair.  As all name tags used by
the
             * RBE / plugin environment end with *, "*=&" is a string that
will
             * indicate the end of the name tag, the separating equal sign, and
             * the ampersand leading to the next name/value pair.  All
subsequent
             * name tags should have empty values.
             */
            pNewInf->o_ol_cnt = 0;
#if 0
            pszPtr1 = strstr(pszPtr, "*=&");
            if(pszPtr1)
            {
                        /*
                         * Back up ALT_SIZEA (4) characters to beginning of
valueless
                         * name tag strings.
                         */
                        pszPtr1-=ALT_SIZEA;

                        /* Takes the chunk of the POST data starting from the
first
                         * blank field to the very end of the data; then backs up
to
                         * right before CMD=Execute a name/value pair; then
checks to
                         * make sure it is divisible by 3 times the length of the
                         * triplet of valueless named variables,
                         * e.g., S10*=&I10*=&Q10*=&
                         *
                         *
                         * If the resulting remainder is non-zero (i.e., there are
                         * extra characters where there should be none), an
error
                         * occurs.
                         *
                         */
           /* allow this */


                        if((strlen(pszPtr1) - ALT_SIZEC) % ALT_SIZEF)
                        {
                                    sprintf(pWorker->szErrorTxt,
                                    "Embedded Empty Order Lines Or
Mandatory Fields Blank");
                                    pWorker->iStatusId =
ERR_MANDATORY_FIELD;
                                    *piSendLen = iLayoutMenu(pszOutData,
pWorker);
                                                return(TRUE);
                        }


            }
#endif
            /*
             * Now loop through the name/value pairs for the order lines, and
             * retrieve the entered warehouse, item, and quantity values.
             *
             * This will also check for blank fields and invalid values in the
             * form.
             */

   empty_slot=-1;
   for(uiLoop = 0; uiLoop < MAX_OL; uiLoop++)
   {
      supply_is_null = item_is_null = quantity_is_null = FALSE;
      if((pszPtr =
        pszExtractIntKey(&pNewInf->o_ol[uiLoop].ol_supply_w_id,
        pszPtr, szSupplyList[uiLoop], pWorker)) == NULL)
      {
         supply_is_null=TRUE;
      }
      if((pszPtr = pszExtractIntKey(&pNewInf->o_ol[uiLoop].ol_i_id,
        pszPtr, szItemList[uiLoop], pWorker)) == NULL)
      {
        item_is_null=TRUE;
      }
      if((pszPtr = pszExtractIntKey(
        &pNewInf->o_ol[uiLoop].ol_quantity,
        pszPtr, szQuantityList[uiLoop], pWorker)) == NULL)
      {
        quantity_is_null=TRUE;
      }
      /* Ok to have a completely blank line */
      if ( pNewInf->o_ol[uiLoop].ol_supply_w_id == 0 && pNewInf-
>o_ol[uiLoop].ol_i_id == 0 &&
                 pNewInf->o_ol[uiLoop].ol_quantity ==0)
      {
         if (empty_slot == -1){
            empty_slot = uiLoop;

         }
         continue;
      }
            /* check for partially filled in line */
      if(pNewInf->o_ol[uiLoop].ol_i_id == 0)
            {
         if(pNewInf->o_ol[uiLoop].ol_supply_w_id != 0)
         {
            sprintf(pWorker->szErrorTxt,
            "Order Line %ld WId Supplied with No Item",
            uiLoop);
            pWorker->iStatusId = ERR_OL_INVALID;
            *piSendLen = iLayoutMenu(pszOutData, pWorker);
            return(TRUE);
         }
```

```
        if(pNewInf->o_ol[uiLoop].ol_quantity != 0)
        {
            sprintf(pWorker->szErrorTxt,
            "Order Line %ld Qty Supplied with No Item",
            uiLoop);
            pWorker->iStatusId = ERR_OL_INVALID;
            *piSendLen = iLayoutMenu(pszOutData, pWorker);
            return(TRUE);
        }
    }
    if(pNewInf->o_ol[uiLoop].ol_i_id != 0)
            {
        if(pNewInf->o_ol[uiLoop].ol_supply_w_id == 0)
        {
            sprintf(pWorker->szErrorTxt,
            "Order Line %ld No S-WID",
            uiLoop);
            pWorker->iStatusId = ERR_OL_INVALID;
            *piSendLen = iLayoutMenu(pszOutData, pWorker);
            return(TRUE);
        }
        if(pNewInf->o_ol[uiLoop].ol_quantity == 0)
        {
            sprintf(pWorker->szErrorTxt,
            "Order Line %ld No Qunatity",
            uiLoop);
            pWorker->iStatusId = ERR_OL_INVALID;
            *piSendLen = iLayoutMenu(pszOutData, pWorker);
            return(TRUE);
        }
    }
    if (empty_slot!= -1) {
        pNewInf->o_ol[empty_slot] = pNewInf->o_ol[uiLoop];
                /*after copy over data - zero out source area, just in case */
        pNewInf->o_ol[uiLoop].ol_supply_w_id=0;
        pNewInf->o_ol[uiLoop].ol_i_id=0;
        pNewInf->o_ol[uiLoop].ol_quantity=0;
        empty_slot++;
    }
            pNewInf->o_ol_cnt++;

  } /* end for() */
            /*
             * Checks for minimum order line requirement (TPC-C v3.5 is
five).
             */
            /*  PASS THRU  -
             if(pNewInf->o_ol_cnt < MIN_OL)
             {
                        sprintf(pWorker->szErrorTxt, "Too Few Order Lines
%d",
                                pNewInf->o_ol_cnt);
                        pWorker->iStatusId = ERR_OL_COUNT;
                        *piSendLen = iLayoutMenu(pszOutData, pWorker);
                        return(TRUE);
             }
     */
```

```
        /*
         * Perform the Tuxedo transaction.
         */
        bTxReturn = bTuxTran(NEWORDER, pWorker, &bTxResult,
&iTxResult);
        pNewInf = (NEWO_INF *)pWorker->pTuxOutData;  /*
Redundant? OutData */
        if(bTxReturn)
        {
       ereport(LOG_WARN,"%d] bExecuteNewOrder: Service Returned
Error(%ld) : %s \n",
         pWorker->uiThrId, iTxResult, pNewInf->status );
                pWorker->iStatusId = ERR_TUX_INTERFACE;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }

        /*
         * Check to make sure Tuxedo call was successful.
         */
        if(bTxResult && (iTxResult < SVC_NOERROR))
        {
       ereport(LOG_WARN,"%d] bExecuteNewOrder: Service Returned
Error(%ld) : %s \n",
         pWorker->uiThrId, iTxResult, pNewInf->status );

                sprintf(pWorker->szErrorTxt,
                        "New Order Service Returned Error(%ld) :
%s",
                        iTxResult, pNewInf->status);
                pWorker->iStatusId = ERR_SERVICE_RSLT;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }

        if(iTxResult == SVC_BADITEMID) {
                ereport(LOG_WARN,"%d] bExecuteNewOrder:
Tuxedo Service : %s \n", pNewInf->status);
                pWorker->iStatusId = INVALID_ITEM_ID;
        }
        /*
         * Now package up the return data from the query (new order line
         * items, customer information, item prices) from the database
into
         * an HTML page.
         */

        /*
         * HTTP header and HTML title
         */
        iLen = iLayoutRespHdr(pszOutData, "TPC-C New Order",
pWorker);

        /*
         * district and warehouse IDs
         */
        iLen+=sprintf(pszOutData + iLen,
                "<PRE>                          New Order<BR>"
                "Warehouse: %4.4d   District: %2.2d                      ",
                pNewInf->w_id, pNewInf->d_id);

        /*
         * transaction date/time stamp
         */
        if(!bTxResult)
        {
                iLen+=sprintf(pszOutData + iLen,
                        "Date: %s <BR>", pNewInf->o_entry_d);
        }
        else
        {
                iLen+=sprintf(pszOutData + iLen, "Date:<BR>");
        }

        /*
         *customer name, customer's credit
         */
        iLayoutHTMLString(pWorker->szWork, pNewInf->c_last,
NAME_LEN);
        iLayoutHTMLString(szCredit, pNewInf->c_credit, 2);
        iLen+=sprintf(pszOutData + iLen,
                "Customer:  %4.4d   Name: %s   Credit: %s   ",
                pNewInf->c_id, pWorker->szWork, szCredit);

        if(!bTxResult)
        {
                /*
                 * discount, and tax information for this transaction
                 */
                iLen+=sprintf(pszOutData + iLen,
                        "%%Disc: %5.2f            <BR>", pNewInf-
>c_discount);
                iLen+=sprintf(pszOutData + iLen,
                        "Order Number: %8.8d  Number of Lines:
%2.2d"
                        "        W_tax: %5.2f D_tax: %5.2f
<BR><BR>",
                        pNewInf->o_id, pNewInf->o_ol_cnt,
pNewInf->w_tax,
                        pNewInf->d_tax);
                iLen+=sprintf(pszOutData + iLen, " Supp_W  Item_Id
Item Name"
                "                Qty  Stock B/G  Price    Amount<BR>");

                /*
                 * individual order lines
(price/quantity/warehouse/item)
                 */
                for(uiLoop = 0; uiLoop < (unsigned int)pNewInf-
>o_ol_cnt;

                uiLoop++)
                {
                        iLayoutHTMLString(pWorker->szWork,
                                                pNewInf-
>o_ol[uiLoop].ol_i_name, 24);
```

```
            iLen+=sprintf(pszOutData + iLen,
                "  %4.4d   %6.6d   %s  %2.2d
%3.3d"
                "    %1.1s   $%6.2f $%7.2f
<BR>",
            pNewInf->o_ol[uiLoop].ol_supply_w_id,
            pNewInf->o_ol[uiLoop].ol_i_id, pWorker-
>szWork,
            pNewInf->o_ol[uiLoop].ol_quantity,
            pNewInf->o_ol[uiLoop].ol_stock,
            pNewInf->o_ol[uiLoop].ol_brand_generic,
            pNewInf->o_ol[uiLoop].ol_i_price,
            pNewInf->o_ol[uiLoop].ol_amount);
        }
    }

    /*
     * if there's no return data from the database,
     * fill the values with blanks
     */
    else
    {
        iLen+=sprintf(pszOutData + iLen , "%%Disc:<BR>");
        iLen+=sprintf(pszOutData + iLen,
            "Order Number: %8.8d  Number of Lines:"
            "            W_tax: D_tax:<BR><BR>",
            pNewInf->o_id);
        if(pWorker->iStatusId == INVALID_ITEM_ID)
        iLen+=sprintf(pszOutData + iLen, " Supp_W  Item_Id
Item Name"
        "                Qty  Stock  B/G Price    Amount<BR>");
        uiLoop = 0;
    }
    for(; uiLoop < MAX_OL; uiLoop++)
        iLen+=sprintf(pszOutData + iLen, "<BR>");

    /*
     * total price
     */
    if(!bTxResult)
    {
        iLen+=sprintf(pszOutData + iLen,
            "Execution Status: %24.24s"
            "                  Total:  $%8.2f  ",
            pNewInf->status, pNewInf->total_amount);
    }
    /*
     * if there's no return data from the database,
     * fill the values with blanks
     */
    else
    {
        iLen+=sprintf(pszOutData + iLen,
            "Execution Status: %24.24s"
            "                  Total:",
            pNewInf->status);
    }
    iLen+=sprintf(pszOutData + iLen,
```

```
            "</PRE><HR><BR>%s</FORM>%s", szMenuList,
szEndHtmlTag);
    /*
     * End of HTML generation for New Order.
     */

    *piSendLen = iLen;
    return(FALSE);
}

/**
 ** bExecutePayment() processes the form data from POST submissions
specific
 ** to the Payment transaction.  It is called from bExecuteForm().
 **/
BOOL
bExecutePayment(char *pszInData, char *pszOutData, WORKER *
pWorker, int *piSendLen)
{
    PAY_INF        *pPayInf;
    int                 iLen = 0;
    BOOL           bTxReturn;
    BOOL           bTxResult;
    int            iTxResult;
    char           *pCredit;
    char           *pszPtr;
    int            iCDLines;
    char            szWork2[60];
    char            szWork3[60];
    char            szWork4[60];
    char            szZip1[20];
    char            szZip2[20];
    char            c_data[210];
    int            iLoop;

    /*
     * Set pTuxInData such that it conforms to the Payment
(PAY_INF)
     * data structure.
     */
    pWorker->lTuxDataLen = sizeof(PAY_INF);
    pPayInf = (PAY_INF *)pWorker->pTuxInData;
    pPayInf->c_id = 0;
    pPayInf->c_last[0] = 0;
    pPayInf->w_id = pWorker->iWarehouseId;

    /*
     * Extract the district ID and check that it is within bounds.
     */        if((pszPtr = pszExtractIntKey(&pPayInf->d_id,
pszInData, "DID*=",
      pWorker)) == NULL)
    {
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
    /* pass thru to DB
    if(pPayInf->d_id < MIN_DID || pPayInf->d_id > MAX_DID)
    {
```

```
  */
    if(pPayInf->d_id < 1 )
    {
        sprintf(pWorker->szErrorTxt, "DId <=0 - %ld",
            pPayInf->d_id);
        pWorker->iStatusId = ERR_DID_INVALID;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
      return(TRUE);
    }


    /*
     * Extract customer ID and check its validity.
     */
    if((pszPtr = pszExtractIntKey(&pPayInf->c_id, pszPtr, "CID*=",
            pWorker)) == NULL)
    {
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }

    /*
     * Extract and validate customer's warehouse ID and check its
     * validity
     */
    if((pszPtr = pszExtractIntKey(&pPayInf->c_w_id, pszPtr,
"CWI*=",
            pWorker)) == NULL)
    {
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
    if(pPayInf->c_w_id < 1)
    {
        sprintf(pWorker->szErrorTxt,
            "Payment Contains Invalid Customer WId
%d",
            pPayInf->c_w_id);
        pWorker->iStatusId = ERR_WID_INVALID;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }

    /*
     * Extract and validate customer's district ID and check its
validity.
     */
    if((pszPtr = pszExtractIntKey(&pPayInf->c_d_id, pszPtr,
"CDI*=",
            pWorker)) == NULL)
    {
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
  /* Pass thru
    if(pPayInf->c_d_id < MIN_DID || pPayInf->c_d_id >
MAX_DID)
    {
```

```
        sprintf(pWorker->szErrorTxt,
            "Cust DId Out of Range(%ld,%ld) - %ld",
            MIN_DID, MAX_DID, pPayInf->d_id);
        pWorker->iStatusId = ERR_DID_INVALID;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
  */
    if(pPayInf->c_d_id < 1 )
    {
        sprintf(pWorker->szErrorTxt, "Cust DId is Empty");
        pWorker->iStatusId = ERR_DID_INVALID;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
    if((pszPtr = pszExtractStringKey(pPayInf->c_last, pszPtr,
"CLT*=",
                pWorker, NAME_LEN)) ==
NULL)
    {
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
    if(pPayInf->c_id <= 0 && pPayInf->c_last[0] == 0)
    {
        strcpy(pWorker->szErrorTxt,
            "Error - Customer Id and Name Empty");
        pWorker->iStatusId = ERR_IDANDNAME_EMPTY;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
    if(pPayInf->c_id != 0 && pPayInf->c_last[0] != 0)
    {
        strcpy(pWorker->szErrorTxt,
          "Error - Specify Customer Id or Name, not Both");
        pWorker->iStatusId =
ERR_IDANDNAME_ENTERED;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }

    /*
     * Extract mount of payment and check its validity.
     */
    if((pszPtr = pszExtractAmountKey(&pPayInf->h_amount, pszPtr,
"HAM*=",
            pWorker)) == NULL)
    {
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
    if(pPayInf->h_amount <= 0)
    {
        sprintf(pWorker->szErrorTxt,
            "Payment Amount Negative or Missing");
        pWorker->iStatusId = ERR_AMOUNT_INVALID;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
```

```
    }

    /*
     * Perform the Tuxedo transaction.
     */
    bTxReturn = bTuxTran(PAYMENT, pWorker, &bTxResult,
&iTxResult);
  pPayInf = (PAY_INF *)pWorker->pTuxOutData;
    /*pPayInf = (PAY_INF *)pWorker->pTuxInData; */

    /*
     * Check to make sure Tuxedo call was successful.
     */
    if(bTxReturn)
    {
   ereport(LOG_WARN," %d]bExecutePayment: bTuxTran returned
ERROR error Worker: 0x%lx\n",pWorker->uiThrId, pWorker );
    pWorker->iStatusId = ERR_TUX_INTERFACE;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
    if(bTxResult)
    {
      ereport(LOG_WARN," %d]bExecutePayment: bTuxTran
result ERROR error Worker: 0x%lx\n",pWorker->uiThrId, pWorker );
        sprintf(pWorker->szErrorTxt,
            "Payment Service Returned Error(%ld) :",
            iTxResult);
        pWorker->iStatusId = ERR_SERVICE_RSLT;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }

    /*
     * Now package up the return data from the database in HTML
format.
     */
    iLen = iLayoutRespHdr(pszOutData, "TPC-C Payment",
pWorker);
    iLen+=sprintf(pszOutData + iLen,
        "<PRE>                  Payment<BR>"
        "Date: %s <BR><BR>"
        "Warehouse: %4.4d"
        "                  District: %2.2d<BR>",
        pPayInf->h_date,
        pPayInf->w_id, pPayInf->d_id);
    iLayoutHTMLString(szWork2, pPayInf->w_street_1,
ADDR_LEN);
    iLayoutHTMLString(szWork3, pPayInf->d_street_1,
ADDR_LEN);
    iLen+=sprintf(pszOutData + iLen,
        "%s                 %s<BR>", szWork2, szWork3);
    iLayoutHTMLString(szWork2, pPayInf->w_street_2,
ADDR_LEN);
    iLayoutHTMLString(szWork3, pPayInf->d_street_2,
ADDR_LEN);
    iLen+=sprintf(pszOutData + iLen,
        "%s                 %s<BR>", szWork2, szWork3);
```

```
    iLayoutHTMLString(pWorker->szWork, pPayInf->w_city,
ADDR_LEN);
    iLayoutHTMLString(szWork2, pPayInf->d_city, ADDR_LEN);
    iLayoutHTMLString(szWork3, pPayInf->w_state, STATE_LEN);
    iLayoutHTMLString(szWork4, pPayInf->d_state, STATE_LEN);
    iLayoutString(szZip1, ZIPPIC, pPayInf->w_zip);
    iLayoutString(szZip2, ZIPPIC, pPayInf->d_zip);
    iLen+=sprintf(pszOutData + iLen,
        "%s %s %10.10s       %s %s %10.10s<BR><BR>",
        pWorker->szWork, szWork3, szZip1, szWork2,
szWork4, szZip2);
    iLayoutHTMLString(szWork2, pPayInf->c_first, NAME_LEN);
    iLayoutHTMLString(szWork3, pPayInf->c_middle, 2);
    iLayoutHTMLString(szWork4, pPayInf->c_last, NAME_LEN);
    iLen+=sprintf(pszOutData + iLen,
     "Customer: %4.4d  Cust-Warehouse: %4.4d  Cust-District:
%2.2d<BR>"
        "Name:   %s %s %s     Since:  %s<BR>",
        pPayInf->c_id, pPayInf->c_w_id, pPayInf->c_d_id,
        szWork2, szWork3, szWork4,
        pPayInf->c_since);
    iLayoutHTMLString(pWorker->szWork, pPayInf->c_street_1,
ADDR_LEN);
    iLayoutHTMLString(szWork2, pPayInf->c_credit, 2);
    iLayoutHTMLString(szWork3, pPayInf->d_street_2,
ADDR_LEN);
    iLen+=sprintf(pszOutData + iLen,
        "       %s                  Credit: %s<BR>"
        "       %s                  %%Disc:  %5.2f<BR>",
        pWorker->szWork, szWork2, szWork3, pPayInf-
>c_discount);
    iLayoutHTMLString(szWork2, pPayInf->c_city, ADDR_LEN);
    iLayoutHTMLString(szWork3, pPayInf->c_state, STATE_LEN);
    iLayoutString(szZip1, ZIPPIC, pPayInf->c_zip);
    iLayoutString(szWork4, "XXXXXX-XXX-XXX-XXXX",
pPayInf->c_phone);
    iLen+=sprintf(pszOutData + iLen,
    "       %s %s %10.10s       Phone:  %-19.19s<BR><BR>"
    "Amount Paid:          $%7.2f      New Cust Balance: $
%14.2f<BR>"
    "Credit Limit:   $%13.2f<BR><BR>",
    szWork2, szWork3, szZip1, szWork4,
    pPayInf->h_amount, pPayInf->c_balance, pPayInf-
>c_credit_lim);
    sprintf(c_data, "%s", pPayInf->c_data);
    /*
     * customer payment information
     */
    if(pPayInf->c_credit[0] == 'B' && pPayInf->c_credit[1] == 'C')
    {
        pCredit = c_data;
        iCDLines = strlen(pCredit)/ 50;
        for(iLoop = 0; iLoop < 4; iLoop++, pCredit += 50)
        {
            if(iLoop <= iCDLines)
                vStringCopy(szWork2, pCredit,
50);
            else
```

```
                                szWork2[0] = 0;
                        iLayoutHTMLString(szWork3, szWork2,
50);
                        if(!iLoop)
                                iLen+=sprintf(pszOutData +
iLen,
                                        "Cust-Data:
%s<BR>", szWork3);
                        else
                                iLen+=sprintf(pszOutData +
iLen,
                                        "         %s<BR>",
szWork3);
                }
        }
        else
                iLen+=sprintf(pszOutData + iLen,
                        "Cust-Data: <BR> <BR> <BR> <BR>");
        iLen+=sprintf(pszOutData + iLen,
                "</PRE><HR><BR>%s</FORM>%s", szMenuList,
szEndHtmlTag);
        /*
         * End of HTML generation for Payment.
         */

        *piSendLen = iLen;
        return(FALSE);
}

/**
 ** bExecuteDelivery() processes the form data from POST submissions
specific
 ** to the Delivery transaction.  It is called from bExecuteForm().
 **/
BOOL
bExecuteDelivery(char *pszInData, char *pszOutData, WORKER *
pWorker, int *piSendLen)
{
        REQ_DEL       *pReqDel;
        DEL_INF       *pDelInf;
        DEL_INF        DelInf;
        int                     iLen = 0;
        BOOL          bTxReturn;
        BOOL          bTxResult;
        int           iTxResult;
        struct timeval tv;

        pDelInf = &DelInf;

        /*
         * Set pTuxInData such that it conforms to the Delivery
(DEL_INF)
         * data structure.
         */
        pWorker->lTuxDataLen = sizeof(REQ_DEL);
        pReqDel = (REQ_DEL *)pWorker->pTuxInData;
        pReqDel->w_id = pWorker->iWarehouseId;
        /*
         * Extract the carrier ID and check that it is within bounds.
         */
        if(pszExtractIntKey(&pReqDel->o_carrier_id, pszInData,
"OCD*=",
                pWorker) == NULL)
        {
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }
    /* Pass thru
        if(pReqDel->o_carrier_id < MIN_CARRIER
         pReqDel->o_carrier_id > MAX_CARRIER)
        {
                sprintf(pWorker->szErrorTxt,
                        "Carrier Id Out of Range(%ld,%ld) - %ld",
                        MIN_CARRIER, MAX_CARRIER,
pReqDel->o_carrier_id);
                pWorker->iStatusId = ERR_CARRIER_INVALID;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }
    */
        if(pReqDel->o_carrier_id < 1)
        {
                sprintf(pWorker->szErrorTxt, "Carrier Id Invalid");
                pWorker->iStatusId = ERR_CARRIER_INVALID;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }

        /*
         * Make a note of the time the delivery request was received.  This
         * is necessary as the Delivery transaction is asynchronous, and
         * its time of execution is needed at the time the report is created.
         */
        (void)gettimeofday(&tv, NULL); /* convert to msecs */
        pReqDel->qtime = (tv.tv_sec * 1000) + (tv.tv_usec / 1000);

        /*
         * Perform the Tuxedo transaction.
         */
        bTxReturn = bTuxTran(DELIVERY, pWorker, &bTxResult,
&iTxResult);
        if(bTxReturn)
        {
                pWorker->iStatusId = ERR_TUX_INTERFACE;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }
        pDelInf->o_carrier_id = pReqDel->o_carrier_id;
        pDelInf->w_id = pReqDel->w_id;

        /*
         * Now package up the return data from the database in HTML
format.
         */
        strcpy(pDelInf->status, "Delivery has been queued.");
        iLen = iLayoutRespHdr(pszOutData, "TPC-C Delivery",
pWorker);
        iLen+=sprintf(pszOutData + iLen,
                "<PRE>                    Delivery<BR>"
                "Warehouse: %4.4d<BR><BR>"
                "Carrier Number: %2.2d<BR><BR>"
                "Execution Status: %25.25s<BR>",
                pDelInf->w_id, pDelInf->o_carrier_id, pDelInf-
>status);
        iLen+=sprintf(pszOutData + iLen,
                "</PRE><HR><BR>%s</FORM>%s", szMenuList,
szEndHtmlTag);
        /*
         * End of HTML generation for Delivery.
         */

        *piSendLen = iLen;
        return(FALSE);
}

/**
 ** bExecuteOrderStatus() processes the form data from POST submissions
 ** specific to the OrderStatus transaction.  It is called from bExecuteForm().
 **/
BOOL
bExecuteOrderStatus(char *pszInData, char *pszOutData, WORKER *
pWorker, int *piSendLen)
{
        ORD_INF       *pOrdInf;
        int                     iLen = 0;
        int           iLoop;
        char          *pszPtr;
        char           szWork2[50];
        char           szWork3[50];
        BOOL          bTxReturn;
        BOOL          bTxResult;
        int           iTxResult;

        /*
         * Set pTuxInData such that it conforms to the Order Status
(ORD_INF)
         * data structure.
         */
        pWorker->lTuxDataLen = sizeof(ORD_INF);
        pOrdInf = (ORD_INF *)pWorker->pTuxInData;
        pOrdInf->c_id = 0;
        pOrdInf->c_last[0] = 0;
        pOrdInf->w_id = pWorker->iWarehouseId;

        /*
         * Extract the district ID and check that it is within bounds.
         */
        if((pszPtr = pszExtractIntKey(&pOrdInf->d_id, pszInData,
"DID*=",
                pWorker)) == NULL)
        {
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
```

```
        }

        if(pOrdInf->d_id < 1)
    {
                sprintf(pWorker->szErrorTxt,
                        "DId Invalid - (%d)",
                         pOrdInf->d_id);
                pWorker->iStatusId = ERR_DID_INVALID;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }

        /*
         * Extract the customer ID and check its validity.
         */
        if((pszPtr = pszExtractIntKey(&pOrdInf->c_id, pszPtr, "CID*=",
                pWorker)) == NULL)
        {
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }
        if((pszPtr = pszExtractStringKey(pOrdInf->c_last, pszPtr,
"CLT*=",
                pWorker, NAME_LEN)) == NULL)
        {
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }
        if(pOrdInf->c_id == 0 && pOrdInf->c_last[0] == 0)
        {
                strcpy(pWorker->szErrorTxt,
                        "Error - Customer Id and Name Empty");
                pWorker->iStatusId = ERR_IDANDNAME_EMPTY;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }
        if(pOrdInf->c_id != 0 && pOrdInf->c_last[0] != 0)
        {
                strcpy(pWorker->szErrorTxt,
                     "Error - Specify Customer Id or Name, not Both");
                pWorker->iStatusId =
ERR_IDANDNAME_ENTERED;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }

        /*
         * Perform the Tuxedo transaction.
         */
        bTxReturn = bTuxTran(ORDERSTATUS, pWorker, &bTxResult,
&iTxResult);

        /*
         * Check to make sure Tuxedo call was successful.
         */
        pOrdInf = (ORD_INF *)pWorker->pTuxOutData;  /* ??redundant
OutData */
        if(bTxReturn)
        {
                pWorker->iStatusId = ERR_TUX_INTERFACE;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }
        if(bTxResult)
        {
                sprintf(pWorker->szErrorTxt,
                        "Order Status Service Returned
Error(%ld) :",
                        iTxResult);
                pWorker->iStatusId = ERR_SERVICE_RSLT;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }

        /*
         * Now package up the return data from the database in HTML
format.
         */
        iLen = iLayoutRespHdr(pszOutData, "TPC-C Order-Status",
pWorker);
        iLen+=sprintf(pszOutData + iLen,
                "<PRE>                          Order-Status<BR>"
                "Warehouse: %4.4d   District: %2.2d<BR>",
                pOrdInf->w_id, pOrdInf->d_id);
        iLayoutHTMLString(pWorker->szWork, pOrdInf->c_first,
NAME_LEN);
        iLayoutHTMLString(szWork2, pOrdInf->c_middle, 2);
        iLayoutHTMLString(szWork3, pOrdInf->c_last, NAME_LEN);
        iLen+=sprintf(pszOutData + iLen,
                "Customer: %4.4d   Name: %s %s %s<BR>"
                "Cust-Balance: $%9.2f<BR><BR>",
                pOrdInf->c_id, pWorker->szWork, szWork2, szWork3,
                pOrdInf->c_balance);
        iLen+=sprintf(pszOutData + iLen,
        "Order-Number: %8.8d   Entry-Date: %s   Carrier-Number:
%2.2d<BR>"
        "Supply-W    Item-Id   Qty    Amount     Delivery-Date<BR>",
        pOrdInf->o_id, pOrdInf->o_entry_d,
        pOrdInf->o_carrier_id);

        /*
         * generate the order line information for this order status
         * transaction
         */
        for(iLoop = 0; iLoop < pOrdInf->o_ol_cnt; iLoop++)
        {
                iLen+=sprintf(pszOutData + iLen,
                    "  %4.4d      %6.6d     %2.2d     $%7.2f
%s<BR>",
                        pOrdInf->s_ol[iLoop].ol_supply_w_id,
                        pOrdInf->s_ol[iLoop].ol_i_id,
                        pOrdInf->s_ol[iLoop].ol_quantity,
                        pOrdInf->s_ol[iLoop].ol_amount,
                        pOrdInf->s_ol[iLoop].ol_delivery_d);
        }
        iLen+=sprintf(pszOutData + iLen,
                "<BR></PRE><HR><BR>%s</FORM>%s",
szMenuList, szEndHtmlTag);
        /*
         * End of HTML generation for Order Status.
         */

        *piSendLen = iLen;
        return(FALSE);
}

/**
 ** bExecuteStockLevel() processes the form data from POST submissions
specific
 ** to the Stock Level transaction.  It is called from bExecuteForm().
 **/
BOOL
bExecuteStockLevel(char *pszInData, char *pszOutData, WORKER *
pWorker, int *piSendLen)
{
        STOCK_INF       *pStockInf;
        int                     iLen = 0;
        BOOL            bTxReturn;
        BOOL            bTxResult;
        int             iTxResult;

        /*
         * Set pTuxInData such that it conforms to the Stock Level
(STOCK_INF)
         * data structure.
         */
        pWorker->lTuxDataLen = sizeof(STOCK_INF);
        pStockInf = (STOCK_INF *)pWorker->pTuxInData;
        pStockInf->w_id = pWorker->iWarehouseId;
        pStockInf->d_id = pWorker->iDistrictId;
        pStockInf->low_stock = 0;

        /*
         * Extract the threshold level and make sure it is valid.
         */
        if(pszExtractIntKey(&pStockInf->thresh_hold, pszInData,
"THR*=",
                pWorker) == NULL)
        {
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
        }
        /*
         if(pStockInf->thresh_hold < MIN_THRESHOLD
         || pStockInf->thresh_hold > MAX_THRESHOLD)
         {
                sprintf(pWorker->szErrorTxt,
                        "Threshold Out of Range(%ld,%ld) - %ld",
                        MIN_THRESHOLD,
MAX_THRESHOLD, pStockInf->thresh_hold);
                pWorker->iStatusId = ERR_THRESHOLD_RANGE;
                *piSendLen = iLayoutMenu(pszOutData, pWorker);
                return(TRUE);
         }
```

```
  */
     if(pStockInf->thresh_hold < 1)
     {
          sprintf(pWorker->szErrorTxt, "Threshold Out of
Range");
          pWorker->iStatusId = ERR_THRESHOLD_RANGE;
          *piSendLen = iLayoutMenu(pszOutData, pWorker);
          return(TRUE);
     }
    /*
     * Perform the Tuxedo transaction.
     */
    bTxReturn = bTuxTran(STOCKLEVEL, pWorker, &bTxResult,
&iTxResult);
    pStockInf = (STOCK_INF *)pWorker->pTuxOutData;  /* ??
redundant OutData */
    if(bTxReturn)
    {
        pWorker->iStatusId = ERR_TUX_INTERFACE;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }
    if(bTxResult)
    {
        sprintf(pWorker->szErrorTxt,
            "Stock Level Service Returned
Error(%ld) :",
            iTxResult);
        pWorker->iStatusId = ERR_SERVICE_RSLT;
        *piSendLen = iLayoutMenu(pszOutData, pWorker);
        return(TRUE);
    }

    /*
     * Now package up the return data from the database in HTML
format.
     */
    iLen = iLayoutRespHdr(pszOutData, "TPC-C Stock Level",
pWorker);
    iLen+=sprintf(pszOutData + iLen,
        "<PRE>                    Stock-Level<BR>"
        "Warehouse: %4.4d   District: %2.2d<BR><BR>"
        "Stock Level Threshold: %2.2d<BR><BR>"
        "Low Stock: %3.3ld</PRE><BR><HR>"
        "%s</FORM>%s",
        pWorker->iWarehouseId, pWorker->iDistrictId,
        pStockInf->thresh_hold, pStockInf->low_stock,
        szMenuList, szEndHtmlTag);
    *piSendLen = iLen;
    /*
     * End of HTML generation for Stock Level.
     */
    return(FALSE);
}

/**
 ** bExtractHidden() finds and extracts the hidden values for TRID (terminal
 ** ID), WKID (worker ID), and SCID (screen ID).  These are submitted as
 ** name/value pairs via an emulated user's POST command.  These tags are
 ** referred to as "hidden" because they use the <INPUT
TYPE="HIDDEN"> HTML
 ** markup, which is used to send fixed values automatically with POST
 ** commands.
 **
 ** Called by uiServiceRequest().
 **/
BOOL
bExtractHidden(char *pszMessage, unsigned int *uScreenId, int *iWorkerId,
                    int *iTerminalId)
{
    char        *pszPtr;
    BOOL        bStatus = TRUE;

    /*
     * Extract TRID.
     */
    pszPtr = strstr(pszMessage, TRID);
    if(pszPtr == NULL)
        goto xit;
    pszPtr += 5;
    *iTerminalId = atoi(pszPtr);

    /*
     * Extract WKID.
     */
    pszPtr = strstr(pszMessage, WKID);
    if(pszPtr == NULL)
        goto xit;
    pszPtr += 5;
    *iWorkerId = atoi(pszPtr);

    /*
     * Extract SCID.
     */
    pszPtr = strstr(pszMessage, SCID);
    if(pszPtr == NULL)
        goto xit;
    pszPtr += 5;
    *uScreenId = abs(atoi(pszPtr));
    bStatus = FALSE;
xit:
    return(bStatus);
}

/**
 ** uiExtractCmd() finds and extracts the value associated with the CMD tag.
 **
 ** Called by uiServiceRequest().
 **/
unsigned int
uiExtractCmd(char *pszMessage, char *pWork, unsigned int uiLen)
{
    unsigned int    u;
    char        *pszPtr;
    char        *pUpd;

    /*
     * Check for CMD key.
     */
    if(!(pszPtr = strstr(pszMessage, CMD)))
        return(0);
    pszPtr += 4;
    pUpd = pWork;
    while(*pszPtr && *pszPtr != '&' && *pszPtr != '\r' && *pszPtr !
= '\n')
        *pUpd++ = *pszPtr++;
    *pUpd = 0;

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

    /*
     * Command string not found.
     */
    return(0);
}

/**
 ** pszExtractLongKey() finds and extracts the value associated with the
 ** variable pszKeyVal and stores it in a long variable.
 **/
char *
pszExtractLongKey(long *lpResult, char *pszHTML, const char
*pszKeyVal, WORKER * pWorker)
{
    char        *pszRet;
    char        *pszWork;
    if((pszRet = pszExtractKeyValue(pszHTML, pszKeyVal,
&pszWork,
        ALT_SIZEW)) == NULL)
    {
        sprintf(pWorker->szErrorTxt,
            "Error - Missing %s Key", pszKeyVal);
        pWorker->iStatusId = ERR_MISSING_KEY;
        return(NULL);
    }
    if(*pszWork != 0)
    {
        if(bIsNumeric(pszWork))
        {
            sprintf(pWorker->szErrorTxt,
                "Error - %s Value Not
Numeric", pszKeyVal);
            pWorker->iStatusId =
ERR_NOT_NUMERIC;
            return(NULL);
        }
    }
```

```
        *lpResult = atol(pszWork);
        return(pszRet);
}

/**
 ** pszExtractIntKey() finds and extracts the value associated with the
 ** variable pszKeyVal and stores it in a int variable.
 **
 ** This function is called from various bExtract<transaction>() functions.
 **/
char *
pszExtractIntKey(int *ipResult, char *pszHTML, const char *pszKeyVal,
WORKER * pWorker)
{
        char        *pszRet;
        char        *pszWork;
        if((pszRet = pszExtractKeyValue(pszHTML, pszKeyVal,
&pszWork,
                ALT_SIZEW)) == NULL)
        {
                sprintf(pWorker->szErrorTxt,
                        "Error - Missing %s Key", pszKeyVal);
                pWorker->iStatusId = ERR_MISSING_KEY;
                return(NULL);
        }
        if(*pszWork != 0)
        {

                if(bIsNumeric(pszWork))
                {
                        sprintf(pWorker->szErrorTxt,
                                "Error - %s Value Not
Numeric", pszKeyVal);
                        pWorker->iStatusId =
ERR_NOT_NUMERIC;
                        return(NULL);
                }
        }
        *ipResult = atoi(pszWork);
        return(pszRet);
}

/**
 ** pszExtractShortKey() finds and extracts the value associated with the
 ** variable pszKeyVal and stores it in a short variable.
 **
 ** This function is called from various bExtract<transaction>() functions.
 **/
char *
pszExtractShortKey(short *spResult, char *pszHTML, const char
*pszKeyVal, WORKER *pWorker)
{
        char        *pszRet;
        char        *pszWork;
        if((pszRet = pszExtractKeyValue(pszHTML, pszKeyVal,
&pszWork,
                 ALT_SIZEW)) == NULL)
        {
                sprintf(pWorker->szErrorTxt,
                        "Error - Missing %s Key", pszKeyVal);
                pWorker->iStatusId = ERR_MISSING_KEY;
                return(NULL);
        }
        if(*pszWork != 0)
        {
                if(bIsNumeric(pszWork))
                {
                        sprintf(pWorker->szErrorTxt,
                                "Error - %s Value Not
Numeric", pszKeyVal);
                        pWorker->iStatusId =
ERR_NOT_NUMERIC;
                        return(NULL);
                }
        }
        *spResult = (short)atoi(pszWork);
        return(pszRet);
}

/**
 ** pszExtractWDIDKey() finds and extracts the value of the emulated user's
 ** Warehouse ID.
 **
 ** This function is called from uiServiceRequest().
 **/
char *
pszExtractWDIDKey(int *spResult, char *pszHTML, char *pszKeyVal,
WORKER *pWorker)
{
        char        *pszRet;
        char        *pszWork;
        char        *pszPtr;
        int        uiMax = ALT_SIZEW;
        pszRet = pszHTML;
        if(!(pszWork = strstr(pszHTML, pszKeyVal)))
                return(NULL);
        pszWork+=(ALT_SIZEA + 1);
        uiMax--;
        pszPtr = pWorker->szWork;
        while(*pszWork && *pszWork != '&' && uiMax)
        {
                *pszPtr++ = *pszWork++;
                uiMax--;
        }
        *pszPtr = 0;
        if(pWorker->szWork[0] != 0)
        {
                if(bIsNumeric(pWorker->szWork))
                {
                        sprintf(pWorker->szErrorTxt,
                                "Error - %s Value Not
Numeric", pszKeyVal);
                        pWorker->iStatusId =
ERR_NOT_NUMERIC;
                        return(NULL);
                }
        }
        *spResult = atoi(pWorker->szWork);
        return(pszRet);
}

/**
 ** pszExtractStringKey() finds and extracts the value associated with the
 ** variable pszKeyVal and stores it in a string.
 **
 ** This function is called from various bExtract<transaction>() functions.
 **/
char *
pszExtractStringKey(char *szResult, char *pszHTML, const char
*pszKeyVal,
                     WORKER * pWorker, unsigned int uiMax)
{
        unsigned int    uiLen;
        char        *pszRet;
        char        *pszWork;
        if((pszRet = pszExtractKeyValue(pszHTML, pszKeyVal,
&pszWork,
                ALT_SIZEW)) == NULL)
        {
                sprintf(pWorker->szErrorTxt,
                        "Error - Missing %s Key", pszKeyVal);
                pWorker->iStatusId = ERR_MISSING_KEY;
                return(NULL);
        }
        uiLen = strlen(pszWork);
        if(uiLen > uiMax)
        {
                sprintf(pWorker->szErrorTxt,
                        "Error - %s Key Input (%ld) Too Long
(%ld)"
                        ,pszKeyVal, uiLen, uiMax);
                pWorker->iStatusId = ERR_INPUT_TOO_LONG;
                return(NULL);
        }
        vToUpper(pszWork);
        strcpy(szResult, pszWork);
        return(pszRet);
}

/**
 ** pszExtractAmountKey() finds and extracts a dollar amount value
associated
 ** with the tag defined in variable pszKeyVal and stores it in a double.
 **
 ** This function is called from various bExtract<transaction>() functions.
 **/
char *
pszExtractAmountKey(double *dpResult, char *pszHTML, const char
*pszKeyVal,
                     WORKER *pWorker)
{
        char        *pszPtr;
        char        *pszRet;
        char        *pszWork;
```

```
	BOOL		bInvalid = FALSE;
	if((pszRet = pszExtractKeyValue(pszHTML, pszKeyVal,
&pszWork,
			ALT_SIZEW)) == NULL)
	{
		sprintf(pWorker->szErrorTxt,
			"Error - Missing %s Key", pszKeyVal);
		pWorker->iStatusId = ERR_MISSING_KEY;
		return(pszRet);
	}
	pszPtr = pszWork;
	while(*pszPtr)
	{
		if(*pszPtr == '.')
		{
			pszPtr++;
			if(!*pszPtr)
				break;
			if(*pszPtr < '0' || *pszPtr > '9')
			{
				bInvalid = TRUE;
				break;
			}
			pszPtr++;
			if(!*pszPtr)
				break;
			if(*pszPtr < '0' || *pszPtr > '9')
			{
				bInvalid = TRUE;
				break;
			}
			pszPtr++;
			if(*pszPtr)
			{
				bInvalid = TRUE;
				break;
			}
			break;
		} else if(*pszPtr < '0' || *pszPtr > '9')
		{
			bInvalid = TRUE;
			break;
		}
		pszPtr++;
	}
	if(!bInvalid)
		*dpResult = atof(pszWork);
	else
	{
		sprintf(pWorker->szErrorTxt,
		   "Error - Invalid Amount iLayout (%s)", pszWork);
		pWorker->iStatusId = ERR_AMOUNT_BADFORM;
		pszRet = NULL;
	}
	return(pszRet);
}

/**
 ** pszExtractKeyValue() finds and extracts the raw value associated with the
 ** variable pszKeyVal and stores it in a string.
 **
 ** This function is called from pszExtract<type>Key() functions which take
 ** the return values and convert them to their respective types.
 **/
char *
pszExtractKeyValue(char *pszHTML, const char *pszKeyVal, char
**pszValue,
				unsigned int uiMax)
{
		char		*pszPtr;
		char		*pszValue1;
		if(!(pszValue1 = strstr(pszHTML, pszKeyVal)))
		{
			*pszValue = NULL;
			return(NULL);
		}
		pszValue1+=(ALT_SIZEA + 1);
		*pszValue = pszValue1;
		uiMax--;
		if(!(pszPtr = strchr(pszValue1, '&')))
		{
			pszPtr = pszValue1;
			while(*pszPtr && *pszPtr != '&' && uiMax)
			{
				pszPtr++;
				uiMax--;
			}
		}
		*pszPtr = 0;
		pszPtr++;
		return(pszPtr);
}

/**
 ** iLayoutLogin() produces the HTML code segment for the TPC-C Login
Screen.
 **
 ** It is called by uiServiceRequest().
 **/
int
iLayoutLogin(char *pszOutData, WORKER *pWorker)
{
		int iLen = 0;
		char		szTemp[512];
		sprintf(szTemp, szLoginScreen, szPluginPath, pWorker-
>iStatusId);
		iLen = sprintf(pszOutData, "%s<BR>%s<BR>%s", szTemp,
				pWorker->szErrorTxt, szEndHtmlTag);
		return(iLen);
}

/**
 ** iLayoutMenu() produces the HTML code segment for the TPC-C Main
Menu.
 **
 ** It is called by uiServiceRequest().
 **/
int
iLayoutMenu(char *pszOutData, WORKER * pWorker)
{
		int iLen = 0;
		iLen = sprintf(pszOutData,
			"<HTML><HEAD><TITLE>TPC-C
MainMenu</TITLE></HEAD><BODY>"
			"Select Desired Transaction.<BR><HR>"
			"<FORM ACTION=\"%s\" METHOD=\"POST\">",
szPluginPath);
		iLen+=sprintf(pszOutData + iLen,
			"<INPUT TYPE=\"hidden\" NAME=\"STID\"
VALUE=\"%d\">"
			"<INPUT TYPE=\"hidden\" NAME=\"SCID\"
VALUE=\"%d\">"
			"<INPUT TYPE=\"hidden\" NAME=\"TRID\"
VALUE=\"%d\">"
			"<INPUT TYPE=\"hidden\" NAME=\"WKID\"
VALUE=\"%d\">"
			"<INPUT TYPE=\"hidden\" NAME=\"w_id\"
VALUE=\"%d\">"
			"<INPUT TYPE=\"hidden\" NAME=\"d_id\"
VALUE=\"%d\">",
			pWorker->iStatusId, SCREEN_MENU,
			pWorker->iTerminalId, pWorker->iWorkerId,
			pWorker->iWarehouseId, pWorker->iDistrictId);
		iLen+=sprintf(pszOutData + iLen, "%s</FORM><BR>%s<BR>
%s",
			szMenuList, pWorker->szErrorTxt, szEndHtmlTag);
		return(iLen);
}

/**
 ** iLayoutNewOrder() produces the HTML code for the New Order entry
screen
 **
 ** It is called by uiServiceRequest().
 **/
int
iLayoutNewOrder(char *pszOutData, WORKER * pWorker)
{
		int iLen = 0;
		pWorker->uScreenId = SCREEN_NEWORDER;
		iLen = iLayoutFormHdr(pszOutData, "TPC-C New Order",
pWorker);
		iLen+=sprintf(pszOutData + iLen,
		"<PRE>                          New Order<BR>"
		"Warehouse: %4.4d%s%s",
		pWorker->iWarehouseId,
		"   District: <INPUT NAME=\"DID*\" SIZE=2>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=\"S00*\" SIZE=4>  <INPUT NAME=\"I00*\"
```

```
SIZE=6>"
        "                       <INPUT NAME=\"Q00*\" SIZE=2><BR>"
        " <INPUT NAME=\"S01*\" SIZE=4>  <INPUT NAME=\"I01*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q01*\" SIZE=2><BR>"
        " <INPUT NAME=\"S02*\" SIZE=4>  <INPUT NAME=\"I02*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q02*\" SIZE=2><BR>"
        " <INPUT NAME=\"S03*\" SIZE=4>  <INPUT NAME=\"I03*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q03*\" SIZE=2><BR>"
        " <INPUT NAME=\"S04*\" SIZE=4>  <INPUT NAME=\"I04*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q04*\" SIZE=2><BR>"
        " <INPUT NAME=\"S05*\" SIZE=4>  <INPUT NAME=\"I05*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q05*\" SIZE=2><BR>"
        " <INPUT NAME=\"S06*\" SIZE=4>  <INPUT NAME=\"I06*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q06*\" SIZE=2><BR>"
        " <INPUT NAME=\"S07*\" SIZE=4>  <INPUT NAME=\"I07*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q07*\" SIZE=2><BR>"
        " <INPUT NAME=\"S08*\" SIZE=4>  <INPUT NAME=\"I08*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q08*\" SIZE=2><BR>"
        " <INPUT NAME=\"S09*\" SIZE=4>  <INPUT NAME=\"I09*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q09*\" SIZE=2><BR>"
        " <INPUT NAME=\"S10*\" SIZE=4>  <INPUT NAME=\"I10*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q10*\" SIZE=2><BR>"
        " <INPUT NAME=\"S11*\" SIZE=4>  <INPUT NAME=\"I11*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q11*\" SIZE=2><BR>"
        " <INPUT NAME=\"S12*\" SIZE=4>  <INPUT NAME=\"I12*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q12*\" SIZE=2><BR>"
        " <INPUT NAME=\"S13*\" SIZE=4>  <INPUT NAME=\"I13*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q13*\" SIZE=2><BR>"
        " <INPUT NAME=\"S14*\" SIZE=4>  <INPUT NAME=\"I14*\"
SIZE=6>"
        "                       <INPUT NAME=\"Q14*\" SIZE=2><BR>"
        "Execution Status:                              "
        "Total:<BR><HR>"
        "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Execute\">"
        "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Menu\">"
        "</FORM>", szEndHtmlTag);
        return(iLen);
}

/**
 ** iLayoutPayment() produces the HTML code for the Payment entry screen
 **
 ** It is called by uiServiceRequest().
 **/
int
iLayoutPayment(char *pszOutData, WORKER * pWorker)
{
        int iLen = 0;
        pWorker->uScreenId = SCREEN_PAYMENT;
        iLen = iLayoutFormHdr(pszOutData, "TPC-C Payment",
pWorker);
        iLen+=sprintf(pszOutData + iLen,
                "<PRE>                          Payment<BR>"
                "Date:<BR><BR>"
                "Warehouse: %4.4d%s%s",
                pWorker->iWarehouseId,
                "                       District: <INPUT NAME=\"DID*\" "
                "SIZE=2><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>"
                "Name:                  <INPUT NAME=\"CLT*\"
SIZE=16> "
                "Since:<BR>"
                "                                       Credit:<BR>"
                "                                       Disc:<BR>"
                "                                       Phone:<BR>"
                "<BR>"
                "Amount Paid:       $<INPUT NAME=\"HAM*\"
SIZE=7>     "
                "New Cust Balance:<BR>"
                "Credit Limit:<BR><BR>Cust-Data:
<BR><BR><BR><BR></PRE><HR>"
                "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Execute\">"
                "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Menu\">"
                "</FORM>", szEndHtmlTag);
        return(iLen);
}

/**
 ** iLayoutDelivery() produces the HTML code for the Delivery entry screen
 **
 ** It is called by uiServiceRequest().
 **/
int
iLayoutDelivery(char *pszOutData, WORKER * pWorker)
{
        int iLen = 0;
        pWorker->uScreenId = SCREEN_DELIVERY;
        iLen = iLayoutFormHdr(pszOutData, "TPC-C Delivery",
pWorker);
        iLen+=sprintf(pszOutData + iLen,
                "<PRE>                          Delivery<BR>"
                "Warehouse: %4.4d%s%s",
                pWorker->iWarehouseId,
                "<BR><BR>"
                "Carrier Number: <INPUT NAME=\"OCD*\"
SIZE=2><BR><BR>"
                "Execution Status:<BR></PRE><HR>"
                "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Execute\">"
                "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Menu\">"
                "</FORM>", szEndHtmlTag);
        return(iLen);
}

/**
 ** iLayoutOrderStatus() produces the HTML code for the Order Status entry
 ** screen
 **
 ** It is called by uiServiceRequest().
 **/
int
iLayoutOrderStatus(char *pszOutData, WORKER * pWorker)
{
        int iLen = 0;
        pWorker->uScreenId = SCREEN_ORDERSTATUS;
        iLen = iLayoutFormHdr(pszOutData, "TPC-C Order-Status",
pWorker);
        iLen+=sprintf(pszOutData + iLen,
                "<PRE>                          Order-Status<BR>"
                "Warehouse: %4.4d   %s%s",
                pWorker->iWarehouseId,
                "District: <INPUT NAME=\"DID*\" SIZE=2><BR>"
                "Customer: <INPUT NAME=\"CID*\" SIZE=4>
Name: "
                "<INPUT NAME=\"CLT*\" SIZE=23><BR>"
                "Cust-Balance:<BR><BR>"
                "Order-Number:          Entry-Date:"
                "                       Carrier-Number:<BR>"
                "Supply-W    Item-Id   Qty    Amount     "
                "Delivery-Date<BR></PRE><HR>"
                "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Execute\">"
                "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Menu\">"
                "</FORM>", szEndHtmlTag);
        return(iLen);
}

/**
 ** iLayoutStockLevel() produces the HTML code for the Stock Level entry
 ** screen
 **
 ** It is called by uiServiceRequest().
 **/
int
iLayoutStockLevel(char *pszOutData, WORKER * pWorker)
{
        int iLen = 0;
        pWorker->uScreenId = SCREEN_STOCKLEVEL;
        iLen = iLayoutFormHdr(pszOutData, "TPC-C Stock Level",
pWorker);
        iLen+=sprintf(pszOutData + iLen,
```

```
        "<PRE>                          Stock-Level<BR>"
        "Warehouse: %4.4d   District: %2.2d%s%s",
        pWorker->iWarehouseId, pWorker->iDistrictId,
        "<BR><BR>"
        "Stock Level Threshold: <INPUT
NAME=\"THR*\"SIZE=2><BR><BR>"
        "low stock:    <BR><HR>"
        "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Execute\">"
        "<INPUT TYPE=\"submit\"NAME=\"CMD\"
VALUE=\"Menu\">"
        "</FORM>", szEndHtmlTag);
    return(iLen);
}

/**
 ** iLayoutFormHdr() generates a string of pre-formatted HTML including
hidden
 ** tags containing warehouse, district, screen, and terminal information
 ** for a new form to be filled in by an emulated user.
 **
 ** This function is called by the iLayout<transaction>() functions, i.e.,
 ** it is used to create entry forms for all of the transacation screens.
 **/
int
iLayoutFormHdr(char *pszOutData, char *pszHeader, WORKER * pWorker)
{
    int iLen = 0;
    iLen = sprintf(pszOutData,
        "<HTML><HEAD><TITLE>%s</TITLE></HEAD>"
        "<FORM ACTION=\"%s\" METHOD=\"POST\">"
        "<INPUT TYPE=\"hidden\" NAME=\"PI*\"
VALUE=\"\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STID\"
VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SCID\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TRID\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"WKID\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"w_id\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"d_id\"
VALUE=\"%d\">",
        pszHeader, szPluginPath, pWorker->uScreenId,
        pWorker->iTerminalId, pWorker->iWorkerId,
        pWorker->iWarehouseId, pWorker->iDistrictId);
    return(iLen);
}

/**
 ** iLayoutRespHdr() generates a string of pre-formatted HTML including
hidden
 ** tags containing warehouse, district, screen, and terminal information
 ** for a response to a submitted form from an emulated user.
 **
 ** This function is called by the bExecute<transaction>() functions.
 **/
int
iLayoutRespHdr(char *pszOutData, char *pszHeader, WORKER * pWorker)
{
    int iLen = 0;
    iLen = sprintf(pszOutData,
        "<HTML><HEAD><TITLE>%s</TITLE></HEAD>"
        "<FORM ACTION=\"%s\" METHOD=\"POST\">"
        "<INPUT TYPE=\"hidden\" NAME=\"w_id\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"d_id\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STID\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SCID\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TRID\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"WKID\"
VALUE=\"%d\">",
        pszHeader, szPluginPath, pWorker->iWarehouseId,
        pWorker->iDistrictId,
        pWorker->iStatusId, pWorker->uScreenId,
        pWorker->iTerminalId, pWorker->iWorkerId);
    return(iLen);
}

/**
 ** iLayoutHTMLString() converts the native string data into HTML-
compliant
 ** data.  This is mainly to change special punctuation to HTML &xxx;
 ** sequences so browsers can parse the HTML correctly.
 **/
int
iLayoutHTMLString(char *pszOutData, char *pszInData, unsigned int
uiLen)
{
    int iLen = 0;
    while(uiLen && *pszInData)
    {
        switch (*pszInData)
        {
            case '>':
            *pszOutData++ = '&';
            *pszOutData++ = 'g';
            *pszOutData++ = 't';
            *pszOutData++ = ';';
            pszInData++;
            iLen+=4;
            break;
        case '<':
            *pszOutData++ = '&';
            *pszOutData++ = 'l';
            *pszOutData++ = 't';
            *pszOutData++ = ';';
            pszInData++;
            iLen+=4;
            break;
        case '&':
            *pszOutData++ = '&';
            *pszOutData++ = 'a';
            *pszOutData++ = 'm';
            *pszOutData++ = 'p';
            *pszOutData++ = ';';
            pszInData++;
            iLen+=5;
            break;
        case '\"':
            *pszOutData++ = '&';
            *pszOutData++ = 'q';
            *pszOutData++ = 'u';
            *pszOutData++ = 'o';
            *pszOutData++ = 't';
            *pszOutData++ = ';';
            pszInData++;
            iLen+=6;
            break;
        default:
            *pszOutData++ = *pszInData++;
            iLen++;
            break;
        }
        uiLen--;
    }
    while(uiLen--)
    {
        *pszOutData++ = ' ';
        iLen++;
    }
    *pszOutData = 0;
    return(iLen);
}

int iLayoutString(char *pszOutData, const char *pszPicture, char
*pszInData)
{
    int iLen = 0;
    while(*pszPicture)
    {
        if(*pszPicture == 'X')
        {
            if(*pszInData)
                *pszOutData++ = *pszInData+
+;
            else
                *pszOutData++ = ' ';
        } else
            *pszOutData++ = *pszPicture;
        pszPicture++;
        iLen++;
    }
    *pszOutData = 0;
    return(iLen);
}

void vStringCopy(char *pszDest, char *pszSrc, int iBytes)
```

```
{
            strncpy(pszDest, pszSrc, iBytes);
            pszDest[iBytes] = '\0';
            return;
}
/**
 ** bIsNumeric checks to make sure a string contains a numeric value.
 **
 ** Called from pszExtractLongKey(), et al.
 **/
BOOL bIsNumeric(char *pszNum)
{
      if(*pszNum == 0)
            return(TRUE);
            if (pszNum[0] == '-'){
         pszNum++;
      }
      while(*pszNum && isdigit(*pszNum))
            pszNum++;
      return(*pszNum);
}


/**
 ** vToUpper -- simple function to convert string to all upper-case letters.
 **
 ** Called from pszExtractStringKey() to make all key parsing consistent.
 **/
void vToUpper(char *szArg)
{
            char        *szPtr = szArg;
            for(; *szPtr; szPtr++)
            {
                        *szPtr = toupper(*szPtr);
            }
}
```

tpccService.h

```
#ifndef __TPCCSERVICEH__
#define __TPCCSERVICEH__
#include "tpcc.h"
uint uiServiceRequest(WORKER *, char *, char *, int *);
#endif
```

tpccBooh.h

```
#ifndef __TPCCBOOLH__
#define __TPCCBOOLH__
#ifdef TRUE
#undef TURE
#endif
#ifdef FALSE
#undef FALSE
#endif
typedef enum
                              {
                                          FALSE = 0,
                                          TRUE  = 1
                              } BOOL;
#endif
```

tpccConst.h

```
#ifndef __TPCCCONSTH__
#define __TPCCCONSTH__
/* ServiceRequest return codes*/
#define SEND       1
#define SENDCLOSE   2

#define NEWORDER    "NEWO"
#define PAYMENT     "PAYM"
#define ORDERSTATUS "ORDS"
#define STOCKLEVEL  "STOCK"
#define DELIVERY    "DEL"

/* TPCC Service return codes*/
#define SVC_BADITEMID      1
#define SVC_NOERROR        0
#define SVCERR_DEADLOCK   -1
#define SVCERR_NOCUSTOMER -2
#define SVCERR_NOORDERS   -3
#define SVCERR_DBLIB      -4

/* Min/Max/Len Data Definitions*/
#define MIN_DID           1
#define MAX_DID            10
#define MIN_OL            5
#define MAX_OL             15
#define MIN_QUANTITY       1
#define MAX_QUANTITY       10
#define MIN_ITEM_ID        1
#define MAX_ITEM_ID        100000
#define MIN_CUST_ID        1
#define MAX_CUST_ID        3000
#define MIN_CARRIER        1
#define MAX_CARRIER        10
#define MIN_THRESHOLD      10
#define MAX_THRESHOLD      20
#define MAX_MSG_SZ         4096 /*Should Be Equal To Net Buf Size*/
#define MAX_DIAG_SZ        2000
#define STATUS_LEN         200
#define NAME_LEN           16
#define ADDR_LEN           20
#define ZIP_LEN            10
#define STATE_LEN          2

/* pTPCC->iStatusId codes*/
#define INVALID_ITEM_ID          1
#define STATUS_OK                0
#define ERR_CMD_UNKNOWN          -10
#define ERRTXT_CMD_UNKNOWN       "Unrecognized Command"
#define ERR_ALREADY_LOGGEDIN     -11
#define ERRTXT_ALREADY_LOGGEDIN  "Already Logged In"
#define ERR_TRID                 -12
#define ERRTXT_TRID              "Terminal Id or Worker Id Error"
#define ERR_SCREEN_UNKNOWN       -13
#define ERRTXT_SCREEN_UNKNOWN    "Unrecognized Screen Id"
#define ERR_WID_INVALID          -14
#define ERR_DID_INVALID          -15
#define ERR_MISSING_KEY          -16
#define ERR_NOT_NUMERIC          -17
#define ERR_THRESHOLD_RANGE      -18
#define ERR_EMBEDDED_EMPTY_OL    -19
#define ERR_QUANTITY_INVALID     -20
#define ERR_OL_INVALID           -21
#define ERR_OL_COUNT             -22
#define ERR_TUX_INTERFACE        -23
#define ERR_SERVICE_RSLT         -24
#define ERR_INPUT_TOO_LONG       -25
#define ERR_IDANDNAME_EMPTY      -26
#define ERR_IDANDNAME_ENTERED    -27
#define ERR_AMOUNT_BADFORM       -28
#define ERR_AMOUNT_INVALID       -29
#define ERR_CARRIER_INVALID      -30
#define ERR_CID_INVALID          -31
#define ERR_MANDATORY_FIELD      -32

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

/* Environment variable defaults */
#define DEFAULTDIAGLEVEL DIAG_INFO
#define DEFAULTEVENTLOG  0
#define DIAGNOSTICS      TRUE
#endif
```

tpccData.h

```
#ifndef __TPCCH__
#define __TPCCH__
#include <atmi.h>                 /* TUXEDO */
#include <Uunix.h>                /* TUXEDO */
#include <userlog.h>              /* TUXEDO */

typedef struct
{
  int       iWarehouseId;         /* TPCC WareHouse Id*/
  int       iDistrictId;          /* TPCC District Id*/
  int       iWorkerId;            /* TPCC Worker Thread Id*/
  int       iTerminalId;          /* TPCC Terminal Id*/
  uint      uScreenId;            /* TPCC Screen Id*/
  int       iStatusId;    /* TPCC Status Id*/
  BOOL      bRequestForm;         /* TPCC Form Requested*/
  char      szErrorTxt[200];  /* Error Text*/
  char      szWork[100];          /* Thread Work Area*/
  char      *pTuxInData;          /* Tux Buffer Area*/
  char      *pTuxOutData;         /* Tux Buffer Area*/
  long      lTuxDataLen;          /* Tux Buffer Len*/
  TPINIT *pTpInf;        /* TUXEDO MULTICONTEXT*/
} WORKER;

#endif
```

tpcc.h

```
/***
 *** tpcc.h
 *** (c) 2006 Sun Microsystems, Inc.  All rights reserved.
 ***
 *** For iWS/Tuxedo client definitions.  Must be in synch
 ***    with ../vendor/oracle/multi-svrs
 ***
 ***/

#ifndef __TPCCH__
#define __TPCCH__
#include <atmi.h>              /* TUXEDO */
#include <Uunix.h>              /* TUXEDO */
#include <userlog.h>            /* TUXEDO */
#include "tpccBool.h"
#include "tpccConst.h"
typedef struct items_inf
{
        int    ol_supply_w_id;
        int    ol_i_id;
        char   ol_i_name[25];
        int    ol_quantity;
        int    ol_stock;
        char   ol_brand_generic[2];
        double ol_i_price;
        double ol_amount;
} ITEMS_INF;
typedef struct newo_inf
{
        int       w_id;
        int       d_id;
        int       c_id;
        int       o_id;
        int       o_ol_cnt;
        double    c_discount;
        double    w_tax;
        double    d_tax;
        char      o_entry_d[20];
        char      c_credit[3];
        char      c_last[17];
        ITEMS_INF o_ol[MAX_OL];
        char      status[25];
        double    total_amount;
} NEWO_INF;
typedef struct pay_inf
{
        int    w_id;
        int    d_id;
        int    c_id;
        int    c_w_id;
        int    c_d_id;
        double h_amount;
        double c_credit_lim;
        double c_balance;
        double c_discount;
        char   h_date[20];
        char   w_street_1[21];
        char   w_street_2[21];
        char   w_city[21];
        char   w_state[3];
        char   w_zip[11];
        char   d_street_1[21];
        char   d_street_2[21];
        char   d_city[21];
        char   d_state[3];
        char   d_zip[11];
        char   c_first[17];
        char   c_middle[3];
        char   c_last[17];
        char   c_street_1[21];
        char   c_street_2[21];
        char   c_city[21];
        char   c_state[3];
        char   c_zip[11];
        char   c_phone[17];
        char   c_since[11];
        char   c_credit[3];
    char   c_data[201];
} PAY_INF;
typedef struct ord_itm_inf
{
        int    ol_supply_w_id;
        int    ol_i_id;
        int    ol_quantity;
        double ol_amount;
        char   ol_delivery_d[11];
} ORD_ITM_INF;
typedef struct ord_inf
{
        int        o_ol_cnt;
        int        w_id;
        int        d_id;
        int        c_id;
        int        o_id;
        int        o_carrier_id;
        double     c_balance;
        char       c_first[17];
        char       c_middle[3];
        char       c_last[17];
        char       o_entry_d[20];
        ORD_ITM_INF s_ol[MAX_OL];
} ORD_INF;
typedef struct del_inf
{
        int  w_id;
        int  o_carrier_id;
        char status[26];
} DEL_INF;
/* Structure used to queue delivery transaction */
typedef struct req_del
{
        int    w_id;
        int    o_carrier_id;
        time_t qtime;       /* Time transaction was queued */
} REQ_DEL;
typedef struct stock_inf
{
        int w_id;
        int d_id;
        int thresh_hold;
        int low_stock;
} STOCK_INF;

typedef struct
{
        unsigned int uiThrId;    /* thread ID */
        int  iWarehouseId;     /* TPCC WareHouse Id*/
        int  iDistrictId;      /* TPCC District Id*/
        int    iWorkerId;        /* TPCC Worker Thread Id*/
        int    iTerminalId;      /* TPCC Terminal Id*/
        uint   uScreenId;        /* TPCC Screen Id*/
        int    iStatusId;        /* TPCC Status Id*/
        BOOL   bRequestForm;     /* TPCC Form Requested*/
        char   szErrorTxt[200];  /* Error Text*/
        char   szWork[100];      /* Thread Work Area*/
        char   szRequestData[16384];
        char   szReturnData[24576];   /* was 16384 */
        char   *pTuxInData;      /* Tux Buffer Area*/
        char   *pTuxOutData;     /* Tux Buffer Area*/
        long   lTuxDataLen;      /* Tux Buffer Len*/
        TPINIT *pTpInf;          /* TUXEDO MULTICONTEXT */
        TPCONTEXT_T tpxContext;  /* Tuxedo Context */
} WORKER;

WORKER *pGlobalWorkerArray;

#endif
```

MULTI_SVR

ora_errrpt.c

```
/*
 * Copyright (c) 1995 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)ora_errrpt.c 1.1          95/09/14    SMI"

/*
 * these functions actually belong in ~dbbench/generic/c/msgh_log.c.  We put
them
 * here because they have database specific statements.
 */

#include "ora_err.h"
#include "ora_oci.h"

errrpt(lda, cur, sqlvar)
ldadef *lda;
csrdef *cur;
text          *sqlvar;
{
        text msg[2048];
/*      if (cur->rc) { */
```

```
                oerhms(lda, (sb2) cur->rc, msg, 2048);
                userlog("%s sql_variable %s\n", msg, sqlvar);

        if (cur->rc == DEADLOCK || (cur->rc ==
SNAPSHOT_TOO_OLD))
            return(RECOVERR);
        else
            return(IRRECERR);

/*          } */
}

/* vmm313 void ocierror(fname, lineno, errhp, status)  */
int ocierror(fname, lineno, errhp, status)
char *fname;
int lineno;
OCIError *errhp;
sword status;
{
  text errbuf[512];
  ub4 buflen;
  sb4 errcode;
  sb4 lstat ;
  ub4 recno=2 ;

  switch (status) {
  case OCI_SUCCESS:
    break;
  case OCI_SUCCESS_WITH_INFO:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - OCI_SUCCESS_WITH_INFO\n");
  break;
  case OCI_NEED_DATA:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - OCI_NEED_DATA\n");
     return (IRRECERR);
  case OCI_NO_DATA:
    /*
      (void) userlog("Module %s Line %d\n", fname, lineno);
      (void) userlog("Error - OCI_NO_DATA\n");
    */
    return IRRECERR;      /* for 8.1.4 */
  break;
  case OCI_ERROR:
    lstat = OCIErrorGet (errhp, (ub4) 1,
              (text *) NULL, &errcode, errbuf,
                  (ub4) sizeof(errbuf), OCI_HTYPE_ERR);
              if (errcode == NOT_SERIALIZABLE) return (errcode);
    while (lstat != OCI_NO_DATA)
    {
              (void) userlog("Module %s Line %d\n", fname, lineno);
              (void) userlog("Error - %s\n", errbuf);
              lstat = OCIErrorGet (errhp, recno++, (text *) NULL, &errcode,
errbuf,
                      (ub4) sizeof(errbuf), OCI_HTYPE_ERROR);
    }
    return (errcode);
  break;
  case OCI_INVALID_HANDLE:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - OCI_INVALID_HANDLE\n");
  break;
  case OCI_STILL_EXECUTING:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - OCI_STILL_EXECUTE\n");
   return (IRRECERR);
  case OCI_CONTINUE:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - OCI_CONTINUE\n");
  return (IRRECERR);
  default:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - \n");
    return (IRRECERR);
  }
  return RECOVERR;
}
```

ora_err.h

```
/*
 * Copyright (c) 1994 by Sun Microsystems, Inc.
 */

#ifndef ORA_ERR_H
#define ORA_ERR_H

#pragma ident "@(#)ora_err.h     1.4       95/09/14    SMI"
/*
 * this kludge is required because Oracle does not provide
 *          symbolic constants in a header file
 */

#define     EDEADLOK          60
#define     SQLNOTFOUND       1403
#define     COLUMN_NULL       -1405
#define     EDUPLICATE        -1
#define     RECOVERR          -10
#define     IRRECERR          -20
#define     NOERR             111
#define     DEL_ERROR         -666
#define     DEL_DATE_LEN      7
#define     SQL_BUF_SIZE      8192

#endif ORA_ERR_H
```

tpcc_srv.del.c

```
/*
 * Copyright (c) 1994 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)tpcso_srv_del.pc        1.5        94/12/07    SMI"

/
*===========================================================
============+
|      Copyright (c) 1996  Oracle Corp, Redwood Shores, CA      |
|              OPEN SYSTEMS PERFORMANCE GROUP              |
|                  All Rights Reserved                  |
+===========================================================
============+
| FILENAME
|    pldel.c
| DESCRIPTION
|    OCI version of DELIVERY transaction in TPC-C benchmark.
+===========================================================
============*/
#ifndef ORA_TPCC
# define ORA_TPCC
# include "tpcc.h"
#endif

#include <stdlib.h>
#include <unistd.h>
#include <sys/signal.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/msg.h>
#include <sys/utsname.h>
#include <errno.h>
#include <stdio.h>
/* #include "ora_err.h" */

/* Tuxedo */
#include "atmi.h"
#include "userlog.h"



#define MOVETO(element, struct_name) element = struct_name -> element
#define MOVEBACK(element, struct_name) struct_name -> element =
element

#include "tpccflags.h"

#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
#define SQLTXT0 "SELECT substr(value,1,5) FROM v$parameter \
   WHERE name = 'instance_number'"
#endif

#define SQLTXT "BEGIN inittpcc.init_del ; END;"

#define SQLTXT1 "DELETE FROM nord WHERE no_d_id = :d_id \
            AND no_w_id = :w_id and rownum <= 1 \
           RETURNING no_o_id into :o_id "

#define SQLTXT3 "UPDATE ordr SET o_carrier_id = :carrier_id \
            WHERE o_id = :o_id and o_d_id = :d_id and o_w_id = :w_id \
            returning o_c_id into :o_c_id"

#define SQLTXT4 "UPDATE ordl \
   SET ol_delivery_d = :cr_date \
   WHERE ol_w_id = :w_id AND ol_d_id = :d_id AND ol_o_id = :o_id \
   RETURNING sum(ol_amount) into :ol_amount "

#define SQLTXT6 "UPDATE cust SET c_balance = c_balance + :amt, \
```

```
  c_delivery_cnt = c_delivery_cnt + 1 WHERE c_w_id = :w_id AND \
  c_d_id = :d_id AND c_id = :c_id"

#define NDISTS 10
#define ROWIDLEN 20


struct delctx {
  sb2 del_o_id_ind[NDISTS];
  sb2 d_id_ind[NDISTS];
  sb2 c_id_ind[NDISTS];
  sb2 del_date_ind[NDISTS];
  sb2 carrier_id_ind[NDISTS];
  sb2 amt_ind[NDISTS];
#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
  sb2 inum_ind;
#endif

  ub4 del_o_id_len[NDISTS];
  ub4 c_id_len[NDISTS];
  int oid_ctx;
  int cid_ctx;
  OCIBind *olamt_bp;

  ub2 w_id_len[NDISTS];
  ub2 d_id_len[NDISTS];
  ub2 del_date_len[NDISTS];
  ub2 carrier_id_len[NDISTS];
  ub2 amt_len[NDISTS];
#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
  ub2 inum_len;
#endif

  ub2 del_o_id_rcode[NDISTS];
  ub2 cons_rcode[NDISTS];
  ub2 w_id_rcode[NDISTS];
  ub2 d_id_rcode[NDISTS];
  ub2 c_id_rcode[NDISTS];
  ub2 del_date_rcode[NDISTS];
  ub2 carrier_id_rcode[NDISTS];
  ub2 amt_rcode[NDISTS];
#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
  ub2 inum_rcode;
#endif

  int del_o_id[NDISTS];
  int del_d_id[NDISTS];
  int cons[NDISTS];
  int w_id[NDISTS];
  int d_id[NDISTS];
  int c_id[NDISTS];
  int carrier_id[NDISTS];
  int amt[NDISTS];
  ub4 del_o_id_rcnt;
  int retry;
  int retry_serial;
  int retry_snapshot;
  OCIRowid *no_rowid_ptr[NDISTS];
  OCIRowid *o_rowid_ptr[NDISTS];
  OCIDate del_date[NDISTS];
#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
  char inum[10];
#endif
  OCIStmt *curd0;
  OCIStmt *curd1;
  OCIStmt *curd2;
  OCIStmt *curd3;
  OCIStmt *curd4;
  OCIStmt *curd5;
  OCIStmt *curd6;
  OCIStmt *curdtest;

  OCIBind *w_id_bp;
  OCIBind *w_id_bp3;
  OCIBind *w_id_bp4;
  OCIBind *w_id_bp5;
  OCIBind *w_id_bp6;
  OCIBind *d_id_bp;
  OCIBind *d_id_bp3;
  OCIBind *d_id_bp4;
  OCIBind *d_id_bp6;
  OCIBind *o_id_bp;
  OCIBind *cr_date_bp;
  OCIBind *c_id_bp;
  OCIBind *c_id_bp3;
  OCIBind *no_rowid_bp;
  OCIBind *carrier_id_bp;
  OCIBind *o_rowid_bp;
  OCIBind *del_o_id_bp;
  OCIBind *del_o_id_bp3;
  OCIBind *amt_bp;
  OCIBind *bstr1_bp[10];
  OCIBind *bstr2_bp[10];
  OCIBind *retry_bp;
  OCIBind *retry_serial_bp;
  OCIBind *retry_snapshot_bp;
  OCIDefine *inum_dp;
  OCIDefine *d_id_dp;
  OCIDefine *del_o_id_dp;
  OCIDefine *no_rowid_dp;
  OCIDefine *c_id_dp;
  OCIDefine *o_rowid_dp;
  OCIDefine *cons_dp;
  OCIDefine *amt_dp;

  int norow;
};

typedef struct delctx delctx;
struct pldelctx {

  ub2 del_d_id_len[NDISTS];
  ub2 del_o_id_len[NDISTS];



  ub2 w_id_len;
  ub2 d_id_len[NDISTS];
  ub2 o_c_id_len[NDISTS];
  ub2 sums_len[NDISTS];
  ub2 carrier_id_len;
  ub2 ordcnt_len;
  ub2 del_date_len;
#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
  ub2 inum_len;
#endif

  int del_o_id[NDISTS];
  int del_d_id[NDISTS];
  int o_c_id[NDISTS];
  int sums[NDISTS];
  OCIDate del_date;
  int carrier_id;
  int ordcnt;

  ub4 del_o_id_rcnt;
  ub4 del_d_id_rcnt;
  ub4 o_c_id_rcnt;
  ub4 sums_rcnt;

  int retry;
  int retry_serial;
  int retry_snapshot;
#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
  char inum[10];
#endif
  OCIStmt *curp1;
  OCIStmt *curp2;
  OCIBind *w_id_bp;
  OCIBind *d_id_bp;
  OCIBind *o_id_bp;
  OCIBind *o_c_id_bp;
  OCIBind *ordcnt_bp;
  OCIBind *sums_bp;
  OCIBind *del_date_bp;
  OCIBind *carrier_id_bp;
  OCIBind *retry_bp;
  OCIBind *retry_serial_bp;
  OCIBind *retry_snapshot_bp;

  int norow;

};
typedef struct pldelctx pldelctx;

static pldelctx *pldctx;


static delctx *dctx;

#ifdef DMLRETDEL
struct amtctx {
 int ol_amt[NITEMS];
 sb2 ol_amt_ind[NITEMS];
 ub4 ol_amt_len[NITEMS];
```

```
  ub2 ol_amt_rcode[NITEMS];
  int ol_cnt;
};
typedef struct amtctx amtctx;
amtctx *actx;

#endif

/* Global variables for delivery transaction */

static int w_id;
static int o_carrier_id;

/*static struct msgh_req message;*/         /* Transaction message */
int my_qid, my_id;
char my_name[] = "Del";

static int tx_count = 0;                  /* Transaction counter */
static FILE *delfile;
OCIDate cr_date;
int del_o_id[10];
int retries;
int retries_serial;
int retries_recoverr;
int retries_snapshot;

struct msgh_req message;

static char outbuf[2048];       /* Buffer for results file */



#ifdef DMLRETDEL
sb4 no_data(dvoid *ctxp, OCIBind *bp, ub4 iter, ub4 index,
              dvoid **bufpp, ub4 *alenp, ub1 *piecep,
              dvoid **indpp)
{
  *bufpp = (dvoid*)0;
  *alenp =0;
  *indpp = (dvoid*)0;
  *piecep =OCI_ONE_PIECE;
  return (OCI_CONTINUE);
}


sb4 TPC_oid_data(dvoid *ctxp, OCIBind *bp, ub4 iter, ub4 index,
              dvoid **bufpp, ub4 **alenp, ub1 *piecep,
              dvoid **indpp, ub2 **rcodepp)
{
  *bufpp = &dctx->del_o_id[iter];
  *indpp= &dctx->del_o_id_ind[iter];
  dctx->del_o_id_len[iter]=sizeof(dctx->del_o_id[0]);
  *alenp= &dctx->del_o_id_len[iter];
  *rcodepp = &dctx->del_o_id_rcode[iter];
  *piecep =OCI_ONE_PIECE;
  return (OCI_CONTINUE);
}
sb4 cid_data(dvoid *ctxp, OCIBind *bp, ub4 iter, ub4 index,
              dvoid **bufpp, ub4 **alenp, ub1 *piecep,
              dvoid **indpp, ub2 **rcodepp)
{
  *bufpp = &dctx->c_id[iter];
  *indpp= &dctx->c_id_ind[iter];
  dctx->c_id_len[iter]=sizeof(dctx->c_id[0]);
  *alenp= &dctx->c_id_len[iter];
  *rcodepp = &dctx->c_id_rcode[iter];
  *piecep =OCI_ONE_PIECE;
  return (OCI_CONTINUE);
}


sb4 amt_data(dvoid *ctxp, OCIBind *bp, ub4 iter, ub4 index,
              dvoid **bufpp, ub4 **alenp, ub1 *piecep,
              dvoid **indpp, ub2 **rcodepp)
{
  amtctx *actx;
  actx =(amtctx*)ctxp;
  *bufpp = &actx->ol_amt[index];
  *indpp= &actx->ol_amt_ind[index];
  actx->ol_amt_len[index]=sizeof(actx->ol_amt[0]);
  *alenp= &actx->ol_amt_len[index];
  *rcodepp = &actx->ol_amt_rcode[index];
  *piecep =OCI_ONE_PIECE;
  return (OCI_CONTINUE);
}

#endif


int get_del_tx_cnt()
{
                return tx_count;
}

static int proc_no ;

int plsqlflag = 1;

int init_del_tx()
{
/****************************
 * BEGIN BLOCK OF COMMON CODE
 ***************************/

   text  stmbuf[SQL_BUF_SIZE];

  /* For all servers - common routine to open/init  session etc. */
  TPCinit();



   if (plsqlflag)
   {
     pldctx = (pldelctx *) malloc (sizeof(pldelctx));
     DISCARD memset(pldctx,(char)0,(ub4)sizeof(pldelctx));
     /* Initialize */
     DISCARD OCIHandleAlloc(tpcenv, (dvoid**)&pldctx->curp1,
OCI_HTYPE_STMT, 0,
                         (dvoid**)0);
     DISCARD sprintf ((char *) stmbuf, SQLTXT);
     DISCARD OCIStmtPrepare(pldctx->curp1, errhp, stmbuf,
                         (ub4) strlen((char *)stmbuf),
                    OCI_NTV_SYNTAX, OCI_DEFAULT);
     DISCARD OCIERROR(errhp,
       OCIStmtExecute(tpcsvc,pldctx-
>curp1,errhp,1,0,NULLP(OCISnapshot),
                       NULLP(OCISnapshot), OCI_DEFAULT));


     DISCARD OCIHandleAlloc(tpcenv,(dvoid**) &pldctx->curp2,
OCI_HTYPE_STMT,
                  0, (dvoid**)0);
     sqlfile("tkvcpdel.sql",stmbuf);
     DISCARD OCIStmtPrepare(pldctx->curp2, errhp, stmbuf,
                  (ub4)strlen((char *)stmbuf), OCI_NTV_SYNTAX,
OCI_DEFAULT);
     OCIBNDPL(pldctx->curp2, pldctx->w_id_bp , errhp,":w_id",
           ADR(w_id), SIZ(int), SQLT_INT,&pldctx->w_id_len);
     OCIBNDPL(pldctx->curp2, pldctx->ordcnt_bp , errhp,":ordcnt",
           ADR(pldctx->ordcnt), SIZ(int), SQLT_INT,&pldctx->ordcnt_len);
     OCIBNDPL(pldctx->curp2, pldctx->del_date_bp,errhp,":now",
           ADR(pldctx->del_date), SIZ(OCIDate), SQLT_ODT,&pldctx-
>del_date_len);
     OCIBNDPL(pldctx->curp2, pldctx->carrier_id_bp , errhp,
           ":carrier_id", ADR(o_carrier_id), SIZ(int),
           SQLT_INT, &pldctx->carrier_id_len);

     OCIBNDPLA(pldctx->curp2, pldctx->d_id_bp, errhp,":d_id",
            pldctx->del_d_id, SIZ(int),SQLT_INT, pldctx->del_d_id_len,
            NDISTS, &pldctx->del_d_id_rcnt);
     OCIBNDPLA(pldctx->curp2, pldctx->o_id_bp, errhp,":order_id",
            pldctx->del_o_id,SIZ(int),SQLT_INT, pldctx-
>del_o_id_len,NDISTS,
            &pldctx->del_o_id_rcnt);
     OCIBNDPLA(pldctx->curp2, pldctx->sums_bp, errhp,"sums",
            pldctx->sums,SIZ(int),SQLT_INT, pldctx->sums_len,NDISTS,
            &pldctx->sums_rcnt);
     OCIBNDPLA(pldctx->curp2, pldctx->o_c_id_bp, errhp,":o_c_id",
            pldctx->o_c_id,SIZ(int),SQLT_INT, pldctx->o_c_id_len,NDISTS,
            &pldctx->o_c_id_rcnt);
     OCIBND(pldctx->curp2, pldctx->retry_bp , errhp,":retry",
          ADR(pldctx->retry), SIZ(int),SQLT_INT);

   }
   else
   {

     dctx = (delctx *) malloc (sizeof(delctx));
     memset(dctx,(char)0,sizeof(delctx));
     dctx->norow = 0;
     actx = (amtctx *) malloc (sizeof(amtctx));
     memset(actx,(char)0,sizeof(amtctx));

#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
```

```
    OCIHandleAlloc(tpcenv, (dvoid **)(&dctx->curd0),
OCI_HTYPE_STMT, 0,
                  (dvoid**)0);
    sprintf ((char *) stmbuf, SQLTXT0);
    OCIStmtPrepare(dctx->curd0, errhp, stmbuf, strlen((char *)stmbuf),
                  OCI_NTV_SYNTAX, OCI_DEFAULT);

    OCIDFNRA(dctx->curd0, dctx->inum_dp,errhp,1,dctx->inum,SIZ(dctx-
>inum),
           SQLT_STR,&(dctx->inum_ind),&(dctx->inum_len),&(dctx-
>inum_rcode));
#endif

/* If PLSQLDEL and ISO? are both defined, then they both try to use
   curd0! This could cause a problem. Will try to fix later - VMM 12/30/97 */

    OCIHandleAlloc(tpcenv, (dvoid **)(&dctx->curd1),
OCI_HTYPE_STMT, 0,
                (dvoid**)0);
    DISCARD sprintf ((char *) stmbuf, "%s",    SQLTXT1);
    DISCARD OCIStmtPrepare(dctx->curd1, errhp, stmbuf,
                    strlen((char *)stmbuf),OCI_NTV_SYNTAX,
OCI_DEFAULT);

    OCIBND(dctx->curd1, dctx->w_id_bp,errhp,":w_id",dctx-
>w_id,SIZ(int),
        SQLT_INT);
    OCIBNDRA(dctx->curd1, dctx->d_id_bp,errhp,":d_id",dctx-
>d_id,SIZ(int),
        SQLT_INT,NULL,NULL,NULL);

    OCIBNDRAD(dctx->curd1, dctx->del_o_id_bp, errhp, ":o_id",
           SIZ(int),SQLT_INT,NULL,
           &dctx->oid_ctx,no_data,TPC_oid_data);

   /* open third cursor */

    DISCARD OCIHandleAlloc(tpcenv, (dvoid **)(&dctx->curd3),
OCI_HTYPE_STMT,
                          0, (dvoid**)0);
    DISCARD sprintf ((char *) stmbuf, SQLTXT3);
    DISCARD OCIStmtPrepare(dctx->curd3, errhp, stmbuf, strlen((char
*)stmbuf),
                                   OCI_NTV_SYNTAX, OCI_DEFAULT);


   /* bind variables */

    OCIBNDRA(dctx->curd3, dctx->carrier_id_bp,errhp,":carrier_id",
            dctx->carrier_id, SIZ(dctx->carrier_id[0]),SQLT_INT,
          dctx->carrier_id_ind, dctx->carrier_id_len,dctx->carrier_id_rcode);

    OCIBNDRA(dctx->curd3, dctx->w_id_bp3, errhp, ":w_id", dctx-
>w_id,SIZ(int),
            SQLT_INT, NULL, NULL, NULL);
    OCIBNDRA(dctx->curd3, dctx->d_id_bp3, errhp, ":d_id", dctx-
>d_id,SIZ(int),
            SQLT_INT,NULL, NULL, NULL);
    OCIBNDRA(dctx->curd3, dctx->del_o_id_bp3, errhp, ":o_id", dctx-
>del_o_id,
            SIZ(int), SQLT_INT,NULL,NULL,NULL);
    OCIBNDRAD(dctx->curd3, dctx->c_id_bp3, errhp, ":o_c_id", SIZ(int),
            SQLT_INT,NULL,&dctx->cid_ctx,no_data, cid_data);

   /* open fourth cursor */

    DISCARD OCIHandleAlloc(tpcenv, (dvoid **)(&dctx->curd4),
OCI_HTYPE_STMT, 0,
                 (dvoid**)0);
    DISCARD sprintf ((char *) stmbuf, SQLTXT4);
    DISCARD OCIStmtPrepare(dctx->curd4, errhp, stmbuf, strlen((char
*)stmbuf),
                                   OCI_NTV_SYNTAX, OCI_DEFAULT);

   /* bind variables */

    OCIBND(dctx->curd4, dctx->w_id_bp4,errhp,":w_id",dctx->w_id,
         SIZ(int), SQLT_INT);
    OCIBND(dctx->curd4, dctx->d_id_bp4,errhp,":d_id",dctx->d_id,
         SIZ(int), SQLT_INT);
    OCIBND(dctx->curd4, dctx->o_id_bp,errhp,":o_id",dctx->del_o_id,
         SIZ(int),SQLT_INT);
    OCIBND(dctx->curd4, dctx->cr_date_bp,errhp,":cr_date", dctx-
>del_date,
         SIZ(OCIDate), SQLT_ODT);
    OCIBNDRAD(dctx->curd4, dctx->olamt_bp, errhp, ":ol_amount",
          SIZ(int), SQLT_INT,NULL, actx,no_data,amt_data);



   /* open sixth cursor */

    DISCARD OCIHandleAlloc(tpcenv, (dvoid **)(&dctx->curd6),
OCI_HTYPE_STMT,
                       0, (dvoid**)0);
    DISCARD sprintf ((char *) stmbuf, SQLTXT6);
    DISCARD OCIStmtPrepare(dctx->curd6, errhp, stmbuf, strlen((char
*)stmbuf),
                                   OCI_NTV_SYNTAX, OCI_DEFAULT);

   /* bind variables */


    OCIBND(dctx->curd6,dctx->amt_bp,errhp,":amt",dctx->amt,SIZ(int),
        SQLT_INT);
    OCIBND(dctx->curd6,dctx->w_id_bp6,errhp,":w_id",dctx-
>w_id,SIZ(int),
         SQLT_INT);
    OCIBND(dctx->curd6,dctx->d_id_bp6,errhp,":d_id",dctx->d_id,SIZ(int),
         SQLT_INT);
    OCIBND(dctx->curd6,dctx->c_id_bp,errhp,":c_id",dctx->c_id,SIZ(int),
         SQLT_INT);
   }
/****************************
 * END BLOCK OF COMMON CODE
 ****************************/

  /*proc_stat_msg("init_del_tx()\n");
  proc_stat(); */

  return(0);
}


void shiftdata(int from)
{
  int i;
  for (i=from;i<NDISTS-1; i++)
  {
    dctx->del_o_id_ind[i] = dctx->del_o_id_ind[i+1];
    dctx->del_o_id[i] = dctx->del_o_id[i+1];
    dctx->w_id[i] = dctx->w_id[i+1];
    dctx->d_id[i] = dctx->d_id[i+1];
    dctx->carrier_id[i] = dctx->carrier_id[i+1];
  }
}

/* Structure used to queue delivery transaction */
struct req_struct {
  int w_id;
  int o_carrier_id;
  time_t qtime;           /* Time transaction was queued */
 } ;

int delivery_tx(TPSVCINFO *rqst)
{ /*dt */
  int i, j,v;
  int invalid;
  int tmp_id;
  int rpc, rcount, errcode, execstatus;
  int count ;
  time_t etime;
  struct timeval tv;


  /* float tmp_amt; changed form float to int */
  int tmp_amt;
  int del_o_id[10];
  ub4 attr_size;

  int          len;
  int          retries=0, err = 0;

  struct req_struct *delp;
      delp = (struct req_struct *)(rqst->data);

/****************************
 * BEGIN BLOCK OF COMMON CODE
 ****************************/

  /*int rpc, rcount, errcode, execstatus;*/
              MOVETO(w_id, delp);
              MOVETO(o_carrier_id, delp);
  /*
```

```
      vgetdate(cr_date); */

   OCIERROR(errhp,OCIDateSysDate(errhp,&cr_date));

   tx_count++;

   sprintf(outbuf, "Starting transaction %d queued at %ld\n",
                tx_count, delp->qtime);




#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
   int hasno;
   int reread;
   char sdate[30];

   OCIStmtExecute(tpcsvc,dctx->curd0,errhp,1,0,0,0,OCI_DEFAULT);
   sysdate (sdate);
   printf ("Delivery started at %s on node %s\n", sdate, dctx->inum);
#endif
   if (plsqlflag)
   {

     pldctx->w_id_len = sizeof (int);
     pldctx->carrier_id_len = sizeof (int);
     for (i = 0; i < NDISTS; i++)
     {
       pldctx->del_o_id_len[i] = sizeof(int);
       del_o_id[i] = 0;
     }
     pldctx->del_date_len = DEL_DATE_LEN;
     DISCARD memcpy(&pldctx->del_date,&cr_date,sizeof(OCIDate));

     pldctx->retry=0;
     pldctx->retry_serial=0;
     pldctx->retry_snapshot=0;

     DISCARD OCIERROR(errhp,
       OCIStmtExecute(tpcsvc,pldctx->curp2,errhp,1,0,NULLP(CONST
OCISnapshot),
                   NULLP(OCISnapshot),OCI_DEFAULT));
     for (i = 0; i < NDISTS; i++)
     {
       del_o_id[i] = 0;
     }
     for (i = 0; i < pldctx->del_o_id_rcnt; i++)
       del_o_id[pldctx->del_d_id[i] - 1] = pldctx->del_o_id[i];
   }
   else
   {

retry:

#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
     reread = 1;
#endif
#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
iso:
#endif

     invalid = 0;

   /* initialization for array operations */

     for (i = 0; i < NDISTS; i++)
     {/*F*/
       dctx->del_o_id_ind[i] = TRUE;
       dctx->d_id_ind[i] = TRUE;
       dctx->c_id_ind[i] = TRUE;
       dctx->del_date_ind[i] = TRUE;
       dctx->carrier_id_ind[i] = TRUE;
       dctx->amt_ind[i] = TRUE;

       dctx->del_o_id_len[i] = SIZ(dctx->del_o_id[0]);
       dctx->w_id_len[i] = SIZ(dctx->w_id[0]);
       dctx->d_id_len[i] = SIZ(dctx->d_id[0]);
       dctx->c_id_len[i] = SIZ(dctx->c_id[0]);
       dctx->del_date_len[i] = DEL_DATE_LEN;
       dctx->carrier_id_len[i] = SIZ(dctx->carrier_id[0]);
       dctx->amt_len[i] = SIZ(dctx->amt[0]);

       dctx->w_id[i] = w_id;
       dctx->d_id[i] = i+1;
       dctx->carrier_id[i] = o_carrier_id;
       memcpy(&dctx->del_date[i],&cr_date,sizeof(OCIDate));
     }

     memset(actx,(char)0,sizeof(amtctx));

   /* array select from new_order and orders tables */

     execstatus=OCIStmtExecute(tpcsvc,dctx->curd1,errhp,NDISTS,0,
             NULLP(CONST
OCISnapshot),NULLP(OCISnapshot),OCI_DEFAULT);
     if((execstatus != OCI_SUCCESS) && (execstatus != OCI_NO_DATA))
     {
       DISCARD OCITransRollback(tpcsvc,errhp,OCI_DEFAULT);
       errcode = OCIERROR(errhp,execstatus);
       if(errcode == NOT_SERIALIZABLE)
       {
         retries++;
              retries_serial++;
         goto retry;
       }
       else if (errcode == RECOVERR)
       {
         retries++;
              retries_recoverr++;
         goto retry;
       }
       else if (errcode == SNAPSHOT_TOO_OLD)
       {
         retries++;
              retries_snapshot++;
         goto retry;
       }
       else
       {
         return -1;
       }
     }
     /* mark districts with no new order */
     DISCARD OCIAttrGet(dctx-
>curd1,OCI_HTYPE_STMT,&rcount,NULLP(ub4),
             OCI_ATTR_ROW_COUNT,errhp);
     rpc = rcount;
     if (rcount != NDISTS )
     {
       int j = 0;
       for (i=0;i < NDISTS; i++)
       {
         if (dctx->del_o_id_ind[j] == 0) /* there is data here */
           j++;
         else
           shiftdata(j);
       }
     }

     execstatus=OCIStmtExecute(tpcsvc,dctx->curd3,errhp,rpc,0,
             NULLP(CONST
OCISnapshot),NULLP(OCISnapshot),OCI_DEFAULT);
     if(execstatus != OCI_SUCCESS)
     {
       DISCARD OCITransRollback(tpcsvc,errhp,OCI_DEFAULT);
       errcode = OCIERROR(errhp,execstatus);
       if(errcode == NOT_SERIALIZABLE)
       {
         retries++;
              retries_serial++;
         goto retry;
       }
       else if (errcode == RECOVERR)
       {
         retries++;
              retries_recoverr++;
         goto retry;
       }
       else if (errcode == SNAPSHOT_TOO_OLD)
       {
         retries++;
              retries_snapshot++;
         goto retry;
       }
       else
       {
         return -1;
       }
     }

     DISCARD OCIAttrGet(dctx-
>curd3,OCI_HTYPE_STMT,&rcount,NULLP(ub4),
            OCI_ATTR_ROW_COUNT,errhp);
```

```
    if (rcount != rpc)
    {
#ifdef TUX
       userlog ("Error in TPC-C server %d: %d rows selected, %d ords
updated\n",
              proc_no, rpc, rcount);
#else
       DISCARD fprintf (stderr,
              "Error in TPC-C server %d: %d rows selected, %d ords updated\n",
              proc_no, rpc, rcount);
#endif
       DISCARD OCITransRollback(tpcsvc,errhp,OCI_DEFAULT);
       return (-1);
    }

    /* array update of order_line table */
    execstatus=OCIStmtExecute(tpcsvc,dctx->curd4,errhp,rpc,0,
                NULLP(CONST
OCISnapshot),NULLP(OCISnapshot),OCI_DEFAULT);
    if(execstatus != OCI_SUCCESS)
    {
       DISCARD OCITransRollback(tpcsvc,errhp,OCI_DEFAULT);
       errcode = OCIERROR(errhp,execstatus);
       if(errcode == NOT_SERIALIZABLE)
       {
         retries++;
                retries_serial++;
         goto retry;
       }
       else if (errcode == RECOVERR)
       {
         retries++;
                retries_recoverr++;
         goto retry;
       }
       else if (errcode == SNAPSHOT_TOO_OLD)
       {
         retries++;
                retries_snapshot++;
         goto retry;
       }
       else
       {
         return -1;
       }
    }
    DISCARD OCIAttrGet(dctx-
>curd4,OCI_HTYPE_STMT,&rcount,NULLP(ub4),
             OCI_ATTR_ROW_COUNT,errhp);
/* transfer amounts  */
    for (i=0;i<rpc;i++)
    {
       dctx->amt[i]=0;
         if ( actx->ol_amt_rcode[i] == 0)
         {
           dctx->amt[i] = actx->ol_amt[i];
         }
```

```
    }
#if defined(ISO5) || defined(ISO6)
    printf ("d_id:amount\n");
    for (i = 0; i < rpc; i++)
      printf ("%d:%.2f ", dctx->d_id[i], (float)dctx->amt[i]/100);
    printf ("\n");
#endif

    /* array update of customer table */
#if defined(ISO5) || defined (ISO6)
    execstatus=OCIStmtExecute(tpcsvc,dctx->curd6,errhp,rpc,0,0,0,
                                                  OCI_DEFAULT);
#else
    execstatus=OCIStmtExecute(tpcsvc,dctx->curd6,errhp,rpc,0,
              NULLP(CONST OCISnapshot),NULLP(OCISnapshot),
              OCI_COMMIT_ON_SUCCESS | OCI_DEFAULT);
#endif

    if(execstatus != OCI_SUCCESS)
    {
      OCITransRollback(tpcsvc,errhp,OCI_DEFAULT);
      errcode = OCIERROR(errhp,execstatus);
      if(errcode == NOT_SERIALIZABLE)
      {
        retries++;
              retries_serial++;
        goto retry;
      }
      else if (errcode == RECOVERR)
      {
        retries++;
              retries_recoverr++;
        goto retry;
      }
      else if (errcode == SNAPSHOT_TOO_OLD)
      {
        retries++;
              retries_snapshot++;
        goto retry;
      }
      else
      {
        return -1;
      }
    }

    DISCARD OCIAttrGet(dctx-
>curd6,OCI_HTYPE_STMT,&rcount,NULLP(ub4),
                  OCI_ATTR_ROW_COUNT,errhp);

    if (rcount != rpc) {
#ifdef TUX
      userlog ("Error in TPC-C server %d: %d rows selected, %d cust
updated\n",
            proc_no, rpc, rcount);
#else
      DISCARD fprintf (stderr,
            "Error in TPC-C server %d: %d rows selected, %d cust updated\n",
```

```
             proc_no, rpc, rcount);
#endif
     DISCARD OCITransRollback(tpcsvc, errhp, OCI_DEFAULT);
     return (-1);
    }

  /* return o_id's in district id order */

  for (i = 0; i < NDISTS; i++)
    del_o_id[i] = 0;
  for (i = 0; i < rpc; i++)
    del_o_id[dctx->d_id[i] - 1] = dctx->del_o_id[i];

  }

  for (i = 0; i < 10; i++) {
                if (del_o_id[i] == 0) {
                        /* No order found for this district */
                                sprintf(outbuf+strlen(outbuf),
                                "Delivery for District %d skipped\n", i+1);
                }
                else {
                sprintf(outbuf+strlen(outbuf),
                  "Delivered order %d for district %d, warehouse %d, carrier
%d\n",
                                del_o_id[i], i+1, w_id, o_carrier_id);
                }
   }
   (void)gettimeofday(&tv, NULL); /* convert to msec */
   etime = (tv.tv_sec * 1000) + (tv.tv_usec / 1000);
   sprintf(outbuf+strlen(outbuf), "Transaction completed at %ld Retries %d
%d %d %d\n",
   etime,retries, retries_serial,retries_recoverr, retries_snapshot);
   fwrite(outbuf, strlen(outbuf), 1, delfile);
   fflush(delfile);

/***************************
 * END BLOCK OF COMMON CODE
 ***************************/
              return(0);
}


void cleanup(int code)
{
  if (dctx)
    free (dctx);

#if defined(ISO) || defined(ISO5) || defined(ISO6) || defined(ISO8)
  OCIHandleFree((dvoid *)dctx->curd0,OCI_HTYPE_STMT);
#endif
  OCIHandleFree((dvoid *)dctx->curd1,OCI_HTYPE_STMT);
  OCIHandleFree((dvoid *)dctx->curd2,OCI_HTYPE_STMT);
  OCIHandleFree((dvoid *)dctx->curd3,OCI_HTYPE_STMT);
  OCIHandleFree((dvoid *)dctx->curd4,OCI_HTYPE_STMT);
  OCIHandleFree((dvoid *)dctx->curd5,OCI_HTYPE_STMT);
  OCIHandleFree((dvoid *)dctx->curd6,OCI_HTYPE_STMT);
```

```
  /* log off */

  OCIHandleFree((dvoid *)tpcusr, OCI_HTYPE_SESSION);
  OCIHandleFree((dvoid *)tpcsvc, OCI_HTYPE_SVCCTX);
  OCIHandleFree((dvoid *)errhp, OCI_HTYPE_ERROR);
  OCIHandleFree((dvoid *)tpcsrv, OCI_HTYPE_SERVER);
  OCIHandleFree((dvoid *)tpcenv, OCI_HTYPE_ENV);
   exit(code);
}

/* Tuxedo */
int tpsvrinit(int argc, char **argv)
{
	char *p;
	char filename[200];
	int proc_no, count;
	struct utsname name;
	if ((p = getenv("CLNT_HOST")) == (char *)NULL) {
		userlog("CLNT_HOST environment variable not set - use same
name as for an rsh i.e. X64_0\n");
		exit(1);
	}

	proc_no = atoi(argv[optind]);   /* Needs argument which is the proc_no
*/

	/* Get hostname of our machine  and create results file */
	/* uname( &name); */
		/*	strcpy(filename, p); */

      /* sprintf(filename, "/tmp/%s.del%d", name.nodename, proc_no); */
	 sprintf(filename, "/tmp/%s.del%d", p, proc_no);

	delfile = fopen(filename, "w");
	if (delfile == NULL) {
		userlog("Cannot create file %s\n", filename);
	}
	return(init_del_tx());		/* Prepare transaction */
}

void tpsvrdone()
{
	fclose(delfile);	/* Close results file */
}

int DEL(TPSVCINFO *rqst)
{
	if (delivery_tx(rqst))
		tpreturn(TPFAIL, 0, rqst->data, sizeof(struct req_struct), 0);
		else
		tpreturn(TPSUCCESS, 0, rqst->data, sizeof(struct req_struct), 0);
}
```

tpcc_srv_init.c

```
/*
 * Copyright (c) 1994 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)tpcso_srv_stock.c	1.6		95/04/12	SMI"

/
*===========================================================
============+
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|		OPEN SYSTEMS PERFORMANCE GROUP		|
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 +===========================================================
=============+
 | FILENAME
 |    renamed to tpcc_srv_init.c
 | DESCRIPTION
 |    OCI for opening connect/session  in TPC-C benchmark.
 +===========================================================
=============*/

/* #include "ora_oci.h" */
#ifndef ORA_TPCC
# define ORA_TPCC
# include "tpcc.h"
#endif

#include <stdlib.h>
#include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/msg.h>
/* #include "./ora_err.h"  *
/* Tuxedo */
#include "atmi.h"
#include "userlog.h"

OCIEnv *tpcenv;
OCIServer *tpcsrv;
OCIError *errhp;
OCISvcCtx *tpcsvc;
OCISession *tpcusr;
OCIStmt *curi;

char *uid = "tpcc";
char *pwd = "tpcc";

#define SQLTXT "alter session set isolation_level = serializable"

/*
 * Initialize the environment, err-handle, attach, open session,
 *  alter session to serializable.  Common for all 5 TX.
 */

int status, execstatus, errcode;

int TPCinit()
{
  int i;
  text stmbuf[16*1024];

  /* common to all 5 */
   OCIInitialize(OCI_DEFAULT|OCI_OBJECT,(dvoid *)0,0,0,0);
   OCIEnvInit(&tpcenv, OCI_DEFAULT, 0, (dvoid **)0);
   OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&tpcsrv,
OCI_HTYPE_SERVER, 0 , (dvoid **)0);
   OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&errhp,
OCI_HTYPE_ERROR, 0 , (dvoid **)0);
   OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&tpcsvc,
OCI_HTYPE_SVCCTX, 0 , (dvoid **)0);
   OCIServerAttach(tpcsrv, errhp, (text *)0,0,OCI_DEFAULT);
   OCIAttrSet((dvoid *)tpcsvc, OCI_HTYPE_SVCCTX, (dvoid *)tpcsrv,
(ub4)0,OCI_ATTR_SERVER, errhp);
   OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&tpcusr,
OCI_HTYPE_SESSION, 0 , (dvoid **)0);
   OCIAttrSet((dvoid *)tpcusr, OCI_HTYPE_SESSION, (dvoid *)uid,
(ub4)strlen(uid),OCI_ATTR_USERNAME, errhp);
   OCIAttrSet((dvoid *)tpcusr, OCI_HTYPE_SESSION, (dvoid *)pwd,
(ub4)strlen(pwd),
		OCI_ATTR_PASSWORD, errhp);
fprintf(stderr, "%d] Now call SessionBegin UID=%s PWD=%s\n", getpid(),
uid, pwd);

   OCIERROR(errhp, OCISessionBegin(tpcsvc, errhp, tpcusr,
OCI_CRED_RDBMS, OCI_DEFAULT));

   OCIAttrSet(tpcsvc, OCI_HTYPE_SVCCTX, tpcusr, 0,
OCI_ATTR_SESSION, errhp);

   /* run all transaction in serializable mode */

   OCIHandleAlloc(tpcenv, (dvoid **)&curi, OCI_HTYPE_STMT, 0,
(dvoid**)0);
   sprintf ((char *) stmbuf, SQLTXT);
   OCIStmtPrepare(curi, errhp, stmbuf, strlen((char *)stmbuf),
OCI_NTV_SYNTAX, OCI_DEFAULT);
   OCIERROR(errhp,OCIStmtExecute(tpcsvc, curi,
errhp,1,0,0,0,OCI_DEFAULT));
   OCIHandleFree(curi, OCI_HTYPE_STMT);
   /* end common ---- */

   return(0);
}
```

tpcc_srv_util.c

```
/*
 * Copyright (c) 1995 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)tpcso_srv_util.c		1.17		97/01/02	SMI"

/
*===========================================================
============+
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```

```
|                        All Rights Reserved                        |
 +=====================================================
=============*/
/* Common utility functions used by all tpcso_srv* programs */

#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/file.h>

#include "ora_oci.h"
#include "ora_err.h"

FILE  *vopen(fnam,mode)
char  *fnam;
char  *mode;
{
FILE *fd;

#ifdef  DEBUG
  fprintf(stderr, "tkvuopen() fnam: %s,   mode: %s\n", fnam, mode);
#endif

    fd = fopen((char *)fnam,(char *)mode);
    if (!fd){
        fprintf(stderr," fopen on %s failed %d\n",fnam,fd);
        exit(-1);
    }
    return(fd);
}

/*
int sqlfile(fnam,linebuf)
char   *fnam;
text   *linebuf;
*/
int sqlfile (char  *fnam, text *linebuf)
{
FILE *fd;
int nulpt = 0;

#ifdef  DEBUG
  fprintf(stderr, "sqlfile() fnam: %s,  linebuf: %#x\n", fnam, linebuf);
#endif

    fd = vopen(fnam,"r");
    while (fgets((char *)linebuf+nulpt, SQL_BUF_SIZE,fd))
    {
        nulpt = strlen((char *)linebuf);
    }
    return(nulpt);
}


void vgetdate (unsigned char *oradt)
{
 struct tm *loctime;
 time_t  int_time;

 struct ORADATE {
 unsigned char           century;
 unsigned char           year;
 unsigned char           month;
 unsigned char           day;
 unsigned char           hour;
 unsigned char           minute;
 unsigned char           second;
 } Date;
int century;
int cnvrtOK;

/* assume convert is successful */
cnvrtOK = 1;

/* get the current date and time as an integer */
time( &int_time);

/* Convert the current date and time into local time */
loctime = localtime( &int_time);

century = (1900+loctime->tm_year) / 100;

Date.century = (unsigned char)(century + 100);
if (Date.century < 119 || Date.century > 120) cnvrtOK = 0;
Date.year  = (unsigned char)(loctime->tm_year+100);
if (Date.year < 100 || Date.year > 199) cnvrtOK = 0;
Date.month = (unsigned char)(loctime->tm_mon + 1);
if (Date.month < 1 || Date.month > 12) cnvrtOK = 0;
Date.day   = (unsigned char)loctime->tm_mday;
if (Date.day < 1 || Date.day > 31) cnvrtOK = 0;
Date.hour  = (unsigned char)(loctime->tm_hour + 1);
if (Date.hour < 1 || Date.hour > 24) cnvrtOK = 0;
Date.minute= (unsigned char)(loctime->tm_min + 1);
if (Date.minute < 1 || Date.minute > 60) cnvrtOK = 0;
Date.second= (unsigned char)(loctime->tm_sec + 1);
if (Date.second < 1 || Date.second > 60) cnvrtOK = 0;


if (cnvrtOK)
  memcpy(oradt,&Date,7);
  else
    *oradt = '\0';

 return;

}


void cvtdmy (unsigned char *oradt, char *outdate)
{

       struct ORADATE {
               unsigned char   century;
               unsigned char   year;
               unsigned char   month;
               unsigned char   day;
               unsigned char   hour;
               unsigned char   minute;
               unsigned char   second;
       } Date;


       int day,month,year;

       memcpy(&Date,oradt,7);

       year = (Date.century-100)*100 + Date.year-100;
       month = Date.month;
       day = Date.day;
       sprintf(outdate,"%02d-%02d-%4d",day,month,year);

       return;
}

void cvtdmyhms (unsigned char *oradt, char *outdate)
{

       struct ORADATE {
               unsigned char   century;
               unsigned char   year;
               unsigned char   month;
               unsigned char   day;
               unsigned char   hour;
               unsigned char   minute;
               unsigned char   second;
       } Date;


       int day,month,year;
       int hour,min,sec;

       memcpy(&Date,oradt,7);

       year = (Date.century-100)*100 + Date.year-100;
       month = Date.month;
       day = Date.day;
       hour = Date.hour - 1;
       min = Date.minute - 1;
       sec = Date.second - 1;

       sprintf(outdate,"%02d-%02d-%4d %02d:%02d:%02d",
                       day,month,year,hour,min,sec);

       return;
}
```

ora_oci.h

```
#pragma ident "@(#)oci.h          1.1          95/09/14    SMI"

/
*=====================================================
============+
```

```
|       Copyright (c) 1994  Oracle Corp, Redwood Shores, CA       |
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|                      All Rights Reserved                        |
 +=====================================================
=============+
 | FILENAME
 |    tpccpl.h
 | DESCRIPTION
 |    Header file for TPC-C transactions in PL/SQL.
 +=====================================================
=============*/

#ifndef TPCCPL_H
#define TPCCPL_H

#include <stdio.h>
#include <ctype.h>
#include <string.h>

#include <oratypes.h>
#include <oci.h>
/****
#if __STDC__
#include <ociapr.h>
#else
#include <ocikpr.h>
#endif
*****/

typedef struct cda_def csrdef;
typedef struct cda_def ldadef;


#ifndef DISCARD
# define DISCARD (void)
#endif

#ifndef sword
# define sword int
#endif

#define VER7            2

#define NA              -1      /* ANSI SQL NULL */
#define NLT             1       /* length for string null terminator */
#define DEADLOCK        60      /* ORA-00060: deadlock */
#define NO_DATA_FOUND   1403    /* ORA-01403: no data found */
#define NOT_SERIALIZABLE  8177  /* ORA-08177: transaction not
serializable */
#define      SNAPSHOT_TOO_OLD 1555

#ifndef NULLP
# define NULLP (void *)NULL
#endif /* NULLP */

#define ADR(object) ((ub1 *)&(object))
#define SIZ(object) ((sword)sizeof(object))
typedef char date[24+NLT];
typedef char varchar2;

#define OCIERROR(errp,function)\
       ocierror(__FILE__,__LINE__,(errp),(function));

#define OCIBND(stmp, bndp, errp, sqlvar, progv, progvl, ftype)\
      ocierror(__FILE__,__LINE__,(errp), \
          OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__, (errp), \
          OCIBindByName((stmp), &(bndp), (errp), \
                                                    (text *)(sqlvar),
strlen((sqlvar)),\
                                                    (progv), (progvl),
(ftype),0,0,0,0,0,OCI_DEFAULT));

#define
OCIBNDRAD(stmp,bndp,errp,sqlvar,progvl,ftype,indp,ctxp,cbf_nodata,cbf_
data) \
      ocierror(__FILE__,__LINE__,(errp), \
          OCIBindByName((stmp),&(bndp),(errp),(text *)(sqlvar), \
                    strlen((sqlvar)),0,(progvl),(ftype), \
                    indp,0,0,0,0,OCI_DATA_AT_EXEC)); \
          ocierror("yufei",__LINE__,(errp), \
          OCIBindDynamic((bndp),(errp),(ctxp),(cbf_nodata),(ctxp),
(cbf_data)));


#define
OCIBNDRA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
      ocierror(__FILE__,__LINE__,(errp), \
          OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__,(errp), \
          OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
                                                    (progv),(progvl),(ftype),
(indp),(alen),(arcode),0,0,OCI_DEFAULT));
/*      ocierror(__FILE__,__LINE__,(errp), \
          OCIBindArrayOfStruct((bndp),(errp),(progvl),sizeof((indp)[0]),\
                                                 sizeof((alen)[0]),sizeof((arcode)[0]))); */

#define
OCIBNDR(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
      ocierror(__FILE__,__LINE__,(errp), \
        OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__,(errp), \
        OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
                                                    (progv),(progvl),(ftype),
(indp),(alen),(arcode),0,0,OCI_DEFAULT));

#define
OCIBNDRAA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode,ms
,cu) \
      ocierror(__FILE__,__LINE__, (errp), \
          OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__,(errp),\
        OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
      (progv),(progvl),(ftype),(indp),(alen),(arcode),(ms),
(cu),OCI_DEFAULT));
/*      ocierror(__FILE__,__LINE__,(errp),
            OCIBindArrayOfStruct((bndp),(errp),(progvl),sizeof((indp)[0]),\
                                             sizeof((alen)[0]),sizeof((arcode)[0]))); */

#define OCIDEFINE(stmp,dfnp,errp,pos,progv,progvl,ftype)\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),(ftype),\
                              0,0,0,OCI_DEFAULT)

#define OCIDEF(stmp,dfnp,errp,pos,progv,progvl,ftype) \
      OCIHandleAlloc((stmp),(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                              (dvoid**)0);\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),\
                    (ftype),NULL,NULL,NULL,OCI_DEFAULT); \


#define OCIDFNRA(stmp,dfnp,errp,pos,progv,progvl,ftype,indp,alen,arcode)
\
      OCIHandleAlloc(tpcenv,(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                                                    (dvoid**)0);\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),\
                                                    (progvl),(ftype),(indp),
(alen),\
                                                    (arcode),OCI_DEFAULT);\

#define OBNDRV(lda,cursor,sqlvar,progv,progvl,ftype)\
   if (obndrv((cursor),(text*)(sqlvar),NA,(ub1*)(progv),(progvl),(ftype),NA,\
      (sb2 *)0, (text *)0, NA, NA))\
      {errrpt(lda,cursor,sqlvar);return(-1);}\
   else\
      DISCARD 0

#define OBNDRA(lda,cursor,sqlvar,progv,progvl,ftype,indp,alen,arcode)\
   if (obndra((cursor),(text*)(sqlvar),NA,(ub1*)(progv),(progvl),(ftype),NA,\
      (indp),(alen),(arcode),(ub4)0,(ub4*)0,(text*)0,NA,NA))\
      {errrpt(lda,cursor,sqlvar);return(-1);}\
   else\
      DISCARD 0

#define
OBNDRAA(lda,cursor,sqlvar,progv,progvl,ftype,indp,alen,arcode,ms,cs)\
   if (obndra((cursor),(text*)(sqlvar),NA,(ub1*)(progv),(progvl),(ftype),NA,\
      (indp),(alen),(arcode),(ub4)(ms),(ub4*)(cs),(text*)0,NA,NA))\
      {errrpt(lda,cursor,sqlvar);return(-1);}\
   else\
      DISCARD 0

#define
ODEFIN(lda,cursor,pos,buf,bufl,ftype,scale,indp,fmt,fmtl,fmtt,rlen,rcode)\
   if (odefin((cursor),(pos),(ub1*)(buf),(bufl),(ftype),(scale),(indp),\
      (text*)(fmt),(fmtl),(fmtt),(rlen),(rcode)))\
      {errrpt(lda,cursor,(text *)ftype);return(-1);}\
```

```
   else\
     DISCARD 0

#define OEXFET(lda,cursor,nrows,cancel,exact)\
   if (oexfet((cursor),(nrows),(cancel),(exact)))\
      {if ((cursor)->rc == 1403) DISCARD 0; \
       else if (errrpt(lda,cursor,(text *)"OEXFET")==RECOVERR) \
         {orol(lda);return(RECOVERR);} \
       else{orol(lda);return(-1);}}\
   else\
     DISCARD 0

#define OOPEN(lda,cursor)\
   if (oopen((cursor),(lda),(text*)0,NA,NA,(text*)0,NA))\
      {errrpt(lda,cursor,(text *)"OOPEN");return(-1);}\
   else\
     DISCARD 0

#define OPARSE(lda,cursor,sqlstm,sqll,defflg,lngflg)\
   if (oparse((cursor),(sqlstm),(sb4)(sqll),(defflg),(ub4)(lngflg)))\
      {errrpt(lda,cursor,sqlstm);return(-1);}\
   else\
     DISCARD 0

#define OFEN(lda,cursor,nrows)\
   if (ofen((cursor),(nrows)))\
      {if (errrpt(lda,cursor,(text *)"OFEN")==RECOVERR) \
         {orol(lda);return(RECOVERR);} \
       else{orol(lda);return(-1);}}\
   else\
     DISCARD 0

#define OEXEC(lda,cursor)\
   if (oexec((cursor)))\
      {if (errrpt(lda,cursor,(text *)"OEXEC")==RECOVERR) \
         {orol(lda);return(RECOVERR);} \
       else{orol(lda);return(-1);}}\
   else\
     DISCARD 0


#define OCOM(lda,cursor)\
   if (ocom((lda))) \
      {errrpt(lda,cursor,(text *)"OCOM");orol(lda);return(-1);}\
   else\
     DISCARD 0


#define OEXN(lda,cursor,iters,rowoff)\
   if (oexn((cursor),(iters),(rowoff))) \
      {if (errrpt(lda,cursor,(text *)"OEXN")==RECOVERR) \
         {orol(lda);return(RECOVERR);} \
       else{orol(lda);return(-1);}}\
   else\
     DISCARD 0

#endif
```

```
/* additions done for 814 -shishir */
#define OCI_ATTR_SRVRCTXT               OCI_ATTR_SERVER
#define OCI_ATTR_USERCTXT               OCI_ATTR_SESSION
#define OCI_ATTR_ROWCNT   OCI_ATTR_ROW_COUNT
#define OCI_HTYPE_ERR                   OCI_HTYPE_ERROR
#define OCI_HTYPE_STM                   OCI_HTYPE_STMT
```

tpcc.h

```
/
*========================================================
============+
 |        Copyright (c) 1995  Oracle Corp, Redwood Shores, CA     |
 |                  OPEN SYSTEMS PERFORMANCE GROUP                |
 |                      All Rights Reserved                     |
 +=======================================================
=============+
 | FILENAME
 |    tpcc.h
 | DESCRIPTION
 |    Include file for TPC-C benchmark programs.
 +=======================================================
=============*/

#ifndef TPCC_H
#define TPCC_H

#ifndef FALSE
# define FALSE 0
#endif

#ifndef TRUE
# define TRUE 1
#endif

#include <stdio.h>
#include <stdlib.h>
#include <ctype.h>
#include <string.h>

#ifndef boolean
#define boolean int
#endif

#include <oratypes.h>
#include <oci.h>
#include <ocidfn.h>
/*
#ifdef __STDC__
#include "ociapr.h"
#else
#include "ocikpr.h"
#endif
*/

typedef struct cda_def csrdef;
typedef struct cda_def ldadef;
```

```
/* TPC-C transaction functions */
#ifndef TUXEDO
extern int TPCinit ();
extern int TPCnew ();
extern int TPCpay ();
extern int TPCord ();
extern int TPCdel ();
extern int TPCsto ();
extern void TPCexit ();
extern int TPCdumpinit ();
extern void TPCdumpnew ();
extern void TPCdumppay ();
extern void TPCdumpord ();
extern void TPCdumpdel ();
extern void TPCdumpsto ();
extern void TPCdumpexit ();
/* extern void userlog(char* fmtp, ...);  */
#endif




/* Error codes */

#define RECOVERR -10
#define IRRECERR -20
#define NOERR    111
#define DEL_ERROR -666
#define DEL_DATE_LEN 77
#define NDISTS 10
#define NITEMS 15
#define SQL_BUF_SIZE 8192

#define FULLDATE "dd-mon-yy.hh24:mi:ss"
#define SHORTDATE "dd-mm-yyyy"



#define DELRT 80.0

#ifndef TUX
extern int tkvcninit ();
extern int tkvcpinit ();
extern int tkvcoinit ();
extern int tkvcdinit ();
extern int tkvcsinit ();

extern int tkvcn ();
extern int tkvcp ();
extern int tkvco ();
extern int tkvcd ();
extern int tkvcs ();

extern void tkvcndone ();
extern void tkvcpdone ();
extern void tkvcodone ();
extern void tkvcddone ();
extern void tkvcsdone ();
```

```
extern int tkvcss (); /* for alter session to get memory size and trace */
extern boolean multitranx;
extern int ord_init;
#endif

extern void errrpt ();
extern int ocierror(char *fname, int lineno,OCIError *errhp, sword status);
extern int sqlfile(char *fname, text *linebuf);

extern FILE *lfp;
extern FILE *fopen ();
extern int proc_no;
extern int doid[];

extern int execstatus;
extern int errcode;

#ifndef TUX
extern OCIEnv *tpcenv;
extern OCIServer *tpcsrv;
extern OCIError *errhp;
extern OCISvcCtx *tpcsvc;
extern OCISession *tpcusr;
extern OCIStmt *curntest;
#endif
/* The bind and define handles for each transaction are
   included in their respective header files. */

extern OCIEnv *tpcenv;
extern OCIServer *tpcsrv;
extern OCIError *errhp;
extern OCISvcCtx *tpcsvc;
extern OCISession *tpcusr;
extern OCIStmt *curi;

extern char *uid;
extern char *pwd;

/* for stock-level transaction */

extern int w_id;
extern int d_id;
extern int c_id;
extern int threshold;
extern int low_stock;

/* for delivery transaction */

extern int del_o_id[10];
extern int carrier_id;
extern double qtime;
extern int retries;
extern int retries_serial;
extern int retries_recoverr;
extern int retries_snapshot;
/* for order-status transaction */

extern int bylastname;
extern char c_last[17];
extern char c_first[17];
extern char c_middle[3];
extern double c_balance;
extern int o_id;
extern text o_entry_d[20];
extern int o_carrier_id;
extern int o_ol_cnt;
extern int ol_supply_w_id[15];
extern int ol_i_id[15];
extern int ol_quantity[15];
extern int ol_amount[15];
ub4    ol_del_len[15];
extern text ol_delivery_d[15][11];
/* xnie - begin */
extern OCIRowid *o_rowid;
/* xnie - end */

/* for payment transaction */

extern int c_w_id;
extern int c_d_id;
extern int h_amount;
extern char w_street_1[21];
extern char w_street_2[21];
extern char w_city[21];
extern char w_state[3];
extern char w_zip[10];
extern char d_street_1[21];
extern char d_street_2[21];
extern char d_city[21];
extern char d_state[3];
extern char d_zip[10];
extern char c_street_1[21];
extern char c_street_2[21];
extern char c_city[21];
extern char c_state[3];
extern char c_zip[10];
extern char c_phone[17];
extern text c_since_d[11];
extern char c_credit[3];
extern int c_credit_lim;
extern float c_discount;
extern char c_data[201];
extern text h_date[20];

/* for new order transaction */

#ifndef TUX
extern int nol_i_id[15];
extern int nol_supply_w_id[15];
extern int nol_quantity[15];
extern int nol_quanti10[15];
extern int nol_quanti91[15];
extern int nol_ytdqty[15];
extern int nol_amount[15];
extern int o_all_local;
extern float w_tax;
extern float d_tax;
extern float total_amount;
extern char i_name[15][25];
extern int i_name_strlen[15];
extern ub2 i_name_strlen_len[15];
extern ub2 i_name_strlen_rcode[15];
extern ub4 i_name_strlen_csize;
extern int s_quantity[15];
#if 0
extern char brand_gen[15];
#endif
extern ub2 brand_gen_len[15];
extern ub2 brand_gen_rcode[15];
extern ub4 brand_gen_csize;
extern int i_price[15];
extern char brand_generic[15][1];
extern int status;
extern int tracelevel;

/* Miscellaneous */
extern OCIDate cr_date;
extern OCIDate c_since;
extern OCIDate o_entry_d_base;
extern OCIDate ol_d_base[15];

#endif

#ifndef DISCARD
# define DISCARD (void)
#endif

#ifndef sword
# define sword int
#endif

#define VER7           2

#define NA             -1      /* ANSI SQL NULL */
#define NLT             1      /* length for string null terminator */
#define DEADLOCK        60     /* ORA-00060: deadlock */
#define NO_DATA_FOUND   1403   /* ORA-01403: no data found */
#define NOT_SERIALIZABLE  8177  /* ORA-08177: transaction not
serializable */
#define SNAPSHOT_TOO_OLD  1555  /* ORA-01555: snapshot too old */

#ifndef NULLP
# define NULLP(x)  (x  *)NULL
#endif /* NULLP */

#define ADR(object) ((ub1 *)&(object))
#define SIZ(object) ((sword)sizeof(object))

typedef char date[24+NLT];
typedef char varchar2;
```

```
#define min(x,y)  (((x) < (y)) ? (x) : (y))

#define OCIERROR(errp,function)\
       ocierror(__FILE__,__LINE__,(errp),(function));

#define OCIBND(stmp, bndp, errp, sqlvar, progv, progvl, ftype)\
      ocierror(__FILE__,__LINE__,(errp), \
           OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__, (errp), \
           OCIBindByName((stmp), &(bndp), (errp), \
                                 (text *)(sqlvar), strlen((sqlvar)),\
                                 (progv), (progvl),
(ftype),0,0,0,0,0,OCI_DEFAULT));



/* bind arrays for sql */
#define
OCIBNDRA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
       OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
        OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
                                                   (progv),(progvl),(ftype),
(indp),(alen),(arcode),0,0,OCI_DEFAULT));


/* use with callback data */
#define OCIBNDRAD(stmp,bndp,errp,sqlvar,progvl,ftype,indp,ctxp,\
              cbf_nodata,cbf_data) \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
       OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
          OCIBindByName((stmp),&(bndp),(errp),(text *)(sqlvar), \
                    strlen((sqlvar)),0,(progvl),(ftype), \
                    indp,0,0,0,0,OCI_DATA_AT_EXEC)); \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
        OCIBindDynamic((bndp),(errp),(ctxp),(cbf_nodata),(ctxp),
(cbf_data)));



/* bind in/out for plsql without indicator and rcode */
#define OCIBNDPL(stmp,bndp,errp,sqlvar,progv,progvl,ftype,alen) \
   DISCARD ocierror(__FILE__,__LINE__,(errp), \
     OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
   DISCARD ocierror(__FILE__,__LINE__,(errp), \
     OCIBindByName((stmp),&(bndp),(errp),(CONST text *)(sqlvar), \
       (sb4)strlen((CONST char *)(sqlvar)), (dvoid*)(progv),(progvl),(ftype),\
           NULLP(dvoid),(alen), NULLP(ub2),
0,NULLP(ub4),OCI_DEFAULT));

/* bind  in values for plsql with indicator and rcode */
#define
OCIBNDR(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
       OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
       OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
                                   (progv),(progvl),(ftype),(indp),(alen),(arcode),0,0, \
                  OCI_DEFAULT));

/* bind in/out for plsql arrays witout indicator and rcode */
#define OCIBNDPLA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,alen,ms,cu) \
      DISCARD ocierror(__FILE__,__LINE__, (errp), \
       OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0));\
      DISCARD ocierror(__FILE__,__LINE__,(errp),\
       OCIBindByName((stmp),&(bndp),(errp),(CONST text *)(sqlvar), \
            (sb4)strlen((CONST char *) (sqlvar)),(void *)(progv), \
            (progvl),(ftype),NULL,(alen),NULL,(ms),(cu),OCI_DEFAULT));

/* bind in/out values for plsql with indicator and rcode */
#define
OCIBNDRAA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode,\
               ms,cu) \
      ocierror(__FILE__,__LINE__, (errp), \
       OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0));\
      ocierror(__FILE__,__LINE__,(errp),\
       OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
      (progv),(progvl),(ftype),(indp),(alen),(arcode),(ms),
(cu),OCI_DEFAULT));

#define OCIDEFINE(stmp,dfnp,errp,pos,progv,progvl,ftype)\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),(ftype),\
                                 0,0,0,OCI_DEFAULT);



#define OCIDEF(stmp,dfnp,errp,pos,progv,progvl,ftype) \
      OCIHandleAlloc((stmp),(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                                                      (dvoid**)0);\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),\
                       (ftype),NULL,NULL,NULL,OCI_DEFAULT); \


#define OCIDFNRA(stmp,dfnp,errp,pos,progv,progvl,ftype,indp,alen,arcode)
\
      OCIHandleAlloc((stmp),(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                                                      (dvoid**)0);\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),\
                                                      (progvl),(ftype),(indp),
(alen),\
                                                      (arcode),OCI_DEFAULT);

#define
OCIDFNDYN(stmp,dfnp,errp,pos,progv,progvl,ftype,indp,ctxp,cbf_data) \
      ocierror(__FILE__,__LINE__,(errp), \
      OCIHandleAlloc((stmp),(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                                                           (dvoid**)0));\
      ocierror(__FILE__,__LINE__,(errp), \
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv), (progvl),(ftype),\
                         (indp),NULL,NULL, OCI_DYNAMIC_FETCH));\
      ocierror(__FILE__,__LINE__,(errp), \
      OCIDefineDynamic((dfnp),(errp),(ctxp),(cbf_data)));



/* New order */

struct newinstruct {
   int w_id;
   int d_id;
   int c_id;
   int ol_i_id[15];
   int ol_supply_w_id[15];
   int ol_quantity[15];
};

struct newoutstruct {
   int terror;
   int o_id;
   int o_ol_cnt;
   char c_last[17];
   char c_credit[3];
   float c_discount;
   float w_tax;
   float d_tax;
   char o_entry_d[20];
   float total_amount;
   char i_name[15][25];
   int s_quantity[15];
   char brand_generic[15];
   float i_price[15];
   float ol_amount[15];
   char status[26];
   int retry;
};

struct newstruct {
   struct newinstruct newin;
   struct newoutstruct newout;
};


/* Payment */

struct payinstruct {
   int w_id;
   int d_id;
   int c_w_id;
   int c_d_id;
   int c_id;
   int bylastname;
   int h_amount;
```

```
  char c_last[17];
};

struct payoutstruct {
  int terror;
  char w_street_1[21];
  char w_street_2[21];
  char w_city[21];
  char w_state[3];
  char w_zip[10];
  char d_street_1[21];
  char d_street_2[21];
  char d_city[21];
  char d_state[3];
  char d_zip[10];
  int  c_id;
  char c_first[17];
  char c_middle[3];
  char c_last[17];
  char c_street_1[21];
  char c_street_2[21];
  char c_city[21];
  char c_state[3];
  char c_zip[10];
  char c_phone[17];
  char c_since[11];
  char c_credit[3];
  double c_credit_lim;
  float  c_discount;
  double c_balance;
  char c_data[201];
  char h_date[20];
  int retry;
};

struct paystruct {
  struct payinstruct payin;
  struct payoutstruct payout;
};


/* Order status */

struct ordinstruct {
  int w_id;
  int d_id;
  int c_id;
  int bylastname;
  char c_last[17];
};

struct ordoutstruct {
  int terror;
  int c_id;
  char c_last[17];
  char c_first[17];
  char c_middle[3];
  double c_balance;
  int o_id;
  char o_entry_d[20];
  int o_carrier_id;
  int o_ol_cnt;
  int ol_supply_w_id[15];
  int ol_i_id[15];
  int ol_quantity[15];
  float ol_amount[15];
  char ol_delivery_d[15][11];
  int retry;
};

struct ordstruct {
  struct ordinstruct ordin;
  struct ordoutstruct ordout;
};


/* Delivery */

struct delinstruct {
  int w_id;
  int o_carrier_id;
  double qtime;
  int in_timing_int;
  int plsqlflag;
};

struct deloutstruct {
  int terror;
  int retry;
};

struct delstruct {
  struct delinstruct delin;
  struct deloutstruct delout;
};


/* Stock level */

struct stoinstruct {
  int w_id;
  int d_id;
  int threshold;
};

struct stooutstruct {
  int terror;
  int low_stock;
  int retry;
};

struct stostruct {
  struct stoinstruct stoin;
  struct stooutstruct stoout;
};
/* Structure of a message request passed on the msg-queue */
struct msgh_req {
        long    type;                   /* Type of message */
        struct {
                int             len;                    /* Length of message */
                int             client_id;              /* Id of client sending this msg */
                int             result_qid;             /* Result of xact goes on this queue */
                union {
                        struct newstruct msgh_newo;
                        struct paystruct msgh_paym;
                        struct ordstruct msgh_ords;
                        struct delstruct msgh_del;
                        struct stostruct msgh_stock;
                } msgh_un;
        } msgh_msg;
};
extern struct msgh_req message;
#define header          message.msgh_msg
#define neworder        message.msgh_msg.msgh_un.msgh_newo
#define payment         message.msgh_msg.msgh_un.msgh_paym
#define ordstat         message.msgh_msg.msgh_un.msgh_ords
#define delivery        message.msgh_msg.msgh_un.msgh_del
#define stocklevel      message.msgh_msg.msgh_un.msgh_stock

extern char blank_mesg[];

/* Message keys for servers */
#define NEWO_MSGKEY             10000
#define PAYM_MSGKEY             20000
#define ORDS_MSGKEY             30000
#define STOCK_MSGKEY    40000
#define DEL_MSGKEY              50000

#define MAX_USERS               200             /* Max. number of drivers */


#endif
```

tpccflags.h

```
#define PLSQLNO
#define DMLRETDEL
```

UNI_SVR

ora_errrpt.c

```
/*
 * Copyright (c) 1995 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)ora_errrpt.c 1.1             95/09/14    SMI"

/*
 * these functions actually belong in ~dbbench/generic/c/msgh_log.c.  We put
them
 * here because they have database specific statements.
 */
```

```
#include "ora_err.h"
#include "ora_oci.h"

errrpt(lda, cur, sqlvar)
ldadef *lda;
csrdef *cur;
text        *sqlvar;
{
            text msg[2048];
/*          if (cur->rc) { */
                    oerhms(lda, (sb2) cur->rc, msg, 2048);
                    userlog("%s sql_variable %s\n", msg, sqlvar);

           if (cur->rc == DEADLOCK || (cur->rc ==
SNAPSHOT_TOO_OLD))
                return(RECOVERR);
           else
                return(IRRECERR);

/*          } */
}

/* vmm313 void ocierror(fname, lineno, errhp, status)  */
int ocierror(fname, lineno, errhp, status)
char *fname;
int lineno;
OCIError *errhp;
sword status;
{
  text errbuf[512];
  ub4 buflen;
  sb4 errcode;
  sb4 lstat ;
  ub4 recno=2 ;

  switch (status) {
  case OCI_SUCCESS:
    break;
  case OCI_SUCCESS_WITH_INFO:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - OCI_SUCCESS_WITH_INFO\n");
  break;
  case OCI_NEED_DATA:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - OCI_NEED_DATA\n");
     return (IRRECERR);
  case OCI_NO_DATA:
    /*
      (void) userlog("Module %s Line %d\n", fname, lineno);
      (void) userlog("Error - OCI_NO_DATA\n");
    */
    return IRRECERR;        /* for 8.1.4 */
  break;
  case OCI_ERROR:
    lstat = OCIErrorGet (errhp, (ub4) 1,
                 (text *) NULL, &errcode, errbuf,
                    (ub4) sizeof(errbuf), OCI_HTYPE_ERR);
            if (errcode == NOT_SERIALIZABLE) return (errcode);
    while (lstat != OCI_NO_DATA)
    {
              (void) userlog("Module %s Line %d\n", fname, lineno);
              (void) userlog("Error - %s\n", errbuf);
              lstat = OCIErrorGet (errhp, recno++, (text *) NULL, &errcode,
errbuf,
                   (ub4) sizeof(errbuf), OCI_HTYPE_ERROR);
    }
    return (errcode);
  break;
  case OCI_INVALID_HANDLE:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - OCI_INVALID_HANDLE\n");
  break;
  case OCI_STILL_EXECUTING:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error – OCI_STILL_EXECUTE\n");
   return (IRRECERR);
  case OCI_CONTINUE:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - OCI_CONTINUE\n");
  return (IRRECERR);
  default:
    (void) userlog("Module %s Line %d\n", fname, lineno);
    (void) userlog("Error - \n");
    return (IRRECERR);
  }
  return RECOVERR;
}
```

tpcc_srv_init.c

```
/*
 * Copyright (c) 1994 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)tpcso_srv_stock.c       1.6         95/04/12    SMI"

/
*=======================================================
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 +======================================================
============+
 | FILENAME
 |    renamed to tpcc_srv_init.c
 | DESCRIPTION
 |    OCI for opening connect/session  in TPC-C benchmark.
 +======================================================
=============*/

/* #include "ora_oci.h" */
#ifndef ORA_TPCC
# define ORA_TPCC
# include "tpcc.h"
#endif
#include <stdlib.h>
#include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/msg.h>
/* #include "./ora_err.h"  *
/* Tuxedo */
#include "atmi.h"
#include "userlog.h"

OCIEnv *tpcenv;
OCIServer *tpcsrv;
OCIError *errhp;
OCISvcCtx *tpcsvc;
OCISession *tpcusr;
OCIStmt *curi;

char *uid = "tpcc";
char *pwd = "tpcc";

#define SQLTXT "alter session set isolation_level = serializable"

/*
 * Initialize the environment, err-handle, attach, open session,
 *  alter session to serializable.  Common for all 5 TX.
 */

int status, execstatus, errcode;

/* external routines */
int init_stock_tx();
int init_ords_tx();
int init_paym_tx();
int init_newo_tx();

int stocklevel_tx( TPSVCINFO *rqst );
int ordstat_tx(TPSVCINFO *rqst);
int payment_tx(TPSVCINFO *rqst);
int neworder_tx(TPSVCINFO *rqst);

int TPCinit()
{


  int i;
  text stmbuf[16*1024];

  /* common to all 5 */
   OCIInitialize(OCI_DEFAULT|OCI_OBJECT,(dvoid *)0,0,0,0);
   OCIEnvInit(&tpcenv, OCI_DEFAULT, 0, (dvoid **)0);
   OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&tpcsrv,
OCI_HTYPE_SERVER, 0 , (dvoid **)0);
   OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&errhp,
OCI_HTYPE_ERROR, 0 , (dvoid **)0);
   OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&tpcsvc,
OCI_HTYPE_SVCCTX, 0 , (dvoid **)0);
```

```
  OCIServerAttach(tpcsrv, errhp, (text *)0,0,OCI_DEFAULT);
  OCIAttrSet((dvoid *)tpcsvc, OCI_HTYPE_SVCCTX, (dvoid *)tpcsrv,
(ub4)0,OCI_ATTR_SERVER, errhp);
  OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&tpcusr,
OCI_HTYPE_SESSION, 0 , (dvoid **)0);
  OCIAttrSet((dvoid *)tpcusr, OCI_HTYPE_SESSION, (dvoid *)uid,
(ub4)strlen(uid),OCI_ATTR_USERNAME, errhp);
  OCIAttrSet((dvoid *)tpcusr, OCI_HTYPE_SESSION, (dvoid *)pwd,
(ub4)strlen(pwd),
                 OCI_ATTR_PASSWORD, errhp);
fprintf(stderr, "%d] Now call SessionBegin UID=%s PWD=%s\n", getpid(),
uid, pwd);

  OCIERROR(errhp, OCISessionBegin(tpcsvc, errhp, tpcusr,
OCI_CRED_RDBMS, OCI_DEFAULT));

  OCIAttrSet(tpcsvc, OCI_HTYPE_SVCCTX, tpcusr, 0,
OCI_ATTR_SESSION, errhp);

  /* run all transaction in serializable mode */

  OCIHandleAlloc(tpcenv, (dvoid **)&curi, OCI_HTYPE_STMT, 0,
(dvoid**)0);
  sprintf ((char *) stmbuf, SQLTXT);
  OCIStmtPrepare(curi, errhp, stmbuf, strlen((char *)stmbuf),
OCI_NTV_SYNTAX, OCI_DEFAULT);
  OCIERROR(errhp,OCIStmtExecute(tpcsvc, curi,
errhp,1,0,0,0,OCI_DEFAULT));
  OCIHandleFree(curi, OCI_HTYPE_STMT);
  /* end common ---- */

  return(0);
}


/* Start of Tuxedo code */
int tpsvrinit(int argc, char **argv)
{
int retcode;

 /* For all servers - common routine to open/init  session etc. */
 TPCinit();
 /* Successful return is 0 */
 if (retcode=init_newo_tx())
   return (retcode);
 if (retcode=init_paym_tx())
   return (retcode);
 if (retcode=init_ords_tx())
   return (retcode);
 if (retcode=init_stock_tx())
   return (retcode);

 return(0);
}
```

tpcc_srv_newo.c

```
/*
 * Copyright (c) 1995 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)tpcso_srv_newo.c        1.14        97/01/02    SMI"

/
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 +=======================================================
============+
 | FILENAME
 |    plnew.c
 | DESCRIPTION
 |    OCI version (using PL/SQL stored procedure) of
 |    NEW ORDER transaction in TPC-C benchmark.
 | *** As perf Mar 4, 2009 pre-audit: changes for interactive compliance
 +=======================================================
============*/
#ifndef ORA_TPCC
# define ORA_TPCC
# include "tpcc.h"
#endif



#include <signal.h>
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/msg.h>

/* TAKE THESE OUT IF NOT DEBUGGING */
#include "ora_oci.h"
#include "./ora_err.h"

/* Tuxedo includes */
#include "atmi.h"
#include "userlog.h"

static int    tx_count = 0;

void vgetdate (unsigned char *oradt);
int sqlfile (char  *fnam, text *linebuf);
void cvtdmyhms (unsigned char *oradt, char *outdate);

#define MOVETO(element, struct_name) element = struct_name->element
#define MOVEBACK(element, struct_name) struct_name->element =
element
#define MOVECBACK(element, cnt, struct_name) strncpy(struct_name-
>element, element, cnt)


/* Lists of items on an order */
/* These structures should match the struct definitions for no_struct
 * defined in tpcc_client.h exactly.
 * Any change to those, should be reflected here
 */

struct items_inf {
               int ol_supply_w_id;
               int ol_i_id;
               char i_name[25];
               int ol_quantity;
               int s_quantity;
               char brand[2];
               double i_price;
               double ol_amount;
} ;

/* List of fields in neworder */

struct newo_inf {
               int w_id;
               int d_id;
               int c_id;
               int o_id;
               int o_ol_cnt;
               double c_discount;
               double w_tax;
               double d_tax;
               char o_entry_d[20];
               char c_credit[3];
               char c_last[17];
               struct items_inf n_items[15];
               char status_mesg[25];
               double total;
} ;

int indx[15];
void swap(struct newo_inf *str, int i, int j);
void q_sort(int *arr, struct newo_inf *str, int left, int right);

/*struct msgh_req message; */
char blank_mesg[25] = "                        ";

int my_qid, my_id;
char my_name[] = "Newo";


/***************************
 * BEGIN BLOCK OF COMMON CODE
 ***************************/

               /* struct newo_inf */
/* for new order transaction */
static int w_id;
static int d_id;
static int c_id;
static int o_id;
static int o_ol_cnt;
static float c_discount;
static text o_entry_d[20];
```

```
/*              char o_entry_d[20]; */
static char c_credit[3];
static char c_last[17];
static char status_mesg[25];

static double total;

static int nol_i_id[15];
static int nol_supply_w_id[15];
static int nol_quantity[15];
static int nol_quanti10[15];
static int nol_quanti91[15];
static int nol_ytdqty[15];
static int nol_amount[15];
static int o_all_local;
static float w_tax;
static float d_tax;
static float total_amount;
static char i_name[15][25];
static int s_quantity[15];
/* char brand_gen[15]; */
static int i_price[15];
static char brand_gen[15];
static char brand_generic[15][1];
static int tracelevel = 0;

static OCIDate cr_date;
static OCIDate c_since;
static OCIDate o_entry_d_base;
static OCIDate ol_d_base[15];
static dvoid *xmem;
static int retries;


#define SQLTXT2 "BEGIN inittpcc.init_no(:idx1arr); END;"

#define NITEMS 15
#define ROWIDLEN 20
#define OCIROWLEN 20

struct newctx {
  ub2 nol_i_id_len[NITEMS];
  ub2 nol_supply_w_id_len[NITEMS];
  ub2 nol_quantity_len[NITEMS];
  ub2 nol_amount_len[NITEMS];
  ub2 s_quantity_len[NITEMS];
  ub2 i_name_len[NITEMS];
  ub2 i_price_len[NITEMS];
  ub2 s_dist_info_len[NITEMS];
  ub2 ol_o_id_len[NITEMS];
  ub2 ol_number_len[NITEMS];
  ub2 s_remote_len[NITEMS];
  ub2 s_quant_len[NITEMS];
  ub2 ol_dist_info_len[NITEMS];
  ub2 s_bg_len[NITEMS];

  int ol_o_id[NITEMS];
  int ol_number[NITEMS];

  int s_remote[NITEMS];
  char s_dist_info[NITEMS][25];
  OCIStmt *curn1;
  OCIBind *ol_i_id_bp;
  OCIBind *ol_supply_w_id_bp;
  OCIBind *i_price_bp;
  OCIBind *i_name_bp;
  OCIBind *s_bg_bp;
  ub4 nol_i_count;
  ub4 nol_s_count;
  ub4 nol_q_count;
  ub4 nol_item_count;
  ub4 nol_name_count;
  ub4 nol_qty_count;
  ub4 nol_bg_count;
  ub4 nol_am_count;
  ub4 s_remote_count;
  OCIStmt *curn2;
  OCIBind *ol_quantity_bp;
  OCIBind *s_remote_bp;
  OCIBind *s_quantity_bp;
  OCIBind *w_id_bp;
  OCIBind *d_id_bp;
  OCIBind *c_id_bp;
  OCIBind *o_all_local_bp;
  OCIBind *o_all_cnt_bp;
  OCIBind *w_tax_bp;
  OCIBind *d_tax_bp;
  OCIBind *o_id_bp;
  OCIBind *c_discount_bp;
  OCIBind *c_credit_bp;
  OCIBind *c_last_bp;
  OCIBind *retries_bp;
  OCIBind *cr_date_bp;
  OCIBind *ol_o_id_bp;
  OCIBind *ol_amount_bp;

  sb2 w_id_len;
  ub2 d_id_len;
  ub2 c_id_len;
  ub2 o_all_local_len;
  ub2 o_ol_cnt_len;
  ub2 w_tax_len;
  ub2 d_tax_len;
  ub2 o_id_len;
  ub2 c_discount_len;
  ub2 c_credit_len;
  ub2 c_last_len;
  ub2 retries_len;
  ub2 cr_date_len;
};

typedef struct newctx newctx;

static newctx *nctx;

/*
 * Initialize the neworder transaction
 */

int
init_newo_tx()
{

  int  execstatus, errcode;
  char filename[200];
  int proc_no;
  int i;
  text stmbuf[16*1024];
  nctx = (newctx *) malloc (sizeof(newctx));
  DISCARD memset(nctx,(char)0,sizeof(newctx));
  nctx->w_id_len = sizeof(w_id);
  nctx->d_id_len = sizeof(d_id);
  nctx->c_id_len = sizeof(c_id);
  nctx->o_all_local_len = sizeof(o_all_local);
  nctx->o_ol_cnt_len = sizeof(o_ol_cnt);
  nctx->w_tax_len = 0;
  nctx->d_tax_len = 0;
  nctx->o_id_len = sizeof(o_id);
  nctx->c_discount_len = 0;
  nctx->c_credit_len = 0;
  nctx->c_last_len = 0;
  nctx->retries_len = sizeof(retries);
  nctx->cr_date_len = sizeof(cr_date);

  /* open first cursor */
  DISCARD OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&nctx-
>curn1),
          OCI_HTYPE_STMT, 0, (dvoid**)0));
  sqlfile("tkvcpnew.sql",stmbuf);
  DISCARD OCIERROR(errhp,OCIStmtPrepare(nctx->curn1, errhp, stmbuf,
          strlen((char *)stmbuf), OCI_NTV_SYNTAX, OCI_DEFAULT));

  /* bind variables */

  OCIBNDPL(nctx->curn1, nctx->w_id_bp, errhp,
":w_id",ADR(w_id),SIZ(w_id),
        SQLT_INT, &nctx->w_id_len);
  OCIBNDPL(nctx->curn1, nctx->d_id_bp, errhp,
":d_id",ADR(d_id),SIZ(d_id),
        SQLT_INT, &nctx->d_id_len);
  OCIBNDPL(nctx->curn1, nctx->c_id_bp, errhp,
":c_id",ADR(c_id),SIZ(c_id),
        SQLT_INT, &nctx->c_id_len);
  OCIBNDPL(nctx->curn1, nctx->o_all_local_bp, errhp, ":o_all_local",
        ADR(o_all_local), SIZ(o_all_local),SQLT_INT, &nctx-
>o_all_local_len);
  OCIBNDPL(nctx->curn1, nctx->o_all_cnt_bp, errhp,
":o_ol_cnt",ADR(o_ol_cnt),
        SIZ(o_ol_cnt),SQLT_INT, &nctx->o_ol_cnt_len);
  OCIBNDPL(nctx->curn1, nctx->w_tax_bp, errhp,
":w_tax",ADR(w_tax),SIZ(w_tax),
        SQLT_FLT, &nctx->w_tax_len);
  OCIBNDPL(nctx->curn1, nctx->d_tax_bp, errhp,
":d_tax",ADR(d_tax),SIZ(d_tax),
```

```
        SQLT_FLT, &nctx->d_tax_len);
  OCIBNDPL(nctx->curn1, nctx->o_id_bp, errhp,
":o_id",ADR(o_id),SIZ(o_id),
        SQLT_INT, &nctx->o_id_len);
  OCIBNDPL(nctx->curn1, nctx->c_discount_bp, errhp, ":c_discount",
        ADR(c_discount), SIZ(c_discount),SQLT_FLT, &nctx-
>c_discount_len);
  OCIBNDPL(nctx->curn1, nctx->c_credit_bp, errhp, ":c_credit",c_credit,
        SIZ(c_credit),SQLT_CHR, &nctx->c_credit_len);
  OCIBNDPL(nctx->curn1, nctx->c_last_bp, errhp,
":c_last",c_last,SIZ(c_last),
        SQLT_STR, &nctx->c_last_len);
  OCIBNDPL(nctx->curn1, nctx->retries_bp, errhp, ":retry",ADR(retries),
        SIZ(retries),SQLT_INT, &nctx->retries_len);
  OCIBNDPL(nctx->curn1, nctx->cr_date_bp, errhp, ":cr_date",&cr_date,
        SIZ(OCIDate), SQLT_ODT, &nctx->cr_date_len);

  OCIBNDPLA(nctx->curn1, nctx->ol_i_id_bp,errhp,":ol_i_id",nol_i_id,
         SIZ(int), SQLT_INT, nctx->nol_i_id_len,NITEMS,&nctx-
>nol_i_count);
  OCIBNDPLA(nctx->curn1, nctx->ol_supply_w_id_bp, errhp,
":ol_supply_w_id",
         nol_supply_w_id,SIZ(int),SQLT_INT, nctx->nol_supply_w_id_len,
         NITEMS, &nctx->nol_s_count);
  OCIBNDPLA(nctx->curn1, nctx->ol_quantity_bp,errhp,":ol_quantity",
         nol_quantity, SIZ(int),SQLT_INT,nctx->nol_quantity_len,
         NITEMS,&nctx->nol_q_count);
  OCIBNDPLA(nctx->curn1, nctx-
>i_price_bp,errhp,":i_price",i_price,SIZ(int),
         SQLT_INT, nctx->i_price_len, NITEMS, &nctx->nol_item_count);
  OCIBNDPLA(nctx->curn1, nctx->i_name_bp,errhp,":i_name",i_name,
         SIZ(i_name[0]),SQLT_STR, nctx->i_name_len,NITEMS,
         &nctx->nol_name_count);
  OCIBNDPLA(nctx->curn1, nctx-
>s_quantity_bp,errhp,":s_quantity",s_quantity,
         SIZ(int), SQLT_INT,nctx->s_quant_len,NITEMS,&nctx-
>nol_qty_count);
  OCIBNDPLA(nctx->curn1, nctx-
>s_bg_bp,errhp,":brand_generic",brand_generic,
         SIZ(char), SQLT_CHR,nctx->s_bg_len,NITEMS,&nctx-
>nol_bg_count);
  OCIBNDPLA(nctx->curn1, nctx-
>ol_amount_bp,errhp,":ol_amount",nol_amount,
         SIZ(int),SQLT_INT, nctx->nol_amount_len,NITEMS,&nctx-
>nol_am_count);
  OCIBNDPLA(nctx->curn1, nctx->s_remote_bp,errhp,":s_remote",nctx-
>s_remote,
         SIZ(int),SQLT_INT, nctx->s_remote_len,NITEMS,&nctx-
>s_remote_count);

  /* open second cursor */
  DISCARD OCIERROR(errhp,OCIHandleAlloc(tpcenv, (dvoid **)(&nctx-
>curn2),
              OCI_HTYPE_STMT, 0, (dvoid**)0));
  DISCARD sprintf ((char *) stmbuf, SQLTXT2);
  DISCARD OCIERROR(errhp,OCIStmtPrepare(nctx->curn2, errhp, stmbuf,
              strlen((char *)stmbuf), OCI_NTV_SYNTAX, OCI_DEFAULT));

  /* execute second cursor to init newinit package */
  {
   int idx1arr[NITEMS];
   OCIBind *idx1arr_bp;
   ub2 idx1arr_len[NITEMS];
   ub2 idx1arr_rcode[NITEMS];
   sb2 idx1arr_ind[NITEMS];
   ub4 idx1arr_count;
   ub2 idx;

   for (idx = 0; idx < NITEMS; idx++) {
    idx1arr[idx] = idx + 1;
    idx1arr_ind[idx] = TRUE;
    idx1arr_len[idx] = sizeof(int);
   }
   idx1arr_count = NITEMS;
              o_ol_cnt = NITEMS;


   /* Bind array */
   OCIBNDPLA(nctx->curn2, idx1arr_bp,errhp,":idx1arr",idx1arr,
          SIZ(int), SQLT_INT, idx1arr_len, NITEMS,&idx1arr_count);

    execstatus = OCIStmtExecute(tpcsvc,nctx->curn2,errhp,1,0,
              NULLP(CONST
OCISnapshot),NULLP(OCISnapshot),OCI_DEFAULT);
    if(execstatus != OCI_SUCCESS) {
     OCITransRollback(tpcsvc,errhp,OCI_DEFAULT);
     errcode = OCIERROR(errhp,execstatus);
              userlog("%d] newo_tx ERROR %s:%d - execstatus=%d, errcode=
%d\n",  getpid(), __FILE__, __LINE__, execstatus, errcode);
     return -1;
    }
  }
  return(0);
}

/***************************
 * END BLOCK OF COMMON CODE
 ***************************/



int get_newo_tx_cnt()
{
      return tx_count;
}


/*
 * This function executes the neworder transaction
 */


#if ACID
#include <sys/types.h>
#include <time.h>
time_t curtime, *timep = &curtime;
#endif

int neworder_tx(TPSVCINFO *rqst)
{

  int i;
  int  status, execstatus, errcode;
  int rcount;
  ub4  datelen;
  struct newo_inf *neworder_p;

#if ACID
              int reread;
              char sdate[30];
              time(timep);
              userlog("ACID NEWORDER started at %s\n", ctime(timep));
#endif

   neworder_p = (struct newo_inf *)(rqst->data);

   /* initialize the bind variables */
   MOVETO(w_id, neworder_p);
   MOVETO(d_id, neworder_p);
   MOVETO(c_id , neworder_p);
   MOVETO(o_ol_cnt, neworder_p);

   for (i = 0; i < 15; i++) {
    nol_i_id[i] = neworder_p->n_items[i].ol_i_id;
    nol_supply_w_id[i] = neworder_p->n_items[i].ol_supply_w_id;
    nol_quantity[i] =  neworder_p->n_items[i].ol_quantity;
   }

  retries = 0;

              for (i = 0; i < NITEMS; i++) indx[i] = i;
              q_sort(nol_i_id, neworder_p, 0, o_ol_cnt-1);

              tx_count++;

              strcpy(neworder_p->status_mesg, blank_mesg);
              /*              vgetdate((unsigned char *)cr_date);  */
    OCIERROR(errhp,OCIDateSysDate(errhp,&cr_date));
   datelen = sizeof(o_entry_d);
   OCIERROR(errhp,
      OCIDateToText(errhp,&cr_date,(text*)FULLDATE,SIZ(FULLDATE),
(text*)0,0,
                 &datelen,o_entry_d));
retry:



  status = 0;                    /* number of invalid items */

  /* get number of order lines, and check if all are local */

  o_ol_cnt = NITEMS;
  o_all_local = 1;
```

```
  for (i = 0; i < NITEMS; i++) {
    if (nol_i_id[i] == 0) {
      o_ol_cnt = i;
      break;
    }
    if (nol_supply_w_id[i] != w_id) {
      nctx->s_remote[i] = 1;
      o_all_local = 0;
    }
    else
      nctx->s_remote[i] = 0;
  }

  nctx->w_id_len = sizeof(w_id);
  nctx->d_id_len = sizeof(d_id);
  nctx->c_id_len = sizeof(c_id);
  nctx->o_all_local_len = sizeof(o_all_local);
  nctx->o_ol_cnt_len = sizeof(o_ol_cnt);
  nctx->w_tax_len = 0;
  nctx->d_tax_len = 0;
  nctx->o_id_len = sizeof(o_id);
  nctx->c_discount_len = 0;
  nctx->c_credit_len = 0;
  nctx->c_last_len = 0;
  nctx->retries_len = sizeof(retries);
  nctx->cr_date_len = sizeof(cr_date);
  /* this is the row count */
  rcount = o_ol_cnt;
  nctx->nol_i_count = o_ol_cnt;
  nctx->nol_q_count = o_ol_cnt;
  nctx->nol_s_count = o_ol_cnt;
  nctx->s_remote_count = o_ol_cnt;

  nctx->nol_qty_count  = 0;
  nctx->nol_bg_count = 0;
  nctx->nol_item_count = 0;
  nctx->nol_name_count = 0;
  nctx->nol_am_count   = 0;

  /* initialization for array operations */
  for (i = 0; i < o_ol_cnt; i++) {
    nctx->ol_number[i] = i + 1;
    nctx->nol_i_id_len[i] = sizeof(int);
    nctx->nol_supply_w_id_len[i] = sizeof(int);
    nctx->nol_quantity_len[i] = sizeof(int);
    nctx->nol_amount_len[i] = sizeof(int);
    nctx->ol_o_id_len[i] = sizeof(int);
    nctx->ol_number_len[i] = sizeof(int);
    nctx->ol_dist_info_len[i] = nctx->s_dist_info_len[i];
    nctx->s_remote_len[i] = sizeof(int);
    nctx->s_quant_len[i] = sizeof(int);
    nctx->i_name_len[i]=0;
    nctx->s_bg_len[i] = 0;
  }
  for (i = o_ol_cnt; i < NITEMS; i++) {

    nctx->nol_i_id_len[i] = 0;
    nctx->nol_supply_w_id_len[i] = 0;
    nctx->nol_quantity_len[i] = 0;
    nctx->nol_amount_len[i] = 0;
    nctx->ol_o_id_len[i] = 0;
    nctx->ol_number_len[i] = 0;
    nctx->ol_dist_info_len[i] = 0;
    nctx->s_remote_len[i] = 0;
    nctx->s_quant_len[i] = 0;
    nctx->i_name_len[i]=0;
    nctx->s_bg_len[i] = 0;
  }


  execstatus = OCIStmtExecute(tpcsvc,nctx->curn1,errhp,1,0,0,0,
                                                OCI_DEFAULT |
OCI_COMMIT_ON_SUCCESS);


  if(execstatus != OCI_SUCCESS) {

    OCITransRollback(tpcsvc,errhp,OCI_DEFAULT);
    errcode = OCIERROR(errhp,execstatus);

    if(errcode == NOT_SERIALIZABLE) {
              retries++;
       userlog("%d] newo_tx ERROR - NOT SERIALIZE doing retry\n",
getpid());
              goto retry;
    } else if (errcode == RECOVERR) {
     userlog("%d] newo_tx ERROR - RECOVERR doing retry\n",  getpid());
              retries++;
              goto retry;
    } else if (errcode == SNAPSHOT_TOO_OLD) {
       userlog("%d] newo_tx ERROR - SNAPSHOP_TOO_OLD doing
retry\n",  getpid());
              retries++;
              goto retry;
    } else {
       userlog("%d] newo_tx ERROR %s:%d - execstatus=%d, errcode=
%d\n",  getpid(), __FILE__, __LINE__, execstatus, errcode);
       sprintf(neworder_p->status_mesg, "Unknown Error");
              return -1;
    }
  }

  /* did the txn succeed ? */

  if (rcount != o_ol_cnt) {
       MOVECBACK(c_credit, 2, neworder_p);
       MOVECBACK(c_last, 16, neworder_p);
       MOVEBACK(o_id , neworder_p);
//       This is an expected case.  This is the neworder rollback transaction
//       userlog("%d] newo_tx ERROR - rcount %d != o_ol_cnt %d\n",
getpid(), rcount, o_ol_cnt);
       sprintf(neworder_p->status_mesg, "Item number is not valid");
       return -1;
  }

  total = 0.0;
  for (i = 0; i < o_ol_cnt; i++) {
              strcpy(neworder_p->n_items[i].i_name, i_name[i]);
              neworder_p->n_items[i].s_quantity = s_quantity[i];
              brand_gen[i] = brand_generic[i][0];
              neworder_p->n_items[i].brand[0] = brand_gen[i];
              neworder_p->n_items[i].brand[1] = '\0';
              neworder_p->n_items[i].i_price = ((double)i_price[i]) / 100;
              neworder_p->n_items[i].ol_amount = (double)(nol_amount[i])/
100;
              total = total + nol_amount[i];
  }
  total *= ((double)(10000  - c_discount)/10000) *
                  (1.0 + ((double)(d_tax)/10000) + ((double)(w_tax)/10000));
  total = total/100;

  /* fill in date for o_entry_d from time in beginning of txn
  cvtdmyhms((unsigned char *)cr_date, o_entry_d);
   */


  MOVEBACK(o_id , neworder_p);
  neworder_p->c_discount = ((double)c_discount) / 100;
  neworder_p->w_tax = ((double)w_tax) / 100;
  neworder_p->d_tax = ((double)d_tax) / 100;
  strncpy (neworder_p->o_entry_d, (char*)o_entry_d, 20);
  /*   MOVECBACK(o_entry_d, 20, neworder_p); */
  MOVECBACK(c_credit, 2, neworder_p);
  MOVECBACK(c_last, 16, neworder_p);
  MOVEBACK(total, neworder_p);

  q_sort(indx, neworder_p, 0,o_ol_cnt-1);


/***************************
 * END BLOCK OF COMMON CODE
 ***************************/

#if ACID
       time(timep);
       userlog("ACID NEWORDER w_id=%d, d_id=%d, c_id=%d, o_id=%d,
total=%f\n",
              w_id, d_id, c_id, o_id, total);
       userlog("ACID NEWORDER completed at %s\n", ctime(timep));
#endif
              return(0);
}


/* the arrays are initialized based on a successful select from */
/* stock/item. We need to shift the values in the orderline array */
/* one position up to compensate when we have an invalid item */

void
cleanup_newo(code)
int code;
{
              int i;
```

```
  if (nctx)
     free (nctx);

  OCIHandleFree((dvoid *)nctx->curn1,OCI_HTYPE_STMT);
  OCIHandleFree((dvoid *)nctx->curn2,OCI_HTYPE_STMT);
        exit(code);
}


void q_sort(int *arr,struct newo_inf *str,int left, int right)
{
  int i;

  if(left >= right)
    return;
  for(i=left+1;i<=right;i++)
    if(arr[i] < arr[left])
      swap(str,left,i);
  q_sort(arr,str,left+1,right);
}

void swap(struct newo_inf *str, int i, int j)
{
  int temp;
  double dtemp;
  char tmpstr[25];
  char tmpch[2];

  temp = indx[i];
  indx[i] = indx[j];
  indx[j] = temp;

  temp = nol_i_id[i];
  nol_i_id[i] = nol_i_id[j];
  nol_i_id[j] = temp;
 temp = nol_supply_w_id[i];
  nol_supply_w_id[i] = nol_supply_w_id[j];
  nol_supply_w_id[j] = temp;

  temp = nol_quantity[i];
  nol_quantity[i] = nol_quantity[j];
  nol_quantity[j] = temp;

  strncpy(tmpstr,str->n_items[i].i_name, 25);
  strncpy(str->n_items[i].i_name,str->n_items[j].i_name, 25);
  strncpy(str->n_items[j].i_name,tmpstr, 25);

  temp = str->n_items[i].s_quantity;
  str->n_items[i].s_quantity = str->n_items[j].s_quantity;
  str->n_items[j].s_quantity = temp;

/*
  tmpch = str->n_items[i].brand;
  str->n_items[i].brand= str->n_items[j].brand;
  str->n_items[j].brand= tmpch;
*/
  strncpy( tmpch ,str->n_items[i].brand, 2);
  strncpy(str->n_items[i].brand ,str->n_items[j].brand, 2);
  strncpy(str->n_items[j].brand ,tmpch, 2);

  dtemp = str->n_items[i].i_price;
  str->n_items[i].i_price = str->n_items[j].i_price;
  str->n_items[j].i_price = dtemp;

  dtemp = str->n_items[i].ol_amount;
  str->n_items[i].ol_amount = str->n_items[j].ol_amount;
  str->n_items[j].ol_amount = dtemp;

}

int NEWO( TPSVCINFO *rqst)
{
   if (neworder_tx(rqst)) {
      tpreturn(TPFAIL, 0, rqst->data, sizeof(struct newo_inf), 0);
   }
   else {
      tpreturn(TPSUCCESS, 0, rqst->data, sizeof(struct newo_inf), 0);
   }
}
```

tpcc_srv_ords.c

```
/*
 * Copyright (c) 1995 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)tpcso_srv_ords.c     1.17     97/01/02    SMI"

/
*=======================================================
============+
 |       Copyright (c) 1995  Oracle Corp, Redwood Shores, CA       |
 |                 OPEN SYSTEMS PERFORMANCE GROUP                 |
 |                      All Rights Reserved                    |
 +======================================================
============+
 | FILENAME
 |    plord.c
 | DESCRIPTION
 |    OCI version (using PL/SQL stored procedure) of
 |    ORDER STATUS transaction in TPC-C benchmark.
/* Copyright (c) 2002, Oracle Corporation.  All rights reserved.  */

/*


   NAME
     tkvcordq.c - OCI version  using queues of ORDER STATUS
            transaction in TPC-C benchmark.

   DESCRIPTION
     <short description of facility this file declares/defines>

   EXPORT FUNCTION(S)

   INTERNAL FUNCTION(S)
     <other external functions defined - one-line descriptions>

   STATIC FUNCTION(S)
     <static functions defined - one-line descriptions>

   NOTES
     <other useful comments, qualifications, etc.>

   MODIFIED   (MM/DD/YY)
   xnie        06/25/02 - queue open cluster join.
   heri        05/07/02 - Fix error in cursor.
   heri        02/01/02 - Cleanup, remove indicator values and return codes.
   lwang       07/25/01 - Merged lwang_tpccitrc
   lwang       07/23/01 - fix include
   lwang       07/23/01 - Creation
  *** As perf Mar 4, 2009 pre-audit: changes for interactive compliance;
added 'static'
 +=====================================================
=============*/
#ifndef ORA_TPCC
# define ORA_TPCC
# include "tpcc.h"
#endif

#include <stdlib.h>
#include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/msg.h>


/* Tuxedo */
#include "atmi.h"
#include "userlog.h"


struct ord_itm_inf {
        int ol_supply_w_id;
        int ol_i_id;
        int         ol_quantity;
        double ol_amount;
        char ol_delivery_d[11];
};

struct ord_inf {
        int o_ol_cnt;
        int w_id;
        int d_id;
        int c_id;
        int o_id;
        int o_carrier_id;
        double c_balance;
        char c_first[17];
        char c_middle[3];
        char c_last[17];
        text o_entry_d[20];
        struct ord_itm_inf o_items[15];
```

```
};

#define SQLTXT1 "alter session set isolation_level = serializable"

#define MOVETO(element, struct_name) element = struct_name->element
#define MOVEBACK(element, struct_name) struct_name->element =
element
#define MOVECBACK(element, cnt, struct_name) strncpy(struct_name-
>element, element, cnt)

/* List of fields in ordstat */
/* This structure should be EXACTLY identical to the one declared in
client.h */
/* Lists of items on an order */


static int tx_count = 0;       /* Transaction counter */

#if ACID
#include <sys/types.h>
#include <time.h>
time_t curtime;
time_t *timep = &curtime;
#endif

/****************************
 * BEGIN BLOCK OF COMMON CODE
 ****************************/
/*------------------------------------------------------------------------
                  STATIC FUNCTION DECLARATIONS
  ------------------------------------------------------------------------*/




#define SQLCUR0 "SELECT rowid FROM cust \
               WHERE c_d_id = :d_id AND c_w_id = :w_id AND c_last =
:c_last \
               ORDER BY c_last, c_d_id, c_w_id, c_first"

#define SQLCUR1 "SELECT /*+ USE_NL(cust) INDEX_DESC(ordr
iordr2) */  \
               c_id, c_balance, c_first, c_middle, c_last, \
               o_id, o_entry_d, o_carrier_id, o_ol_cnt, ordr.rowid \
               FROM cust, ordr \
               WHERE cust.rowid = :cust_rowid \
               AND   o_d_id = c_d_id AND o_w_id = c_w_id AND o_c_id =
c_id \
               ORDER BY o_c_id DESC, o_d_id DESC, o_w_id DESC, o_id
DESC"


#define SQLCUR2 "SELECT /*+ USE_NL(cust)  INDEX_DESC (ordr
iordr2) */   \
               c_balance, c_first, c_middle, c_last, \
               o_id, o_entry_d, o_carrier_id, o_ol_cnt, ordr.rowid \
               FROM cust, ordr \
               WHERE c_id = :c_id AND c_d_id = :d_id AND c_w_id = :w_id \
               AND o_d_id = c_d_id AND o_w_id = c_w_id AND o_c_id = c_id
\
               ORDER BY o_c_id DESC, o_d_id DESC, o_w_id DESC , o_id
DESC"

#define SQLCUR3 "SELECT  /*+ INDEX(ordl) */ \
              ol_i_id, ol_supply_w_id, ol_quantity, ol_amount, ol_delivery_d \
              FROM ordl \
              WHERE ol_o_id = :o_id AND  ol_d_id = :d_id AND ol_w_id =
:w_id"

#ifdef  OLDER_VERSION
#define SQLCUR3 "SELECT  /*+ ORDERED USE_NL(ordl)
CLUSTER(ordl) */ \
               ol_i_id, ol_supply_w_id, ol_quantity, ol_amount, ol_delivery_d \
              FROM ordr, ordl \
              WHERE ordr.rowid = :ordr_rowid \
                AND o_id = ol_o_id AND  ol_d_id = o_d_id AND ol_w_id =
o_w_id"
#endif

#define SQLCUR4 "SELECT count(c_last) FROM cust \
               WHERE c_d_id = :d_id AND c_w_id = :w_id AND c_last =
:c_last "


struct ordctx {

   ub2 c_rowid_len[100];
   ub2 ol_supply_w_id_len[NITEMS];
   ub2 ol_i_id_len[NITEMS];
   ub2 ol_quantity_len[NITEMS];
   ub2 ol_amount_len[NITEMS];
   ub2 ol_delivery_d_len[NITEMS];
   ub2 ol_w_id_len;
   ub2 ol_d_id_len;
   ub2 ol_o_id_len;


   ub4 ol_supply_w_id_csize;
   ub4 ol_i_id_csize;
   ub4 ol_quantity_csize;
   ub4 ol_amount_csize;
   ub4 ol_delivery_d_csize;
   ub4 ol_w_id_csize;
   ub4 ol_d_id_csize;
   ub4 ol_o_id_csize;

   OCIStmt *curo0;
   OCIStmt *curo1;
   OCIStmt *curo2;
   OCIStmt *curo3;
   OCIStmt *curo4;
   OCIBind *c_id_bp;
   OCIBind *w_id_bp[4];
   OCIBind *d_id_bp[4];
   OCIBind *c_last_bp[2];
   OCIBind *o_id_bp;
   OCIBind *c_rowid_bp;
  /*  OCIBind *o_rowid_bp;  */
   OCIDefine *c_rowid_dp;
   OCIDefine *c_last_dp[2];
   OCIDefine *c_id_dp;
   OCIDefine *c_first_dp[2];
   OCIDefine *c_middle_dp[2];
   OCIDefine *c_balance_dp[2];
   OCIDefine *o_rowid_dp[2];
   OCIDefine *o_id_dp[2];
   OCIDefine *o_entry_d_dp[2];
   OCIDefine *o_cr_id_dp[2];
   OCIDefine *o_ol_cnt_dp[2];
   OCIDefine *ol_d_d_dp;
   OCIDefine *ol_i_id_dp;
   OCIDefine *ol_supply_w_id_dp;
   OCIDefine *ol_quantity_dp;
   OCIDefine *ol_amount_dp;
   OCIDefine *ol_d_base_dp;
   OCIDefine *c_count_dp;
   OCIRowid *c_rowid_ptr[100];
   OCIRowid *c_rowid_cust;
   OCIRowid *o_rowid;
   int cs;
   int cust_idx;
   int norow;
   int rcount;
   int somerows;
};

typedef struct ordctx ordctx;

struct defctx
{
 boolean reexec;
 ub4 count;
};
typedef struct defctx defctx;

static ordctx *octx;

static defctx cbctx;



static OCIDate o_entry_d_base;
static OCIDate ol_d_base[15];
/*
unsigned char o_entry_d_base[7];
 unsigned char ol_d_base[15][7];
 */
/* struct ord_inf elements */
static int w_id;
static int d_id;
static int c_id, bylastname;
static int o_id;
static int o_carrier_id;
static int o_ol_cnt;
static double c_balance;
static char c_first[17];
```

```
static char c_middle[3];
static char c_last[17];
/* char o_entry_d[20]; */
static text o_entry_d[20];
static ub4  datelen;

static int    ol_supply_w_id[15];
static int    ol_i_id[15];
static int    ol_quantity[15];
static int    ol_amount[15];
static ub4  ol_del_len[15];
static text  ol_delivery_d[15][11];

static int retries;
static int retries_serial;
static int retries_recoverr;
static int retries_snapshot;

/***************************
 * END BLOCK OF COMMON CODE
 ***************************/


int get_ords_tx_cnt()
{
        return tx_count;
}

/*
 * Function: init ordstat transaction
 * Prepare the ordstat transaction
 */

int init_ords_tx()
{

/***************************
 * BEGIN BLOCK OF COMMON CODE
 ***************************/

   int i;
   text stmbuf[SQL_BUF_SIZE];

                OCIStmt *curi;

   octx = (ordctx *) malloc (sizeof(ordctx));
   memset(octx,(char)0,sizeof(ordctx));
   octx->cs = 1;
   octx->norow = 0;
   octx->somerows = 10;
/* get the rowid handles */
   OCIERROR(errhp, OCIDescriptorAlloc((dvoid *)tpcenv,(dvoid **)&octx-
>o_rowid,
                    (ub4)OCI_DTYPE_ROWID, (size_t) 0, (dvoid **)0));
   for(i=0;i<100;i++) {
    DISCARD OCIERROR(errhp, OCIDescriptorAlloc(tpcenv,
                (dvoid**)&octx->c_rowid_ptr[i], OCI_DTYPE_ROWID,0,
(dvoid**)0));
```

```
   }


   DISCARD OCIERROR(errhp,
     OCIHandleAlloc(tpcenv,(dvoid**)&octx->curo0,OCI_HTYPE_STMT,0,
(dvoid**)0));
   DISCARD OCIERROR(errhp,
     OCIHandleAlloc(tpcenv,(dvoid**)&octx->curo0,OCI_HTYPE_STMT,0,
(dvoid**)0));
   DISCARD OCIERROR(errhp,
     OCIHandleAlloc(tpcenv,(dvoid**)&octx->curo1,OCI_HTYPE_STMT,0,
(dvoid**)0));
   DISCARD OCIERROR(errhp,
     OCIHandleAlloc(tpcenv,(dvoid**)&octx->curo2,OCI_HTYPE_STMT,0,
(dvoid**)0));
   DISCARD OCIERROR(errhp,
     OCIHandleAlloc(tpcenv,(dvoid**)&octx->curo3,OCI_HTYPE_STMT,0,
(dvoid**)0));
   DISCARD OCIERROR(errhp,
     OCIHandleAlloc(tpcenv,(dvoid**)&octx->curo4,OCI_HTYPE_STMT,0,
(dvoid**)0));

/*  c_id = 0, use find customer by lastname. Get an array or rowid's back*/
   DISCARD sprintf((char *) stmbuf, SQLCUR0);
   DISCARD OCIERROR(errhp,
     OCIStmtPrepare(octx->curo0,errhp,stmbuf,(ub4)strlen((char *)stmbuf),
                         OCI_NTV_SYNTAX,OCI_DEFAULT));
   DISCARD OCIERROR(errhp,
     OCIAttrSet(octx->curo0,OCI_HTYPE_STMT,&octx->norow,0,
               OCI_ATTR_PREFETCH_ROWS,errhp));
/* get order/customer info back based on rowid */
   DISCARD sprintf((char *) stmbuf, SQLCUR1);
   DISCARD OCIERROR(errhp,
     OCIStmtPrepare(octx->curo1,errhp,stmbuf,(ub4)strlen((char *)stmbuf),
                   OCI_NTV_SYNTAX,OCI_DEFAULT));
   DISCARD OCIERROR(errhp,
     OCIAttrSet(octx->curo1,OCI_HTYPE_STMT,&octx->norow,0,
               OCI_ATTR_PREFETCH_ROWS,errhp));

/*  c_id == 0, use lastname to find customer */
   DISCARD sprintf((char *) stmbuf, SQLCUR2);
   DISCARD OCIERROR(errhp,
     OCIStmtPrepare(octx->curo2,errhp,stmbuf,(ub4)strlen((char *)stmbuf),
                   OCI_NTV_SYNTAX,OCI_DEFAULT));
   DISCARD OCIERROR(errhp,
     OCIAttrSet(octx->curo2,OCI_HTYPE_STMT,&octx->norow,0,
               OCI_ATTR_PREFETCH_ROWS,errhp));

   DISCARD sprintf((char *) stmbuf, SQLCUR3);
   DISCARD OCIERROR(errhp,
     OCIStmtPrepare(octx->curo3,errhp,stmbuf,(ub4)strlen((char *)stmbuf),
                   OCI_NTV_SYNTAX,OCI_DEFAULT));
   DISCARD OCIERROR(errhp,
     OCIAttrSet(octx->curo3,OCI_HTYPE_STMT,&octx->norow,0,
               OCI_ATTR_PREFETCH_ROWS,errhp));

   DISCARD sprintf((char *) stmbuf, SQLCUR4);
   DISCARD OCIERROR(errhp,
```

```
     OCIStmtPrepare(octx->curo4,errhp,stmbuf,(ub4)strlen((char *)stmbuf),
                   OCI_NTV_SYNTAX,OCI_DEFAULT));
   DISCARD OCIERROR(errhp,
     OCIAttrSet(octx->curo4,OCI_HTYPE_STMT,&octx->norow,0,
               OCI_ATTR_PREFETCH_ROWS,errhp));

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

     octx->ol_supply_w_id_len[i] = sizeof(int);
     octx->ol_i_id_len[i] = sizeof(int);
     octx->ol_quantity_len[i] = sizeof(int);
     octx->ol_amount_len[i] = sizeof(int);
     octx->ol_delivery_d_len[i] = sizeof(ol_d_base[0]);
   }
   octx->ol_supply_w_id_csize = NITEMS;
   octx->ol_i_id_csize = NITEMS;
   octx->ol_quantity_csize = NITEMS;
   octx->ol_amount_csize = NITEMS;
   octx->ol_delivery_d_csize = NITEMS;
   octx->ol_w_id_csize = NITEMS;
   octx->ol_o_id_csize = NITEMS;
   octx->ol_d_id_csize = NITEMS;
   octx->ol_w_id_len = sizeof(int);
   octx->ol_d_id_len = sizeof(int);
   octx->ol_o_id_len = sizeof(int);

   /* bind variables */

   /* c_id (customer id) is not known */
   OCIBND(octx->curo0,octx->w_id_bp[0],errhp,":w_id",ADR(w_id),
         SIZ(int),SQLT_INT);
   OCIBND(octx->curo0,octx->d_id_bp[0],errhp,":d_id",ADR(d_id),
         SIZ(int),SQLT_INT);
   OCIBND(octx->curo0,octx->c_last_bp[0],errhp,":c_last",c_last,
         SIZ(c_last), SQLT_STR);
   OCIDFNRA(octx->curo0,octx->c_rowid_dp,errhp,1,octx->c_rowid_ptr,
           SIZ(OCIRowid*), SQLT_RDD, NULL, octx->c_rowid_len, NULL);

   OCIBND(octx->curo1,octx->c_rowid_bp,errhp,":cust_rowid", &octx-
>c_rowid_cust,
         sizeof( octx->c_rowid_ptr[0]),SQLT_RDD);
   OCIDEF(octx->curo1,octx-
>c_id_dp,errhp,1,ADR(c_id),SIZ(int),SQLT_INT);
   OCIDEF(octx->curo1,octx->c_balance_dp[0],errhp,2,ADR(c_balance),
          SIZ(double),SQLT_FLT);
   OCIDEF(octx->curo1,octx->c_first_dp[0],errhp,3,c_first,SIZ(c_first)-1,
          SQLT_CHR);
   OCIDEF(octx->curo1,octx->c_middle_dp[0],errhp,4,c_middle,
          SIZ(c_middle)-1,SQLT_AFC);
   OCIDEF(octx->curo1,octx->c_last_dp[0],errhp,5,c_last,SIZ(c_last)-1,
          SQLT_CHR);
   OCIDEF(octx->curo1,octx-
>o_id_dp[0],errhp,6,ADR(o_id),SIZ(int),SQLT_INT);
   OCIDEF(octx->curo1,octx->o_entry_d_dp[0],errhp,7,
          &o_entry_d_base,SIZ(OCIDate),SQLT_ODT);
   OCIDEF(octx->curo1,octx->o_cr_id_dp[0],errhp,8,ADR(o_carrier_id),
          SIZ(int),SQLT_INT);
   OCIDEF(octx->curo1,octx->o_ol_cnt_dp[0],errhp,9,ADR(o_ol_cnt),
```

```
        SIZ(int),SQLT_INT);
  OCIDEF(octx->curo1,octx->o_rowid_dp[0],errhp,10,ADR(octx-
>o_rowid),
        SIZ(OCIRowid*),SQLT_RDD);


/* Bind for third cursor , no-zero customer id */
  OCIBND(octx->curo2,octx->w_id_bp[1],errhp,":w_id",ADR(w_id),
        SIZ(int),SQLT_INT);
  OCIBND(octx->curo2,octx->d_id_bp[1],errhp,":d_id",ADR(d_id),
              SIZ(int),SQLT_INT);
  OCIBND(octx->curo2,octx->c_id_bp,errhp,":c_id",ADR(c_id),
              SIZ(int),SQLT_INT);
  OCIDEF(octx->curo2,octx->c_balance_dp[1],errhp,1,ADR(c_balance),
              SIZ(double),SQLT_FLT);
  OCIDEF(octx->curo2,octx->c_first_dp[1],errhp,2,c_first,SIZ(c_first)-1,
        SQLT_CHR);
  OCIDEF(octx->curo2,octx->c_middle_dp[1],errhp,3,c_middle,
        SIZ(c_middle)-1,SQLT_AFC);
  OCIDEF(octx->curo2,octx->c_last_dp[1],errhp,4,c_last,SIZ(c_last)-1,
        SQLT_CHR);
  OCIDEF(octx->curo2,octx-
>o_id_dp[1],errhp,5,ADR(o_id),SIZ(int),SQLT_INT);
  OCIDEF(octx->curo2,octx->o_entry_d_dp[1],errhp,6, &o_entry_d_base,
        SIZ(OCIDate),SQLT_ODT);
  OCIDEF(octx->curo2, octx->o_cr_id_dp[1],errhp,7,ADR(o_carrier_id),
        SIZ(int), SQLT_INT);
  OCIDEF(octx->curo2,octx->o_ol_cnt_dp[1],errhp,8,ADR(o_ol_cnt),
        SIZ(int),SQLT_INT);
  OCIDEF(octx->curo2,octx->o_rowid_dp[1],errhp,9,ADR(octx->o_rowid),
        SIZ(OCIRowid*),SQLT_RDD);
/* Bind for last cursor */

  OCIBND(octx->curo3,octx->w_id_bp[2],errhp,":w_id",ADR(w_id),
SIZ(int),SQLT_INT);
  OCIBND(octx->curo3,octx->d_id_bp[2],errhp,":d_id",ADR(d_id),
SIZ(int),SQLT_INT);
  OCIBND(octx->curo3,octx->o_id_bp,errhp,":o_id",ADR(o_id),
SIZ(int),SQLT_INT);
/*
  OCIBND(octx->curo3,octx->c_id_bp,errhp,":c_id",ADR(c_id),
SIZ(int),SQLT_INT);
 */

  /*
   OCIBND(octx->curo3,octx->o_rowid_bp,errhp,":ordr_rowid",
        &octx->o_rowid, SIZ(OCIRowid*),SQLT_RDD);
              */

  OCIDFNRA(octx->curo3, octx->ol_i_id_dp, errhp, 1,
ol_i_id,SIZ(int),SQLT_INT,
              NULL,octx->ol_i_id_len, NULL);
  OCIDFNRA(octx->curo3,octx->ol_supply_w_id_dp,errhp,2,
ol_supply_w_id,
         SIZ(int),SQLT_INT, NULL,
         octx->ol_supply_w_id_len, NULL);
  OCIDFNRA(octx->curo3, octx->ol_quantity_dp,errhp,3,
ol_quantity,SIZ(int),
         SQLT_INT, NULL,octx->ol_quantity_len, NULL);
  OCIDFNRA(octx->curo3,octx->ol_amount_dp,errhp,4,ol_amount,
SIZ(int),
         SQLT_INT,NULL, octx->ol_amount_len, NULL);
  OCIDFNRA(octx->curo3,octx-
>ol_d_base_dp,errhp,5,ol_d_base,SIZ(OCIDate),
         SQLT_ODT, NULL,octx->ol_delivery_d_len,NULL);

  OCIBND(octx->curo4,octx->w_id_bp[3],errhp,":w_id",ADR(w_id),
       SIZ(int),SQLT_INT);
  OCIBND(octx->curo4,octx->d_id_bp[3],errhp,":d_id",ADR(d_id),
       SIZ(int),SQLT_INT);
  OCIBND(octx->curo4,octx->c_last_bp[1],errhp,":c_last",c_last,
       SIZ(c_last), SQLT_STR);
  OCIDEF(octx->curo4,octx->c_count_dp,errhp,1,ADR(octx-
>rcount),SIZ(int),
       SQLT_INT);


  return (0);

}

/****************************
 * END BLOCK OF COMMON CODE
 ****************************/

int ordstat_tx(TPSVCINFO *rqst)
{
        int i;
        int execstatus, rcount,errcode;
        struct ord_inf *ordstat_p;
        ordstat_p = (struct ord_inf *)(rqst->data);

        MOVETO(w_id, ordstat_p);
        MOVETO(d_id, ordstat_p);
        MOVETO(c_id, ordstat_p);

        tx_count++;
#if ACID
        time(timep);
        userlog("ACID ORDSTAT Transaction begun at %s\n",
ctime(timep));
#endif

/****************************
 * BEGIN BLOCK OF COMMON CODE
 ****************************/
  retries = 0;
  retries_serial = 0;
  retries_recoverr = 0;
  retries_snapshot = 0;
        if (c_id == 0) {
                bylastname = 1;
                strcpy(c_last, ordstat_p->c_last);
        }
        else {
                bylastname = 0;
                c_last[1] = '\0';
        }
  for (i = 0; i < NITEMS; i++) {
    octx->ol_supply_w_id_len[i] = sizeof(int);
    octx->ol_i_id_len[i] = sizeof(int);
    octx->ol_quantity_len[i] = sizeof(int);
    octx->ol_amount_len[i] = sizeof(int);
    octx->ol_delivery_d_len[i] = sizeof(OCIDate);
  }
  octx->ol_supply_w_id_csize = NITEMS;
  octx->ol_i_id_csize = NITEMS;
  octx->ol_quantity_csize = NITEMS;
  octx->ol_amount_csize = NITEMS;
  octx->ol_delivery_d_csize = NITEMS;
retry:
  if(bylastname)
  {
   cbctx.reexec = FALSE;
   execstatus=OCIStmtExecute(tpcsvc,octx->curo0,errhp,100,0,
          NULLP(CONST
OCISnapshot),NULLP(OCISnapshot),OCI_DEFAULT);
   /* will get OCI_NO_DATA if <100 found */
   if ((execstatus != OCI_NO_DATA) && (execstatus != OCI_SUCCESS))
    {
     errcode=OCIERROR(errhp, execstatus);
     if((errcode == NOT_SERIALIZABLE) || (errcode == RECOVERR))
     {
      DISCARD OCITransCommit(tpcsvc,errhp,OCI_DEFAULT);
      retries++;
      goto retry;
     } else {
      userlog("%d] ordstat_tx ERROR %s:%d - EXITING -1, execstatus=
%d, errcode=%d\n",  getpid(), __FILE__, __LINE__, execstatus, errcode);
      return -1;
     }
    }
   if (execstatus == OCI_NO_DATA) /* there are no more rows */
    {
    /* get rowcount, find middle one */
     DISCARD OCIAttrGet(octx-
>curo0,OCI_HTYPE_STMT,&rcount,NULL,
              OCI_ATTR_ROW_COUNT,errhp);
     if (rcount <1)
     {
      userlog("ORDERSTATUS  rcount=%d\n",rcount);
      return (-1);
     }
     octx->cust_idx=(rcount)/2 ;
    }
   else
    {


     /* count the number of rows */
     execstatus=OCIStmtExecute(tpcsvc,octx->curo4,errhp,1,0,
          NULLP(CONST
OCISnapshot),NULLP(OCISnapshot),OCI_DEFAULT);
     if ((execstatus != OCI_NO_DATA) && (execstatus != OCI_SUCCESS))
     {
```

```
              errcode=OCIERROR(errhp, execstatus);
         if ((errcode == NOT_SERIALIZABLE) || (errcode == RECOVERR))
         {
          DISCARD OCITransCommit(tpcsvc,errhp,OCI_DEFAULT);
          retries++;
          goto retry;
         } else {
                userlog("%d] ordstat_tx ERROR %s:%d - EXITING -1,
execstatus=%d, errcode=%d\n",  getpid(), __FILE__, __LINE__, execstatus,
errcode);
          return -1;
         }
        }
       if (octx->rcount+1 < 2*10 )
         octx->cust_idx=(octx->rcount+1)/2 ;
       else            /* */
       {

         cbctx.reexec = TRUE;
         cbctx.count = (octx->rcount+1)/2 ;
         execstatus=OCIStmtExecute(tpcsvc,octx->curo0,errhp,cbctx.count,
                              0,NULLP(CONST OCISnapshot),
                              NULLP(OCISnapshot),OCI_DEFAULT);
         /* will get OCI_NO_DATA if <100 found */
         if (cbctx.count > 0)
         {
           userlog ("did not get all rows ");
           return (-1);
         }

         if ((execstatus != OCI_NO_DATA) && (execstatus !=
OCI_SUCCESS))
         {
          errcode=OCIERROR(errhp, execstatus);
          if((errcode == NOT_SERIALIZABLE) || (errcode == RECOVERR))
          {
           DISCARD OCITransCommit(tpcsvc,errhp,OCI_DEFAULT);
           retries++;
           goto retry;
          } else {
                                 userlog("%d] ordstat_tx ERROR %s:%d - EXITING
-1, execstatus=%d, errcode=%d\n",  getpid(), __FILE__, __LINE__,
execstatus, errcode);
                  return -1;
          }
         }
         octx->cust_idx=0 ;
        }
     }

     octx->c_rowid_cust = octx->c_rowid_ptr[octx->cust_idx];
     execstatus=OCIStmtExecute(tpcsvc,octx->curo1,errhp,1,0,
                NULLP(CONST
OCISnapshot),NULLP(OCISnapshot),OCI_DEFAULT);
     if (execstatus != OCI_SUCCESS)
     {
       errcode=OCIERROR(errhp,execstatus);
       DISCARD OCITransCommit(tpcsvc,errhp,OCI_DEFAULT);
```

```
      if((errcode == NOT_SERIALIZABLE) || (errcode == RECOVERR)
                || (errcode == SNAPSHOT_TOO_OLD))
      {
        retries++;
        goto retry;
        } else {
                                userlog("%d] ordstat_tx ERROR %s:%d - EXITING
-1, execstatus=%d, errcode=%d\n",  getpid(), __FILE__, __LINE__,
execstatus, errcode);
        return -1;
      }
     }
   }
   else
   {
    execstatus=OCIStmtExecute(tpcsvc,octx->curo2,errhp,1,0,
                    NULLP(CONST OCISnapshot),NULLP(OCISnapshot),
                    OCI_DEFAULT);
    if (execstatus != OCI_SUCCESS)
    {
      errcode=OCIERROR(errhp,execstatus);
      DISCARD OCITransCommit(tpcsvc,errhp,OCI_DEFAULT);
      if((errcode == NOT_SERIALIZABLE) || (errcode == RECOVERR)
               || (errcode == SNAPSHOT_TOO_OLD))
      {
       retries++;
       goto retry;
      }
      else
      {
               userlog("%d] ordstat_tx ERROR %s:%d - EXITING -1,
execstatus=%d, errcode=%d\n",  getpid(), __FILE__, __LINE__, execstatus,
errcode);
       return -1;
      }
     }
   }
   octx->ol_w_id_len = sizeof(int);
   octx->ol_d_id_len = sizeof(int);
   octx->ol_o_id_len = sizeof(int);

   execstatus = OCIStmtExecute(tpcsvc,octx->curo3,errhp,o_ol_cnt,0,
                    NULLP(CONST OCISnapshot),NULLP(OCISnapshot),
                    OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
   if (execstatus != OCI_SUCCESS )
   {
    errcode=OCIERROR(errhp,execstatus);
    DISCARD OCITransCommit(tpcsvc,errhp,OCI_DEFAULT);
    if((errcode == NOT_SERIALIZABLE) || (errcode == RECOVERR)
              || (errcode == SNAPSHOT_TOO_OLD))
    {
     retries++;
     goto retry;
    }
    else
    {
               userlog("%d] ordstat_tx ERROR %s:%d - EXITING -1,
execstatus=%d, errcode=%d\n",  getpid(), __FILE__, __LINE__, execstatus,
```

```
errcode);
      return -1;
     }

   }

  /* clean up and convert the delivery dates  put out debug return data*/
   for (i = 0; i < o_ol_cnt; i++)
   {
    ol_del_len[i]=sizeof(ol_delivery_d[i]);
    DISCARD OCIERROR(errhp,OCIDateToText(errhp,&ol_d_base[i],
      (const text*)SHORTDATE,(ub1)strlen(SHORTDATE),(text*)0,0,
       &ol_del_len[i],  ordstat_p->o_items[i].ol_delivery_d));
/*
              cvtdmy(ol_d_base[i],ol_delivery_d[i]);
cvtdmyhms(o_entry_d_base, ordstat_p->o_entry_d);
*/
    ordstat_p->o_items[i].ol_supply_w_id =  ol_supply_w_id[i];
    ordstat_p->o_items[i].ol_i_id =  ol_i_id[i];
    ordstat_p->o_items[i].ol_quantity =  ol_quantity[i];
    ordstat_p->o_items[i].ol_amount =  (double)(ol_amount[i])/ 100;

   }


  datelen = sizeof(ordstat_p->o_entry_d);
  OCIERROR(errhp,
      OCIDateToText(errhp,&o_entry_d_base,
(text*)FULLDATE,SIZ(FULLDATE),(text*)0,0,
                 &datelen, ordstat_p->o_entry_d));


/***************************
 * END BLOCK OF COMMON CODE
 ***************************/

#if ACID
              time(timep);
              userlog("ACID ORDSTAT for w_id = %d, d_id = %d, c_id = %d,
o_id = %d\n",
                            w_id, d_id, c_id, o_id);
              userlog("ACID ORDSTAT Transaction completed at %s\n",
ctime(timep));
#endif

              MOVEBACK(o_id, ordstat_p);
              MOVEBACK(o_carrier_id, ordstat_p);
              MOVEBACK(o_ol_cnt, ordstat_p);
              /* MOVEBACK(c_balance, ordstat_p); */
              ordstat_p->c_balance = c_balance / 100; /* convert to dollars &
cents */
              MOVECBACK(c_first, 16, ordstat_p);
              MOVECBACK(c_middle, 2, ordstat_p);
              MOVECBACK(c_last, 16, ordstat_p);
              /*              MOVECBACK(o_entry_d, 19, ordstat_p);   already
done */

/* for search by clastname
```

```
 */

          MOVEBACK(c_id, ordstat_p);
          return(0);
}


void cleanup_ords(int code)
{
          if (octx)
                    free(octx);

  /* log off */
   exit(code);
}

int ORDS(TPSVCINFO *rqst)
{
      if (ordstat_tx(rqst) )
            tpreturn(TPFAIL, 0, rqst->data, sizeof(struct ord_inf), 0);
      else
            tpreturn(TPSUCCESS, 0, rqst->data, sizeof(struct ord_inf), 0);
}
```

tpcc_srv_paym.c

```
/*
 * Copyright (c) 1995 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)tpcso_srv_paym.c        1.17        97/01/02    SMI"

/
*======================================================
============+
 |       Copyright (c) 1995  Oracle Corp, Redwood Shores, CA      |
 |              OPEN SYSTEMS PERFORMANCE GROUP              |
 |                    All Rights Reserved                    |
 +======================================================
=============+
 | FILENAME
 |    plpay.c
 | DESCRIPTION
 |    OCI version (using PL/SQL stored procedure) of
 |    PAYMENT transaction in TPC-C benchmark.
 | *** As perf Mar 4, 2009 pre-audit: changes for interactive compliance
 +======================================================
=============*/
#ifndef ORA_TPCC
# define ORA_TPCC
# include "tpcc.h"
#endif


#include <stdlib.h>
#include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/msg.h>

/* Tuxedo */
#include "atmi.h"
#include "userlog.h"


static int tx_count = 0;

/*#include "proc_stat.h" */



#define MOVETO(element, struct_name) \
                                        element = struct_name ->
element
#define MOVEBACK(element, struct_name) \
                                        struct_name -> element =
element
#define MOVECTO(element, cnt, struct_name) {
                    \
                                        int             i;
                              \
                                        strncpy(element, struct_name ->
element, cnt); \
                                        element[cnt] = '\0';
                    \
                                        for(i=0; i<=cnt; i++)
                    \
                                        {
                              \

          if(isspace(element[i]))               \
                                                  {
                              \
                                                          element[i]
= '\0';       \
                                                          break;
                              \
                                                  }
                              \
                                        }
                              \
                              }
#define MOVECBACK(element, cnt, struct_name) \
                                        strncpy(struct_name -> element,
element, cnt)
struct pay_inf {
          int            w_id;
          int            d_id;
          int            c_id;
          int            c_w_id;
          int            c_d_id;
          double h_amount;
          double c_credit_lim;
          double c_balance;
          double c_discount;
          char h_date[20];
          char w_street_1[21];
          char w_street_2[21];
          char w_city[21];
          char w_state[3];
          char w_zip[11];
          char d_street_1[21];
          char d_street_2[21];
          char d_city[21];
          char d_state[3];
          char d_zip[11];
          char c_first[17];
          char c_middle[3];
          char c_last[17];
          char c_street_1[21];
          char c_street_2[21];
          char c_city[21];
          char c_state[3];
          char c_zip[11];
          char c_phone[17];
          char c_since[11];
          char c_credit[3];
     char c_data[201];
};


#if ACID
#include <sys/types.h>
#include <time.h>
static time_t curtime;
static time_t *timep = &curtime;
#endif


/***************************
 * BEGIN BLOCK OF COMMON CODE
 ***************************/
static OCIDate cr_date;
static OCIDate c_since;

/* List of fields in payment */

static int retry;
static char c_data[201];

static int    w_id;
static int    d_id;
static int    c_id, bylastname;
static int    c_w_id;
static int    c_d_id;
static int h_amount;
static int c_credit_lim;
static double c_balance;
static float c_discount;
/*char h_date[20]; */
static text h_date[20];
static char w_street_1[21];
static char w_street_2[21];
```

```
static char w_city[21];
static char w_state[3];
static char w_zip[10];
static char d_street_1[21];
static char d_street_2[21];
static char d_city[21];
static char d_state[3];
static char d_zip[10];
static char c_first[17];
static char c_middle[3];
static char c_last[17];
static char c_street_1[21];
static char c_street_2[21];
static char c_city[21];
static char c_state[3];
static char c_zip[10];
static char c_phone[17];
static text c_since_d[11];
static char c_credit[3];
static int     retries;



#define SQLTXT_INIT "BEGIN inittpcc.init_pay; END;"

struct payctx {
  OCIStmt *curpi;
  OCIStmt *curp0;
  OCIStmt *curp1;
  OCIBind *w_id_bp[2];
  ub2 w_id_len;

  OCIBind *d_id_bp[2];
  ub2 d_id_len;

  OCIBind *c_w_id_bp[2];
  ub2 c_w_id_len;

  OCIBind *c_d_id_bp[2];
  ub2 c_d_id_len;

  OCIBind *c_id_bp[2];
  ub2 c_id_len;

  OCIBind *h_amount_bp[2];
  ub2 h_amount_len;

  OCIBind *c_last_bp[2];
  ub2 c_last_len;

  OCIBind *w_street_1_bp[2];
  ub2 w_street_1_len;

  OCIBind *w_street_2_bp[2];
  ub2 w_street_2_len;

  OCIBind *w_city_bp[2];
  ub2 w_city_len;

  OCIBind *w_state_bp[2];
  ub2 w_state_len;

  OCIBind *w_zip_bp[2];
  ub2 w_zip_len;

  OCIBind *d_street_1_bp[2];
  ub2 d_street_1_len;

  OCIBind *d_street_2_bp[2];
  ub2 d_street_2_len;

  OCIBind *d_city_bp[2];
  ub2 d_city_len;

  OCIBind *d_state_bp[2];
  ub2 d_state_len;

  OCIBind *d_zip_bp[2];
  ub2 d_zip_len;

  OCIBind *c_first_bp[2];
  ub2 c_first_len;

  OCIBind *c_middle_bp[2];
  ub2 c_middle_len;

  OCIBind *c_street_1_bp[2];
  ub2 c_street_1_len;

  OCIBind *c_street_2_bp[2];
  ub2 c_street_2_len;

  OCIBind *c_city_bp[2];
  ub2 c_city_len;

  OCIBind *c_state_bp[2];
  ub2 c_state_len;

  OCIBind *c_zip_bp[2];
  ub2 c_zip_len;

  OCIBind *c_phone_bp[2];
  ub2 c_phone_len;

  OCIBind *c_since_bp[2];
  ub2 c_since_len;

  OCIBind *c_credit_bp[2];
  ub2 c_credit_len;

  OCIBind *c_credit_lim_bp[2];
  ub2 c_credit_lim_len;

  OCIBind *c_discount_bp[2];
  ub2 c_discount_len;

  OCIBind *c_balance_bp[2];
  ub2 c_balance_len;

  OCIBind *c_data_bp[2];
  ub2 c_data_len;

  OCIBind *h_date_bp[2];
  ub2 h_date_len;

  OCIBind *retries_bp[2];
  ub2 retries_len;

  OCIBind *cr_date_bp[2];
  ub2 cr_date_len;

  OCIBind *byln_bp[2];
  ub2 byln_len;
};

typedef struct payctx payctx;


static payctx *pctx;

/****************************
 * END BLOCK OF COMMON CODE
 ****************************/


int get_paym_tx_cnt()
{
       return tx_count;
}


/*
 * Function: init payment transaction
 * Prepare the payment transaction
 */

/****************************
 * BEGIN BLOCK OF COMMON CODE
 ****************************/


int init_paym_tx()
{


   text stmbuf[SQL_BUF_SIZE];
   pctx = (payctx *)malloc(sizeof(payctx));
   memset(pctx,(char)0,sizeof(payctx));


/* cursor for init */
   DISCARD OCIERROR(errhp,OCIHandleAlloc(tpcenv, (dvoid **)(&(pctx-
>curpi)),
          OCI_HTYPE_STMT,0,(dvoid**)0));
```

```
  DISCARD OCIERROR(errhp,OCIHandleAlloc(tpcenv, (dvoid **)(&(pctx-
>curp0)),
         OCI_HTYPE_STMT,0,(dvoid**)0));
  DISCARD OCIERROR(errhp,OCIHandleAlloc(tpcenv, (dvoid **)(&(pctx-
>curp1)),
         OCI_HTYPE_STMT,0,(dvoid**)0));

  /*  build the init statement  and execute it */

  sprintf ((char*)stmbuf, SQLTXT_INIT);
  DISCARD OCIERROR(errhp,OCIStmtPrepare(pctx->curpi, errhp, stmbuf,
         strlen((char *)stmbuf), OCI_NTV_SYNTAX, OCI_DEFAULT));
  DISCARD OCIERROR(errhp, OCIStmtExecute(tpcsvc,pctx-
>curpi,errhp,1,0,
                 NULLP(CONST
OCISnapshot),NULLP(OCISnapshot),OCI_DEFAULT));

  /* customer id !=  0, go by last name */

  sqlfile("paynz.sql",stmbuf);
  DISCARD OCIERROR(errhp,OCIStmtPrepare(pctx->curp0, errhp,
stmbuf,
         strlen((char *)stmbuf), OCI_NTV_SYNTAX, OCI_DEFAULT));

  /* customer id ==  0, go by last name */

  sqlfile("payz.sql",stmbuf); /* sqlfile opens $O/bench/.../blocks/... */
  DISCARD OCIERROR(errhp,OCIStmtPrepare(pctx->curp1, errhp,
stmbuf,
         strlen((char *)stmbuf), OCI_NTV_SYNTAX, OCI_DEFAULT));

 pctx->w_id_len = SIZ(w_id);
 pctx->d_id_len = SIZ(d_id);
 pctx->c_w_id_len = SIZ(c_w_id);
 pctx->c_d_id_len = SIZ(c_d_id);
 pctx->c_id_len = 0;
 pctx->h_amount_len = SIZ(h_amount);
 pctx->c_last_len = 0;
 pctx->w_street_1_len = 0;
 pctx->w_street_2_len = 0;
 pctx->w_city_len = 0;
 pctx->w_state_len = 0;
 pctx->w_zip_len = 0;
 pctx->d_street_1_len = 0;
 pctx->d_street_2_len = 0;
 pctx->d_city_len = 0;
 pctx->d_state_len = 0;
 pctx->d_zip_len = 0;
 pctx->c_first_len = 0;
 pctx->c_middle_len = 0;
 pctx->c_street_1_len = 0;
 pctx->c_street_2_len = 0;
 pctx->c_city_len = 0;
 pctx->c_state_len = 0;
 pctx->c_zip_len = 0;
 pctx->c_phone_len = 0;
 pctx->c_since_len = 0;
 pctx->c_credit_len = 0;
 pctx->c_credit_lim_len = 0;
 pctx->c_discount_len = 0;
 pctx->c_balance_len = sizeof(double);
 pctx->c_data_len = 0;
 pctx->h_date_len = 0;
 pctx->retries_len =SIZ(retries) ;
 pctx->cr_date_len = 7;



  /* bind variables */



  OCIBNDPL(pctx->curp0, pctx->w_id_bp[0],
errhp,":w_id",ADR(w_id),SIZ(int),
        SQLT_INT, NULL);
  OCIBNDPL(pctx->curp0, pctx->d_id_bp[0],
errhp,":d_id",ADR(d_id),SIZ(int),
        SQLT_INT, NULL);
  OCIBND(pctx->curp0, pctx->c_w_id_bp[0],
errhp,":c_w_id",ADR(c_w_id),SIZ(int),
        SQLT_INT);
  OCIBND(pctx->curp0, pctx->c_d_id_bp[0],
errhp,":c_d_id",ADR(c_d_id),SIZ(int),
        SQLT_INT);
  OCIBND(pctx->curp0, pctx->c_id_bp[0],
errhp,":c_id",ADR(c_id),SIZ(int),
        SQLT_INT);
  OCIBNDPL(pctx->curp0, pctx->h_amount_bp[0],
errhp,":h_amount",ADR(h_amount),
        SIZ(int),SQLT_INT,  &pctx->h_amount_len);
  OCIBNDPL(pctx->curp0, pctx->c_last_bp[0],
errhp,":c_last",c_last,SIZ(c_last),
        SQLT_STR, &pctx->c_last_len);
  OCIBNDPL(pctx->curp0, pctx->w_street_1_bp[0],
errhp,":w_street_1",w_street_1,
        SIZ(w_street_1),SQLT_STR, &pctx->w_street_1_len);
  OCIBNDPL(pctx->curp0, pctx->w_street_2_bp[0],
errhp,":w_street_2",w_street_2,
        SIZ(w_street_2),SQLT_STR, &pctx->w_street_2_len);
  OCIBNDPL(pctx->curp0, pctx->w_city_bp[0],
errhp,":w_city",w_city,SIZ(w_city),
        SQLT_STR, &pctx->w_city_len);
  OCIBNDPL(pctx->curp0, pctx->w_state_bp[0], errhp,":w_state",w_state,
        SIZ(w_state), SQLT_STR, &pctx->w_state_len);
  OCIBNDPL(pctx->curp0, pctx->w_zip_bp[0],
errhp,":w_zip",w_zip,SIZ(w_zip),
        SQLT_STR, &pctx->w_zip_len);
  OCIBNDPL(pctx->curp0, pctx->d_street_1_bp[0],
errhp,":d_street_1",d_street_1,
        SIZ(d_street_1),SQLT_STR, &pctx->d_street_1_len);
  OCIBNDPL(pctx->curp0, pctx->d_street_2_bp[0],
errhp,":d_street_2",d_street_2,
        SIZ(d_street_2),SQLT_STR, &pctx->d_street_2_len);
  OCIBNDPL(pctx->curp0, pctx->d_city_bp[0],
errhp,":d_city",d_city,SIZ(d_city),
        SQLT_STR, &pctx->d_city_len);
  OCIBNDPL(pctx->curp0, pctx->d_state_bp[0], errhp,":d_state",d_state,
        SIZ(d_state), SQLT_STR, &pctx->d_state_len);
  OCIBNDPL(pctx->curp0, pctx->d_zip_bp[0],
errhp,":d_zip",d_zip,SIZ(d_zip),
        SQLT_STR, &pctx->d_zip_len);
  OCIBNDPL(pctx->curp0, pctx->c_first_bp[0], errhp,":c_first",c_first,
        SIZ(c_first), SQLT_STR, &pctx->c_first_len);
  OCIBNDPL(pctx->curp0, pctx->c_middle_bp[0],
errhp,":c_middle",c_middle,2,
        SQLT_AFC, &pctx->c_middle_len);
  OCIBNDPL(pctx->curp0, pctx->c_street_1_bp[0],
errhp,":c_street_1",c_street_1,
        SIZ(c_street_1),SQLT_STR, &pctx->c_street_1_len);
  OCIBNDPL(pctx->curp0, pctx->c_street_2_bp[0],
errhp,":c_street_2",c_street_2,
        SIZ(c_street_2),SQLT_STR, &pctx->c_street_2_len);
  OCIBNDPL(pctx->curp0, pctx->c_city_bp[0],
errhp,":c_city",c_city,SIZ(c_city),
        SQLT_STR, &pctx->c_city_len);
  OCIBNDPL(pctx->curp0, pctx->c_state_bp[0], errhp,":c_state",c_state,
        SIZ(c_state), SQLT_STR, &pctx->c_state_len);
  OCIBNDPL(pctx->curp0, pctx->c_zip_bp[0],
errhp,":c_zip",c_zip,SIZ(c_zip),
        SQLT_STR,&pctx->c_zip_len);
  OCIBNDPL(pctx->curp0, pctx->c_phone_bp[0],
errhp,":c_phone",c_phone,
        SIZ(c_phone), SQLT_STR, &pctx->c_phone_len);
  OCIBNDPL(pctx->curp0, pctx->c_since_bp[0], errhp,":c_since",&c_since,
        SIZ(OCIDate), SQLT_ODT, &pctx->c_since_len);
  OCIBNDPL(pctx->curp0, pctx->c_credit_bp[0], errhp,":c_credit",c_credit,
        SIZ(c_credit),SQLT_CHR, &pctx->c_credit_len);
  OCIBNDPL(pctx->curp0, pctx->c_credit_lim_bp[0], errhp,":c_credit_lim",
        ADR(c_credit_lim),SIZ(int), SQLT_INT, &pctx->c_credit_lim_len);
  OCIBNDPL(pctx->curp0, pctx->c_discount_bp[0], errhp,":c_discount",
        ADR(c_discount),SIZ(c_discount), SQLT_FLT, &pctx-
>c_discount_len);
  OCIBNDPL(pctx->curp0, pctx->c_balance_bp[0], errhp,":c_balance",
        ADR(c_balance), SIZ(double),SQLT_FLT, &pctx->c_balance_len);
  OCIBNDPL(pctx->curp0, pctx->c_data_bp[0],
errhp,":c_data",c_data,SIZ(c_data),
        SQLT_STR, &pctx->c_data_len);
/*
  OCIBNDR(pctx->curp0, pctx->h_date_bp,
errhp,":h_date",h_date,SIZ(h_date),
        SQLT_STR, &pctx->h_date_ind, &pctx->h_date_len, &pctx-
>h_date_rc);
*/
  OCIBNDPL(pctx->curp0, pctx->retries_bp[0], errhp,":retry",ADR(retries),
        SIZ(int), SQLT_INT, &pctx->retries_len);
  OCIBNDPL(pctx->curp0, pctx->cr_date_bp[0],
errhp,":cr_date",ADR(cr_date),
        SIZ(OCIDate),SQLT_ODT, &pctx->cr_date_len);

/* ---- Binds for  the second cursor   */



  OCIBNDPL(pctx->curp1, pctx->w_id_bp[1],
errhp,":w_id",ADR(w_id),SIZ(int),
```

```
        SQLT_INT, &pctx->w_id_len);
  OCIBNDPL(pctx->curp1, pctx->d_id_bp[1],
errhp,":d_id",ADR(d_id),SIZ(int),
        SQLT_INT, &pctx->d_id_len);
  OCIBND(pctx->curp1, pctx->c_w_id_bp[1],
errhp,":c_w_id",ADR(c_w_id),SIZ(int),
        SQLT_INT);
  OCIBND(pctx->curp1, pctx->c_d_id_bp[1],
errhp,":c_d_id",ADR(c_d_id),SIZ(int),
        SQLT_INT);
  OCIBNDPL(pctx->curp1, pctx->c_id_bp[1],
errhp,":c_id",ADR(c_id),SIZ(int),
        SQLT_INT, &pctx->c_id_len);
  OCIBNDPL(pctx->curp1, pctx->h_amount_bp[1],
errhp,":h_amount",ADR(h_amount),
        SIZ(int),SQLT_INT, &pctx->h_amount_len);
  OCIBND(pctx->curp1, pctx->c_last_bp[1],
errhp,":c_last",c_last,SIZ(c_last),
        SQLT_STR);
  OCIBNDPL(pctx->curp1, pctx->w_street_1_bp[1],
errhp,":w_street_1",w_street_1,
        SIZ(w_street_1),SQLT_STR, &pctx->w_street_1_len);
  OCIBNDPL(pctx->curp1, pctx->w_street_2_bp[1],
errhp,":w_street_2",w_street_2,
        SIZ(w_street_2),SQLT_STR, &pctx->w_street_2_len);
  OCIBNDPL(pctx->curp1, pctx->w_city_bp[1],
errhp,":w_city",w_city,SIZ(w_city),
        SQLT_STR, &pctx->w_city_len);
  OCIBNDPL(pctx->curp1, pctx->w_state_bp[1], errhp,":w_state",w_state,
        SIZ(w_state), SQLT_STR, &pctx->w_state_len);
  OCIBNDPL(pctx->curp1, pctx->w_zip_bp[1],
errhp,":w_zip",w_zip,SIZ(w_zip),
        SQLT_STR, &pctx->w_zip_len);
  OCIBNDPL(pctx->curp1, pctx->d_street_1_bp[1],
errhp,":d_street_1",d_street_1,
        SIZ(d_street_1),SQLT_STR, &pctx->d_street_1_len);
  OCIBNDPL(pctx->curp1, pctx->d_street_2_bp[1],
errhp,":d_street_2",d_street_2,
        SIZ(d_street_2),SQLT_STR, &pctx->d_street_2_len);
  OCIBNDPL(pctx->curp1, pctx->d_city_bp[1],
errhp,":d_city",d_city,SIZ(d_city),
        SQLT_STR, &pctx->d_city_len);
  OCIBNDPL(pctx->curp1, pctx->d_state_bp[1], errhp,":d_state",d_state,
        SIZ(d_state), SQLT_STR, &pctx->d_state_len);
  OCIBNDPL(pctx->curp1, pctx->d_zip_bp[1],
errhp,":d_zip",d_zip,SIZ(d_zip),
        SQLT_STR, &pctx->d_zip_len);
  OCIBNDPL(pctx->curp1, pctx->c_first_bp[1], errhp,":c_first",c_first,
        SIZ(c_first), SQLT_STR, &pctx->c_first_len);
  OCIBNDPL(pctx->curp1, pctx->c_middle_bp[1],
errhp,":c_middle",c_middle,2,
        SQLT_AFC, &pctx->c_middle_len);

  OCIBNDPL(pctx->curp1, pctx->c_street_1_bp[1],
errhp,":c_street_1",c_street_1,
        SIZ(c_street_1),SQLT_STR, &pctx->c_street_1_len);
  OCIBNDPL(pctx->curp1, pctx->c_street_2_bp[1],
errhp,":c_street_2",c_street_2,
        SIZ(c_street_2),SQLT_STR, &pctx->c_street_2_len);
  OCIBNDPL(pctx->curp1, pctx->c_city_bp[1], errhp,":c_city",c_city,
        SIZ(c_city),SQLT_STR, &pctx->c_city_len);
  OCIBNDPL(pctx->curp1, pctx->c_state_bp[1], errhp,":c_state",c_state,
        SIZ(c_state), SQLT_STR, &pctx->c_state_len);
  OCIBNDPL(pctx->curp1, pctx->c_zip_bp[1],
errhp,":c_zip",c_zip,SIZ(c_zip),
        SQLT_STR, &pctx->c_zip_len);
  OCIBNDPL(pctx->curp1, pctx->c_phone_bp[1],
errhp,":c_phone",c_phone,
        SIZ(c_phone), SQLT_STR, &pctx->c_phone_len);
  OCIBNDPL(pctx->curp1, pctx->c_since_bp[1], errhp,":c_since",&c_since,
        SIZ(OCIDate), SQLT_ODT, &pctx->c_since_len);
  OCIBNDPL(pctx->curp1, pctx->c_credit_bp[1], errhp,":c_credit",c_credit,
        SIZ(c_credit),SQLT_CHR, &pctx->c_credit_len);
  OCIBNDPL(pctx->curp1, pctx->c_credit_lim_bp[1], errhp,":c_credit_lim",
        ADR(c_credit_lim),SIZ(int), SQLT_INT, &pctx->c_credit_lim_len);
  OCIBNDPL(pctx->curp1, pctx->c_discount_bp[1], errhp,":c_discount",
        ADR(c_discount),SIZ(c_discount), SQLT_FLT, &pctx-
>c_discount_len);
  OCIBNDPL(pctx->curp1, pctx->c_balance_bp[1], errhp,":c_balance",
        ADR(c_balance), SIZ(double),SQLT_FLT, &pctx->c_balance_len);
  OCIBNDPL(pctx->curp1, pctx->c_data_bp[1],
errhp,":c_data",c_data,SIZ(c_data),
        SQLT_STR, &pctx->c_data_len);
/*
  OCIBNDR(pctx->curp1, pctx->h_date_bp1,
errhp,":h_date",h_date,SIZ(h_date),
        SQLT_STR, &pctx->h_date_ind, &pctx->h_date_len, &pctx-
>h_date_rc);
*/
  OCIBNDPL(pctx->curp1, pctx->retries_bp[1], errhp,":retry",ADR(retries),
        SIZ(int), SQLT_INT, &pctx->retries_len);
  OCIBNDPL(pctx->curp1, pctx->cr_date_bp[1],
errhp,":cr_date",ADR(cr_date),
        SIZ(OCIDate),SQLT_ODT, &pctx->cr_date_len);

  return (0);

}

int execstatus,errcode;

/****************************
 * END BLOCK OF COMMON CODE
 ****************************/


int payment_tx(TPSVCINFO *rqst)
{
ub4 hlen;
ub4  sincelen;
              struct pay_inf *payment_p;
      payment_p = (struct pay_inf *)(rqst->data);
              MOVETO(w_id, payment_p);
              MOVETO(d_id, payment_p);
              MOVETO(c_id, payment_p);
              MOVETO(c_w_id, payment_p);
              MOVETO(c_d_id, payment_p);

              h_amount = (int)(payment_p->h_amount * 100);
              strcpy(c_last, payment_p->c_last);
              tx_count++;

#if ACID
              time(timep);
              userlog("ACID PAYMENT Transaction Begun at %s\n",
ctime(timep));
#endif
/****************************
 * BEGIN BLOCK OF COMMON CODE
 ****************************/
retry:
              /*              vgetdate(cr_date);  */
 OCIERROR(errhp,OCIDateSysDate(errhp,&cr_date));

 pctx->w_id_len = SIZ(w_id);
 pctx->d_id_len = SIZ(d_id);
 pctx->c_w_id_len = 0;
 pctx->c_d_id_len = 0;
 pctx->c_id_len = 0;
 pctx->h_amount_len = SIZ(h_amount);
 pctx->c_last_len = SIZ(c_last);
 pctx->w_street_1_len = 0;
 pctx->w_street_2_len = 0;
 pctx->w_city_len = 0;
 pctx->w_state_len = 0;
 pctx->w_zip_len = 0;
 pctx->d_street_1_len = 0;
 pctx->d_street_2_len = 0;
 pctx->d_city_len = 0;
 pctx->d_state_len = 0;
 pctx->d_zip_len = 0;
 pctx->c_first_len = 0;
 pctx->c_middle_len = 0;
 pctx->c_street_1_len = 0;
 pctx->c_street_2_len = 0;
 pctx->c_city_len = 0;
 pctx->c_state_len = 0;
 pctx->c_zip_len = 0;
 pctx->c_phone_len = 0;
 pctx->c_since_len = 0;
 pctx->c_credit_len = 0;
 pctx->c_credit_lim_len = 0;
 pctx->c_discount_len = 0;
 pctx->c_balance_len = sizeof(double);
 pctx->c_data_len = 0;
 pctx->h_date_len = 0;
 pctx->retries_len = SIZ(retries);
 pctx->cr_date_len = 7;

 if (c_id == 0) {
   bylastname = 1;
  execstatus=OCIStmtExecute(tpcsvc,pctx->curp1,errhp,1,0,
            NULLP(CONST OCISnapshot),NULLP(OCISnapshot),
            OCI_DEFAULT|OCI_COMMIT_ON_SUCCESS);
```

```
  } else {
    bylastname = 0;
   execstatus=OCIStmtExecute(tpcsvc,pctx->curp0,errhp,1,0,
            NULLP(CONST OCISnapshot),NULLP(OCISnapshot),
            OCI_DEFAULT|OCI_COMMIT_ON_SUCCESS);
  }

  if(execstatus != OCI_SUCCESS) {
    OCITransRollback(tpcsvc,errhp,OCI_DEFAULT);
    errcode = OCIERROR(errhp,execstatus);
    if(errcode == NOT_SERIALIZABLE) {
      retries++;
      goto retry;
    } else if (errcode == RECOVERR) {
      retries++;
      goto retry;
    } else if (errcode == SNAPSHOT_TOO_OLD) {
      retries++;
      goto retry;
    } else {
      userlog("%d] payment_tx: OCIERROR UNRECOVERABLE %d %d
w_id:%d d_id:%d c_id:%d  \n", getpid(), execstatus, errcode, w_id, d_id,
c_id );
      return -1;
    }
  }

/*
  cvtdmyhms(cr_date,h_date);
*/
      hlen=SIZ(h_date);
      OCIERROR(errhp,OCIDateToText(errhp,&cr_date,
            (text*)FULLDATE,strlen(FULLDATE),(text*)0,0,&hlen,h_date));

/*
  cvtdmy(c_since,c_since_d);
*/
      sincelen=SIZ(c_since_d);
      OCIERROR(errhp,OCIDateToText(errhp,&c_since,
        (text*)SHORTDATE,strlen(SHORTDATE),
(text*)0,0,&sincelen,c_since_d));

/***************************
 * END BLOCK OF COMMON CODE
 ***************************/

            MOVEBACK(c_id, payment_p);
            payment_p->c_credit_lim = ((double)c_credit_lim) / 100;
            payment_p->c_discount = ((double)c_discount) / 100;
            payment_p->c_balance = c_balance / 100; /* convert to dollars &
cents */
#if ACID
            time(timep);
            userlog("w_id %d, d_id %d, c_id %d, h_amount = %d, c_balance
= %f\n",
                        w_id, d_id, c_id, h_amount, c_balance);
            userlog("ACID PAYMENT Transaction completed at %s\n",
ctime(timep));
#endif
            strcpy(payment_p->c_since, (char *)c_since_d);
            MOVECBACK(h_date, 20, payment_p);
            MOVECBACK(w_street_1, 21, payment_p);
            MOVECBACK(w_street_2, 21, payment_p);
            MOVECBACK(w_city, 21, payment_p);
            MOVECBACK(w_state, 3, payment_p);
            MOVECBACK(w_zip, 11, payment_p);
            MOVECBACK(d_street_1, 21, payment_p);
            MOVECBACK(d_street_2, 21, payment_p);
            MOVECBACK(d_city, 21, payment_p);
            MOVECBACK(d_state, 3, payment_p);
            MOVECBACK(d_zip, 11, payment_p);
            MOVECBACK(c_first, 17, payment_p);
            MOVECBACK(c_middle, 3, payment_p);
            MOVECBACK(c_last, 17, payment_p);
            MOVECBACK(c_street_1, 21, payment_p);
            MOVECBACK(c_street_2, 21, payment_p);
            MOVECBACK(c_city, 21, payment_p);
            MOVECBACK(c_state, 3, payment_p);
            MOVECBACK(c_zip, 11, payment_p);
            MOVECBACK(c_phone, 17, payment_p);
            MOVECBACK(c_credit, 3, payment_p);
      strncpy(payment_p->c_data, c_data, 201);

            return(0);
}

int PAYM(TPSVCINFO *rqst)
{
      if (payment_tx(rqst) )
            tpreturn(TPFAIL, 0, rqst->data, sizeof(struct pay_inf), 0);
      else
            tpreturn(TPSUCCESS, 0, rqst->data, sizeof(struct pay_inf), 0);
}
```

tpcc_srv_stock.c

```
/*
 * Copyright (c) 1994 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)tpcso_srv_stock.c         1.6            95/04/12    SMI"

/
*=======================================================
============+
 |       Copyright (c) 1994  Oracle Corp, Redwood Shores, CA       |
 |                 OPEN SYSTEMS PERFORMANCE GROUP                |
 |                     All Rights Reserved                   |
 +=======================================================
=============+
 | FILENAME
 |    plsto.c
 | DESCRIPTION
 |    OCI version of STOCK LEVEL transaction in TPC-C benchmark.
 +=======================================================
=============*/
/* #include "ora_oci.h" */
#ifndef ORA_TPCC
# define ORA_TPCC
# include "tpcc.h"
#endif

#include <stdlib.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/msg.h>

/* Tuxedo */
#include "atmi.h"
#include "userlog.h"

static int tx_count = 0;

#define MOVETO(element, struct_name) element = struct_name -> element
#define MOVEBACK(element, struct_name) struct_name -> element =
element

/* List of fields in stock */
/* This structure should be EXACTLY identical to the one declared in
client.h */
/* List of fields in stock-level */

struct stock_inf {
int             w_id;
int d_id;
int threshold;
int low_stock;
};


#ifdef PLSQLSTO
#define SQLTXT "BEGIN stocklevel.getstocklevel (:w_id, :d_id,
:threshold, \
   :low_stock); END;"
#else
#define SQLTXT "SELECT /*+ nocache (stok) */ count (DISTINCT s_i_id) \
          FROM ordl, stok, dist \
          WHERE d_id = :d_id AND d_w_id = :w_id AND \
               d_id = ol_d_id AND d_w_id = ol_w_id AND \
               ol_i_id = s_i_id AND ol_w_id = s_w_id AND \
               s_quantity < :threshold AND \
               ol_o_id BETWEEN (d_next_o_id - 20) AND (d_next_o_id - 1) \
                         order by ol_o_id desc"
/* query using functional index */
/*
#define SQLTXT "SELECT count (DISTINCT s_i_id) \
          FROM ordl, stok, dist \
          WHERE d_id = :d_id AND d_w_id = :w_id AND \
               d_id = ol_d_id AND d_w_id = ol_w_id AND \
               ol_o_id BETWEEN (d_next_o_id - 20) AND (d_next_o_id - 1)
AND \
               decode(SIGN(s_quantity -21) , -1, s_w_id*100000 + s_i_id,
```

```
NULL) \
                                        = ol_w_id*100000 + ol_i_id  AND \
              s_quantity < :threshold;"

*/

#endif

struct stoctx {
  OCIStmt *curs;
  OCIBind *w_id_bp;
  OCIBind *d_id_bp;
  OCIBind *threshold_bp;
#ifdef PLSQLSTO
  OCIBind *low_stock_bp;
#else
  OCIDefine *low_stock_bp;
#endif
  int norow;
};

typedef struct stoctx stoctx;
static stoctx *sctx;

static int w_id;
static int d_id;
static int threshold;
static int low_stock;
static int retries;
static int retries_serial;
static int retries_recoverr;
static int retries_snapshot;
/*
 * Initialize transaction
 */
int get_stock_tx_cnt()
{
        return tx_count;
}


int init_stock_tx()
{

/***************************
 * BEGIN BLOCK OF COMMON CODE
 ***************************/

   text stmbuf[SQL_BUF_SIZE];
#ifdef MULTI_SVR
 /* For all servers - common routine to open/init  session etc. */
  TPCinit();
#endif
   sctx = (stoctx *)malloc(sizeof(stoctx));
   memset(sctx,(char)0,sizeof(stoctx));
   sctx->norow = 0;

   OCIERROR(errhp,
    OCIHandleAlloc(tpcenv,(dvoid**)&sctx->curs,OCI_HTYPE_STMT,0,
(dvoid**)0));
   sprintf ((char *) stmbuf, SQLTXT);
   OCIERROR(errhp,OCIStmtPrepare(sctx->curs,errhp,stmbuf,strlen((char
*)stmbuf),
                         OCI_NTV_SYNTAX,OCI_DEFAULT));
#ifndef PLSQLSTO
   OCIERROR(errhp,
     OCIAttrSet(sctx->curs,OCI_HTYPE_STMT,(dvoid*)&sctx->norow,0,
             OCI_ATTR_PREFETCH_ROWS,errhp));
#endif

   /* bind variables */

   OCIBND(sctx->curs,sctx->w_id_bp,errhp, ":w_id",
ADR(w_id),sizeof(int),
        SQLT_INT);
   OCIBND(sctx->curs,sctx->d_id_bp,errhp, ":d_id", ADR(d_id),sizeof(int),
     SQLT_INT);
   OCIBND(sctx->curs,sctx->threshold_bp,errhp, ":threshold",
ADR(threshold),
     sizeof(int),SQLT_INT);
#ifdef PLSQLSTO
   OCIBND(sctx->curs,sctx->low_stock_bp,errhp,":low_stock" ,
ADR(low_stock),
     sizeof(int), SQLT_INT);
#else
   OCIDEFINE(sctx->curs,sctx->low_stock_bp,errhp, 1, ADR(low_stock),
     sizeof(int), SQLT_INT);
#endif


                return(0);

/***************************
 * END BLOCK OF COMMON CODE
 ***************************/
}



/*
 * Function: do stocklevel transaction
 * Input is the stocklevel structure. Output is low_stock field
 */
int stocklevel_tx( TPSVCINFO *rqst )
{

  int err, execstatus,errcode;
  struct stock_inf *stocklevel_p;
  stocklevel_p = (struct stock_inf *)(rqst->data);

  MOVETO(w_id, stocklevel_p);
  MOVETO(d_id, stocklevel_p);
  MOVETO(threshold, stocklevel_p);
/***************************
 * BEGIN BLOCK OF COMMON CODE
 ***************************/

  tx_count++;
retry:
    execstatus= OCIStmtExecute(tpcsvc,sctx->curs,errhp,1,0,0,0,
                       OCI_COMMIT_ON_SUCCESS | OCI_DEFAULT);
    if (execstatus != OCI_SUCCESS)
    {
     errcode=OCIERROR(errhp,execstatus);
     OCITransCommit(tpcsvc,errhp,OCI_DEFAULT);
     if((errcode == NOT_SERIALIZABLE) || (errcode == RECOVERR)
        || (errcode == SNAPSHOT_TOO_OLD))
     {
       retries++;
               if (errcode == NOT_SERIALIZABLE)
                       retries_serial++;
               else if (errcode == RECOVERR)
                       retries_recoverr++;
               else
                       retries_snapshot++;
       goto retry;
     } else {
       userlog("%d] stocklevel_tx ERROR %s:%d - EXITING -1, execstatus=
%d, errcode=%d, w_id=%d, d_id=%d, threshold=%d\n",  getpid(),
__FILE__, __LINE__, execstatus, errcode,
               stocklevel_p->w_id, stocklevel_p->d_id, stocklevel_p-
>threshold);
       return -1;
     }
    }

/***************************
 * END BLOCK OF COMMON CODE
 ***************************/

               MOVEBACK(low_stock, stocklevel_p);
               return(0);
}


void cleanup_stock( int code)
{
  /* log off */
               if (sctx) free (sctx);

   exit(code);
}

int STOCK( TPSVCINFO *rqst)
{
       if(stocklevel_tx(rqst)) {
                       tpreturn(TPFAIL, 0, rqst->data, sizeof(struct
stock_inf), 0);
               } else {
                       tpreturn(TPSUCCESS, 0, rqst->data, sizeof(struct
stock_inf), 0);
               }
}
```

tpcc_srv_util.c

```
/*
```

```
 * Copyright (c) 1995 by Sun Microsystems, Inc.
 */

#pragma ident "@(#)tpcso_srv_util.c            1.17          97/01/02    SMI"

/
*=====================================================
============+
 |       Copyright (c) 1995  Oracle Corp, Redwood Shores, CA       |
 |                  OPEN SYSTEMS PERFORMANCE GROUP                 |
 |                      All Rights Reserved                        |
 +=====================================================
=============*/
/* Common utility functions used by all tpcso_srv* programs */

#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/file.h>

#include "ora_oci.h"
#include "ora_err.h"

FILE  *vopen(fnam,mode)
char  *fnam;
char  *mode;
{
FILE *fd;

#ifdef  DEBUG
  fprintf(stderr, "tkvuopen() fnam: %s,   mode: %s\n", fnam, mode);
#endif

    fd = fopen((char *)fnam,(char *)mode);
    if (!fd){
        fprintf(stderr," fopen on %s failed %d\n",fnam,fd);
        exit(-1);
    }
    return(fd);
}

/*
int sqlfile(fnam,linebuf)
char   *fnam;
text   *linebuf;
*/
int sqlfile (char  *fnam, text *linebuf)
{
FILE *fd;
int nulpt = 0;

#ifdef  DEBUG
  fprintf(stderr, "sqlfile() fnam: %s,  linebuf: %#x\n", fnam, linebuf);
#endif

    fd = vopen(fnam,"r");
    while (fgets((char *)linebuf+nulpt, SQL_BUF_SIZE,fd))
    {
        nulpt = strlen((char *)linebuf);
    }
    return(nulpt);
}


void vgetdate (unsigned char *oradt)
{
 struct tm *loctime;
 time_t  int_time;

 struct ORADATE {
 unsigned char           century;
 unsigned char           year;
 unsigned char           month;
 unsigned char           day;
 unsigned char           hour;
 unsigned char           minute;
 unsigned char           second;
 } Date;
int century;
int cnvrtOK;

/* assume convert is successful */
cnvrtOK = 1;

/* get the current date and time as an integer */
time( &int_time);

/* Convert the current date and time into local time */
loctime = localtime( &int_time);

century = (1900+loctime->tm_year) / 100;

Date.century = (unsigned char)(century + 100);
if (Date.century < 119 || Date.century > 120) cnvrtOK = 0;
Date.year  = (unsigned char)(loctime->tm_year+100);
if (Date.year < 100 || Date.year > 199) cnvrtOK = 0;
Date.month = (unsigned char)(loctime->tm_mon + 1);
if (Date.month < 1 || Date.month > 12) cnvrtOK = 0;
Date.day   = (unsigned char)loctime->tm_mday;
if (Date.day < 1 || Date.day > 31) cnvrtOK = 0;
Date.hour  = (unsigned char)(loctime->tm_hour + 1);
if (Date.hour < 1 || Date.hour > 24) cnvrtOK = 0;
Date.minute= (unsigned char)(loctime->tm_min + 1);
if (Date.minute < 1 || Date.minute > 60) cnvrtOK = 0;
Date.second= (unsigned char)(loctime->tm_sec + 1);
if (Date.second < 1 || Date.second > 60) cnvrtOK = 0;


if (cnvrtOK)
  memcpy(oradt,&Date,7);
  else
    *oradt = '\0';

 return;

}


void cvtdmy (unsigned char *oradt, char *outdate)
{

        struct ORADATE {
                unsigned char   century;
                unsigned char   year;
                unsigned char   month;
                unsigned char   day;
                unsigned char   hour;
                unsigned char   minute;
                unsigned char   second;
        } Date;


        int day,month,year;

        memcpy(&Date,oradt,7);

        year = (Date.century-100)*100 + Date.year-100;
        month = Date.month;
        day = Date.day;
        sprintf(outdate,"%02d-%02d-%4d",day,month,year);

        return;
}

void cvtdmyhms (unsigned char *oradt, char *outdate)
{

        struct ORADATE {
                unsigned char   century;
                unsigned char   year;
                unsigned char   month;
                unsigned char   day;
                unsigned char   hour;
                unsigned char   minute;
                unsigned char   second;
        } Date;


        int day,month,year;
        int hour,min,sec;

        memcpy(&Date,oradt,7);

        year = (Date.century-100)*100 + Date.year-100;
        month = Date.month;
        day = Date.day;
        hour = Date.hour - 1;
        min = Date.minute - 1;
        sec = Date.second - 1;

        sprintf(outdate,"%02d-%02d-%4d %02d:%02d:%02d",
                day,month,year,hour,min,sec);

        return;
```

```
}
```

ora_err.h

```
/*
 * Copyright (c) 1994 by Sun Microsystems, Inc.
 */

#ifndef ORA_ERR_H
#define ORA_ERR_H

#pragma ident "@(#)ora_err.h     1.4          95/09/14    SMI"
/*
 * this kludge is required because Oracle does not provide
 *             symbolic constants in a header file
 */

#define     EDEADLOK            60
#define     SQLNOTFOUND         1403
#define     COLUMN_NULL         -1405
#define     EDUPLICATE          -1
#define     RECOVERR            -10
#define     IRRECERR            -20
#define     NOERR               111
#define     DEL_ERROR           -666
#define     DEL_DATE_LEN        7
#define     SQL_BUF_SIZE        8192

#endif ORA_ERR_H
```

ora_oci.h

```
#pragma ident "@(#)oci.h          1.1          95/09/14    SMI"

/
*======================================================
============+
 |       Copyright (c) 1994  Oracle Corp, Redwood Shores, CA      |
 |                 OPEN SYSTEMS PERFORMANCE GROUP                 |
 |                     All Rights Reserved                        |
 +======================================================
=============+
 | FILENAME
 |    tpccpl.h
 | DESCRIPTION
 |    Header file for TPC-C transactions in PL/SQL.
 +======================================================
=============*/

#ifndef TPCCPL_H
#define TPCCPL_H

#include <stdio.h>
#include <ctype.h>
#include <string.h>

#include <oratypes.h>
#include <oci.h>
/****
#if __STDC__
#include <ociapr.h>
#else
#include <ocikpr.h>
#endif
*****/

typedef struct cda_def csrdef;
typedef struct cda_def ldadef;


#ifndef DISCARD
# define DISCARD (void)
#endif

#ifndef sword
# define sword int
#endif

#define VER7           2

#define NA             -1      /* ANSI SQL NULL */
#define NLT             1       /* length for string null terminator */
#define DEADLOCK        60      /* ORA-00060: deadlock */
#define NO_DATA_FOUND   1403    /* ORA-01403: no data found */
#define NOT_SERIALIZABLE  8177  /* ORA-08177: transaction not
serializable */
#define      SNAPSHOT_TOO_OLD 1555

#ifndef NULLP
# define NULLP (void *)NULL
#endif /* NULLP */

#define ADR(object) ((ub1 *)&(object))
#define SIZ(object) ((sword)sizeof(object))

typedef char date[24+NLT];
typedef char varchar2;

#define OCIERROR(errp,function)\
       ocierror(__FILE__,__LINE__,(errp),(function));

#define OCIBND(stmp, bndp, errp, sqlvar, progv, progvl, ftype)\
      ocierror(__FILE__,__LINE__,(errp), \
          OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__, (errp), \
          OCIBindByName((stmp), &(bndp), (errp), \
                                                 (text *)(sqlvar),
strlen((sqlvar)),\
                                                 (progv), (progvl),
(ftype),0,0,0,0,0,OCI_DEFAULT));

#define
OCIBNDRAD(stmp,bndp,errp,sqlvar,progvl,ftype,indp,ctxp,cbf_nodata,cbf_
data) \
      ocierror(__FILE__,__LINE__,(errp), \
         OCIBindByName((stmp),&(bndp),(errp),(text *)(sqlvar), \
                       strlen((sqlvar)),0,(progvl),(ftype), \
                       indp,0,0,0,0,OCI_DATA_AT_EXEC)); \
           ocierror("yufei",__LINE__,(errp), \
           OCIBindDynamic((bndp),(errp),(ctxp),(cbf_nodata),(ctxp),
(cbf_data)));


#define
OCIBNDRA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
      ocierror(__FILE__,__LINE__,(errp), \
         OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__,(errp), \
         OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
                                              (progv),(progvl),(ftype),
(indp),(alen),(arcode),0,0,OCI_DEFAULT));
/*      ocierror(__FILE__,__LINE__,(errp), \
          OCIBindArrayOfStruct((bndp),(errp),(progvl),sizeof((indp)[0]),\
                                  sizeof((alen)[0]),sizeof((arcode)[0]))); */

#define
OCIBNDR(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
      ocierror(__FILE__,__LINE__,(errp), \
        OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__,(errp), \
        OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
                                              (progv),(progvl),(ftype),
(indp),(alen),(arcode),0,0,OCI_DEFAULT));

#define
OCIBNDRAA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode,ms
,cu) \
      ocierror(__FILE__,__LINE__, (errp), \
        OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__,(errp),\
       OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
     (progv),(progvl),(ftype),(indp),(alen),(arcode),(ms),
(cu),OCI_DEFAULT));
/*      ocierror(__FILE__,__LINE__,(errp),
            OCIBindArrayOfStruct((bndp),(errp),(progvl),sizeof((indp)[0]),\
                                  sizeof((alen)[0]),sizeof((arcode)[0]))); */

#define OCIDEFINE(stmp,dfnp,errp,pos,progv,progvl,ftype)\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),(ftype),\
                               0,0,0,OCI_DEFAULT)

#define OCIDEF(stmp,dfnp,errp,pos,progv,progvl,ftype) \
      OCIHandleAlloc((stmp),(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                               (dvoid**)0);\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),\
                     (ftype),NULL,NULL,NULL,OCI_DEFAULT); \
```

```
#define OCIDFNRA(stmp,dfnp,errp,pos,progv,progvl,ftype,indp,alen,arcode)
\
      OCIHandleAlloc(tpcenv,(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                                                      (dvoid**)0);\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),\
                                                      (progvl),(ftype),(indp),
(alen),\
                                                      (arcode),OCI_DEFAULT);\

#define OBNDRV(lda,cursor,sqlvar,progv,progvl,ftype)\
   if (obndrv((cursor),(text*)(sqlvar),NA,(ub1*)(progv),(progvl),(ftype),NA,\
      (sb2 *)0, (text *)0, NA, NA))\
      {errrpt(lda,cursor,sqlvar);return(-1);}\
   else\
      DISCARD 0

#define OBNDRA(lda,cursor,sqlvar,progv,progvl,ftype,indp,alen,arcode)\
   if (obndra((cursor),(text*)(sqlvar),NA,(ub1*)(progv),(progvl),(ftype),NA,\
      (indp),(alen),(arcode),(ub4)0,(ub4*)0,(text*)0,NA,NA))\
      {errrpt(lda,cursor,sqlvar);return(-1);}\
   else\
      DISCARD 0

#define
OBNDRAA(lda,cursor,sqlvar,progv,progvl,ftype,indp,alen,arcode,ms,cs)\
   if (obndra((cursor),(text*)(sqlvar),NA,(ub1*)(progv),(progvl),(ftype),NA,\
      (indp),(alen),(arcode),(ub4)(ms),(ub4*)(cs),(text*)0,NA,NA))\
      {errrpt(lda,cursor,sqlvar);return(-1);}\
   else\
      DISCARD 0

#define
ODEFIN(lda,cursor,pos,buf,bufl,ftype,scale,indp,fmt,fmtl,fmtt,rlen,rcode)\
   if (odefin((cursor),(pos),(ub1*)(buf),(bufl),(ftype),(scale),(indp),\
      (text*)(fmt),(fmtl),(fmtt),(rlen),(rcode)))\
      {errrpt(lda,cursor,(text *)ftype);return(-1);}\
   else\
      DISCARD 0

#define OEXFET(lda,cursor,nrows,cancel,exact)\
   if (oexfet((cursor),(nrows),(cancel),(exact)))\
      {if ((cursor)->rc == 1403) DISCARD 0; \
       else if (errrpt(lda,cursor,(text *)"OEXFET")==RECOVERR) \
          {orol(lda);return(RECOVERR);} \
       else{orol(lda);return(-1);}}\
   else\
      DISCARD 0

#define OOPEN(lda,cursor)\
   if (oopen((cursor),(lda),(text*)0,NA,NA,(text*)0,NA))\
      {errrpt(lda,cursor,(text *)"OOPEN");return(-1);}\
   else\
      DISCARD 0

#define OPARSE(lda,cursor,sqlstm,sqll,defflg,lngflg)\
   if (oparse((cursor),(sqlstm),(sb4)(sqll),(defflg),(ub4)(lngflg)))\
      {errrpt(lda,cursor,sqlstm);return(-1);}\
   else\
      DISCARD 0

#define OFEN(lda,cursor,nrows)\
   if (ofen((cursor),(nrows)))\
      {if (errrpt(lda,cursor,(text *)"OFEN")==RECOVERR) \
         {orol(lda);return(RECOVERR);} \
       else{orol(lda);return(-1);}}\
   else\
      DISCARD 0

#define OEXEC(lda,cursor)\
   if (oexec((cursor)))\
      {if (errrpt(lda,cursor,(text *)"OEXEC")==RECOVERR) \
         {orol(lda);return(RECOVERR);} \
       else{orol(lda);return(-1);}}\
   else\
      DISCARD 0


#define OCOM(lda,cursor)\
   if (ocom((lda))) \
      {errrpt(lda,cursor,(text *)"OCOM");orol(lda);return(-1);}\
   else\
      DISCARD 0


#define OEXN(lda,cursor,iters,rowoff)\
   if (oexn((cursor),(iters),(rowoff))) \
      {if (errrpt(lda,cursor,(text *)"OEXN")==RECOVERR) \
         {orol(lda);return(RECOVERR);} \
       else{orol(lda);return(-1);}}\
   else\
      DISCARD 0

#endif

/* additions done for 814 -shishir */
#define OCI_ATTR_SRVRCTXT              OCI_ATTR_SERVER
#define OCI_ATTR_USERCTXT              OCI_ATTR_SESSION
#define OCI_ATTR_ROWCNT   OCI_ATTR_ROW_COUNT
#define OCI_HTYPE_ERR                  OCI_HTYPE_ERROR
#define OCI_HTYPE_STM                  OCI_HTYPE_STMT
```

tpcc.h

```
/* * $Header: tpcc.h 7030100.1 95/07/19 15:10:55 plai Generic $ Copyr (c)
1993 Oracle */
/*=========================================================
============+ | Copyright (c) 1995 Oracle Corp, Redwood Shores, CA |
| OPEN SYSTEMS PERFORMANCE GROUP | | All Rights Reserved |
+=========================================================
============+ | FILENAME | tpcc.h | DESCRIPTION | Include file for
TPC-C benchmark programs.
+=========================================================
============*/ #ifndef TPCC_H #define TPCC_H #ifndef FALSE #
define FALSE 0 #endif #ifndef TRUE # define TRUE 1 #endif #include
#include  #include  #include  #ifndef boolean #define boolean int #endif
#include  #include  #include  /* #ifdef __STDC__ #include "ociapr.h" #else
#include "ocikpr.h" #endif */ typedef struct cda_def csrdef; typedef struct
cda_def ldadef; /* TPC-C transaction functions */ #ifndef TUXEDO extern
int TPCinit (); extern int TPCnew (); extern int TPCpay (); extern int TPCord
(); extern int TPCdel (); extern int TPCsto (); extern void TPCexit (); extern
int TPCdumpinit (); extern void TPCdumpnew (); extern void TPCdumppay
(); extern void TPCdumpord (); extern void TPCdumpdel (); extern void
TPCdumpsto (); extern void TPCdumpexit (); /* extern void userlog(char*
fmtp, ...); */ #endif /* Error codes */ #define RECOVERR -10 #define
IRRECERR -20 #define NOERR 111 #define DEL_ERROR -666 #define
DEL_DATE_LEN 77 #define NDISTS 10 #define NITEMS 15 #define
SQL_BUF_SIZE 8192 #define FULLDATE "dd-mon-yy.hh24:mi:ss" #define
SHORTDATE "dd-mm-yyyy" #define DELRT 80.0 #ifndef TUX extern int
tkvcninit (); extern int tkvcpinit (); extern int tkvcoinit (); extern int tkvcdinit
(); extern int tkvcsinit (); extern int tkvcn (); extern int tkvcp (); extern int
tkvco (); extern int tkvcd (); extern int tkvcs (); extern void tkvcndone ();
extern void tkvcpdone (); extern void tkvcodone (); extern void tkvcddone ();
extern void tkvcsdone (); extern int tkvcss (); /* for alter session to get
memory size and trace */ extern boolean multitranx; extern int ord_init;
#endif extern void errrpt (); extern int ocierror(char *fname, int
lineno,OCIError *errhp, sword status); extern int sqlfile(char *fname, text
*linebuf); extern FILE *lfp; extern FILE *fopen (); extern int proc_no; extern
int doid[]; extern int execstatus; extern int errcode; #ifndef TUX extern
OCIEnv *tpcenv; extern OCIServer *tpcsrv; extern OCIError *errhp; extern
OCISvcCtx *tpcsvc; extern OCISession *tpcusr; extern OCIStmt *curntest;
#endif /* The bind and define handles for each transaction are included in
their respective header files. */ extern OCIEnv *tpcenv; extern OCIServer
*tpcsrv; extern OCIError *errhp; extern OCISvcCtx *tpcsvc; extern
OCISession *tpcusr; extern OCIStmt *curi; extern char *uid; extern char
*pwd; /* for stock-level transaction */ extern int w_id; extern int d_id; extern
int c_id; extern int threshold; extern int low_stock; /* for delivery transaction
*/ extern int del_o_id[10]; extern int carrier_id; extern double qtime; extern
int retries; extern int retries_serial; extern int retries_recoverr; extern int
retries_snapshot; /* for order-status transaction */ extern int bylastname;
extern char c_last[17]; extern char c_first[17]; extern char c_middle[3];
extern double c_balance; extern int o_id; extern text o_entry_d[20]; extern int
o_carrier_id; extern int o_ol_cnt; extern int ol_supply_w_id[15]; extern int
ol_i_id[15]; extern int ol_quantity[15]; extern int ol_amount[15]; ub4
ol_del_len[15]; extern text ol_delivery_d[15][11]; /* xnie - begin */ extern
OCIRowid *o_rowid; /* xnie - end */ /* for payment transaction */ extern int
c_w_id; extern int c_d_id; extern int h_amount; extern char w_street_1[21];
extern char w_street_2[21]; extern char w_city[21]; extern char w_state[3];
extern char w_zip[10]; extern char d_street_1[21]; extern char
d_street_2[21]; extern char d_city[21]; extern char d_state[3]; extern char
d_zip[10]; extern char c_street_1[21]; extern char c_street_2[21]; extern char
c_city[21]; extern char c_state[3]; extern char c_zip[10]; extern char
c_phone[17]; extern text c_since_d[11]; extern char c_credit[3]; extern int
c_credit_lim; extern float c_discount; extern char c_data[201]; extern text
h_date[20]; /* for new order transaction */ #ifndef TUX extern int
nol_i_id[15]; extern int nol_supply_w_id[15]; extern int nol_quantity[15];
extern int nol_quanti10[15]; extern int nol_quanti91[15]; extern int
nol_ytdqty[15]; extern int nol_amount[15]; extern int o_all_local; extern float
w_tax; extern float d_tax; extern float total_amount; extern char i_name[15]
[25]; extern int i_name_strlen[15]; extern ub2 i_name_strlen_len[15]; extern
ub2 i_name_strlen_rcode[15]; extern ub4 i_name_strlen_csize; extern int
s_quantity[15]; #if 0 extern char brand_gen[15]; #endif extern ub2
brand_gen_len[15]; extern ub2 brand_gen_rcode[15]; extern ub4
brand_gen_csize; extern int i_price[15]; extern char brand_generic[15][1];
extern int status; extern int tracelevel; /* Miscellaneous */ extern OCIDate
cr_date; extern OCIDate c_since; extern OCIDate o_entry_d_base; extern
```

```
OCIDate ol_d_base[15]; #endif #ifndef DISCARD # define DISCARD
(void) #endif #ifndef sword # define sword int #endif #define VER7 2
#define NA -1 /* ANSI SQL NULL */ #define NLT 1 /* length for string null
terminator */ #define DEADLOCK 60 /* ORA-00060: deadlock */ #define
NO_DATA_FOUND 1403 /* ORA-01403: no data found */ #define
NOT_SERIALIZABLE 8177 /* ORA-08177: transaction not serializable */
#define SNAPSHOT_TOO_OLD 1555 /* ORA-01555: snapshot too old */
#ifndef NULLP # define NULLP(x) (x *)NULL #endif /* NULLP */ #define
ADR(object) ((ub1 *)&(object)) #define SIZ(object) ((sword)sizeof(object))
typedef char date[24+NLT]; typedef char varchar2; #define min(x,y) (((x) <
(y)) ? (x) : (y)) #define OCIERROR(errp,function)\
ocierror(__FILE__,__LINE__,(errp),(function)); #define OCIBND(stmp,
bndp, errp, sqlvar, progv, progvl, ftype)\ ocierror(__FILE__,__LINE__,
(errp), \ OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \ ocierror(__FILE__,__LINE__, (errp), \
OCIBindByName((stmp), &(bndp), (errp), \ (text *)(sqlvar), strlen((sqlvar)),\
(progv), (progvl), (ftype),0,0,0,0,0,OCI_DEFAULT)); /* bind arrays for sql */
#define
OCIBNDRA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
DISCARD ocierror(__FILE__,__LINE__,(errp), \ OCIHandleAlloc((stmp),
(dvoid**)&(bndp),OCI_HTYPE_BIND,0,(dvoid**)0)); \ DISCARD
ocierror(__FILE__,__LINE__,(errp), \ OCIBindByName((stmp),&(bndp),
(errp),(text *)(sqlvar),strlen((sqlvar)),\ (progv),(progvl),(ftype),(indp),(alen),
(arcode),0,0,OCI_DEFAULT)); /* use with callback data */ #define
OCIBNDRAD(stmp,bndp,errp,sqlvar,progvl,ftype,indp,ctxp,\
cbf_nodata,cbf_data) \ DISCARD ocierror(__FILE__,__LINE__,(errp), \
OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \ DISCARD ocierror(__FILE__,__LINE__,(errp), \
OCIBindByName((stmp),&(bndp),(errp),(text *)(sqlvar), \ strlen((sqlvar)),0,
(progvl),(ftype), \ indp,0,0,0,0,OCI_DATA_AT_EXEC)); \ DISCARD
ocierror(__FILE__,__LINE__,(errp), \ OCIBindDynamic((bndp),(errp),
(ctxp),(cbf_nodata),(ctxp),(cbf_data))); /* bind in/out for plsql without
indicator and rcode */ #define
OCIBNDPL(stmp,bndp,errp,sqlvar,progv,progvl,ftype,alen) \ DISCARD
ocierror(__FILE__,__LINE__,(errp), \ OCIHandleAlloc((stmp),
(dvoid**)&(bndp),OCI_HTYPE_BIND,0,(dvoid**)0)); \ DISCARD
ocierror(__FILE__,__LINE__,(errp), \ OCIBindByName((stmp),&(bndp),
(errp),(CONST text *)(sqlvar), \ (sb4)strlen((CONST char *)(sqlvar)),
(dvoid*)(progv),(progvl),(ftype),\ NULLP(dvoid),(alen), NULLP(ub2),
0,NULLP(ub4),OCI_DEFAULT)); /* bind in values for plsql with indicator
and rcode */ #define
OCIBNDR(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
DISCARD ocierror(__FILE__,__LINE__,(errp), \ OCIHandleAlloc((stmp),
(dvoid**)&(bndp),OCI_HTYPE_BIND,0,(dvoid**)0)); \ DISCARD
ocierror(__FILE__,__LINE__,(errp), \ OCIBindByName((stmp),&(bndp),
(errp),(text *)(sqlvar),strlen((sqlvar)),\ (progv),(progvl),(ftype),(indp),(alen),
(arcode),0,0, \ OCI_DEFAULT)); /* bind in/out for plsql arrays witout
indicator and rcode */ #define
OCIBNDPLA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,alen,ms,cu) \
DISCARD ocierror(__FILE__,__LINE__, (errp), \ OCIHandleAlloc((stmp),
(dvoid**)&(bndp),OCI_HTYPE_BIND,0,(dvoid**)0));\ DISCARD
ocierror(__FILE__,__LINE__,(errp),\ OCIBindByName((stmp),&(bndp),
(errp),(CONST text *)(sqlvar), \ (sb4)strlen((CONST char *) (sqlvar)),(void
*)(progv), \ (progvl),(ftype),NULL,(alen),NULL,(ms),
(cu),OCI_DEFAULT)); /* bind in/out values for plsql with indicator and
rcode */ #define
OCIBNDRAA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode,\
ms,cu) \ ocierror(__FILE__,__LINE__, (errp), \ OCIHandleAlloc((stmp),
(dvoid**)&(bndp),OCI_HTYPE_BIND,0,(dvoid**)0));\
ocierror(__FILE__,__LINE__,(errp),\ OCIBindByName((stmp),&(bndp),
(errp),(text *)(sqlvar),strlen((sqlvar)),\ (progv),(progvl),(ftype),(indp),(alen),
(arcode),(ms),(cu),OCI_DEFAULT)); #define
OCIDEFINE(stmp,dfnp,errp,pos,progv,progvl,ftype)\
OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),(ftype),\
0,0,0,OCI_DEFAULT); #define
OCIDEF(stmp,dfnp,errp,pos,progv,progvl,ftype) \ OCIHandleAlloc((stmp),
(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\ (dvoid**)0);\
OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),\
(ftype),NULL,NULL,NULL,OCI_DEFAULT); \ #define
OCIDFNRA(stmp,dfnp,errp,pos,progv,progvl,ftype,indp,alen,arcode) \
OCIHandleAlloc((stmp),(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
(dvoid**)0);\ OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),\
(progvl),(ftype),(indp),(alen),\ (arcode),OCI_DEFAULT); #define
OCIDFNDYN(stmp,dfnp,errp,pos,progv,progvl,ftype,indp,ctxp,cbf_data) \
ocierror(__FILE__,__LINE__,(errp), \ OCIHandleAlloc((stmp),
(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\ (dvoid**)0));\
ocierror(__FILE__,__LINE__,(errp), \ OCIDefineByPos((stmp),&(dfnp),
(errp),(pos),(progv), (progvl),(ftype),\ (indp),NULL,NULL,
OCI_DYNAMIC_FETCH));\ ocierror(__FILE__,__LINE__,(errp), \
OCIDefineDynamic((dfnp),(errp),(ctxp),(cbf_data))); /* New order */ struct
newinstruct { int w_id; int d_id; int c_id; int ol_i_id[15]; int
ol_supply_w_id[15]; int ol_quantity[15]; }; struct newoutstruct { int terror;
int o_id; int o_ol_cnt; char c_last[17]; char c_credit[3]; float c_discount; float
w_tax; float d_tax; char o_entry_d[20]; float total_amount; char i_name[15]
[25]; int s_quantity[15]; char brand_generic[15]; float i_price[15]; float
ol_amount[15]; char status[26]; int retry; }; struct newstruct { struct
newinstruct newin; struct newoutstruct newout; }; /* Payment */ struct
payinstruct { int w_id; int d_id; int c_w_id; int c_d_id; int c_id; int
bylastname; int h_amount; char c_last[17]; }; struct payoutstruct { int terror;
char w_street_1[21]; char w_street_2[21]; char w_city[21]; char w_state[3];
char w_zip[10]; char d_street_1[21]; char d_street_2[21]; char d_city[21];
char d_state[3]; char d_zip[10]; int c_id; char c_first[17]; char c_middle[3];
char c_last[17]; char c_street_1[21]; char c_street_2[21]; char c_city[21];
char c_state[3]; char c_zip[10]; char c_phone[17]; char c_since[11]; char
c_credit[3]; double c_credit_lim; float c_discount; double c_balance; char
c_data[201]; char h_date[20]; int retry; }; struct paystruct { struct payinstruct
payin; struct payoutstruct payout; }; /* Order status */ struct ordinstruct { int
w_id; int d_id; int c_id; int bylastname; char c_last[17]; }; struct ordoutstruct
{ int terror; int c_id; char c_last[17]; char c_first[17]; char c_middle[3];
double c_balance; int o_id; char o_entry_d[20]; int o_carrier_id; int o_ol_cnt;
int ol_supply_w_id[15]; int ol_i_id[15]; int ol_quantity[15]; float
ol_amount[15]; char ol_delivery_d[15][11]; int retry; }; struct ordstruct
{ struct ordinstruct ordin; struct ordoutstruct ordout; }; /* Delivery */ struct
delinstruct { int w_id; int o_carrier_id; double qtime; int in_timing_int; int
plsqlflag; }; struct deloutstruct { int terror; int retry; }; struct delstruct { struct
delinstruct delin; struct deloutstruct delout; }; /* Stock level */ struct
stoinstruct { int w_id; int d_id; int threshold; }; struct stooutstruct { int terror;
int low_stock; int retry; }; struct stostruct { struct stoinstruct stoin; struct
stooutstruct stoout; }; /* Structure of a message request passed on the msg-
queue */ struct msgh_req { long type; /* Type of message */ struct { int
len; /* Length of message */ int client_id; /* Id of client sending this msg */
int result_qid; /* Result of xact goes on this queue */ union { struct newstruct
msgh_newo; struct paystruct msgh_paym; struct ordstruct msgh_ords; struct
delstruct msgh_del; struct stostruct msgh_stock; } msgh_un; } msgh_msg; };
extern struct msgh_req message; #define header message.msgh_msg #define
neworder message.msgh_msg.msgh_un.msgh_newo #define payment
message.msgh_msg.msgh_un.msgh_paym #define ordstat
message.msgh_msg.msgh_un.msgh_ords #define delivery
message.msgh_msg.msgh_un.msgh_del #define stocklevel
message.msgh_msg.msgh_un.msgh_stock extern char blank_mesg[]; /*
Message keys for servers */ #define NEWO_MSGKEY 10000 #define
PAYM_MSGKEY 20000 #define ORDS_MSGKEY 30000 #define
STOCK_MSGKEY 40000 #define DEL_MSGKEY 50000 #define
MAX_USERS 200 /* Max. number of drivers */ #endif
```

Appendix B – Database Design

addfile.sh

```
#!/bin/sh
# $1 = tablespace name
# $2 = filename
# $3 = size
# $4 = temporary ts (1) or not (0)
# global variable $tpcc_listfiles, does not execute sql

if expr x$tpcc_listfiles = xt > /dev/null; then
  echo $2 $3 >> $tpcc_bench/files.dat
  exit 0
fi

if expr $4 = 1 > /dev/null; then
  altersql="alter tablespace $1 add tempfile '$2' size $3 reuse;"
else
  altersql="alter tablespace $1 add datafile '$2' size $3 reuse autoextend on;"
fi

$tpcc_sqlplus $tpcc_user_pass <<!
   spool addfile_$1.log
   set echo on
  $altersql
   set echo off
   spool off
   exit ;
!
```

addts.sh

```
#!/bin/sh
# $1 = tablespace name
# $2 = filename
# $3 = size
# $4 = uniform size
# $5 = block size
# $6 = temporary ts (1) or not (0)
# $7 = bitmapped manage (t) or not (f) or (d) for dictionary
# global variable $tpcc_listfiles, does not execute sql

if expr x$tpcc_listfiles = xt > /dev/null; then
  echo $2 $3 >> $tpcc_bench/files.dat
  exit 0
fi

if expr $5 = auto > /dev/null; then
  bssql=
else
  bssql="blocksize $5"
fi

if expr $6 = 1 > /dev/null; then
#  createsql="create temporary tablespace $1 tempfile '$2' size $3 reuse extent management local uniform size $4;"
  createsql="create temporary tablespace $1 tempfile '$2' size $3 reuse AUTOEXTEND ON extent management local uniform size $4;"
else
  if expr x$7 = xt > /dev/null; then
#    createsql="create tablespace $1 datafile '$2' size $3 reuse extent management local uniform size $4 segment space management auto $bssql nologging ;"
    createsql="create tablespace $1 datafile '$2' size $3 reuse AUTOEXTEND ON extent management local uniform size $4 segment space management auto $bssql nologging ;"
  else
    if expr x$7 = xd > /dev/null; then
#      createsql="create tablespace $1 datafile '$2' size $3 reuse extent management dictionary nologging $bssql;"
      createsql="create tablespace $1 datafile '$2' size $3 reuse AUTOEXTEND ON extent management dictionary nologging $bssql;"
    else
#      createsql="create tablespace $1 datafile '$2' size $3 reuse extent management local uniform size $4 segment space management manual $bssql nologging ;"
      createsql="create tablespace $1 datafile '$2' size $3 reuse AUTOEXTEND ON extent management local uniform size $4 segment space management manual $bssql nologging ;"
    fi
  fi
fi

$tpcc_sqlplus $tpcc_user_pass <<!
   spool createts_$1.log
   set echo on
   drop tablespace $1 including contents;
 $createsql
   set echo off
   spool off
   exit ;
!
```

analyze.sh

```
#!/bin/sh

if test "x$tpcc_set_table_stats" = "x0" ; then
  $tpcc_sqlplus $tpcc_user_pass @${tpcc_sql_dir}/analyze > $tpcc_log_dir/junk 2>&1
elif test "x$tpcc_set_table_stats" = "x1" ; then
  $tpcc_sqlplus $tpcc_user_pass @${tpcc_genscripts_dir}/analyze > $tpcc_log_dir/junk 2>&1
fi

if test $? -ne 0
then
  exit 1;
else
  exit 0;
fi
```

analyze.sql

```
spool analyze.log;
set echo on;

connect tpcc/tpcc

execute dbms_stats.GATHER_TABLE_STATS (OWNNAME=>'TPCC', -
                    TABNAME=>'STOK', -
                    PARTNAME=>NULL, -
                    ESTIMATE_PERCENT=>1, -
                    BLOCK_SAMPLE=>TRUE, -
                    METHOD_OPT=>'FOR ALL COLUMNS SIZE 1', -
                    DEGREE=>10, -
                    GRANULARITY=>'GLOBAL', -
                    CASCADE=>TRUE);

execute dbms_stats.GATHER_TABLE_STATS (OWNNAME=>'TPCC', -
                    TABNAME=>'CUST', -
                    PARTNAME=>NULL, -
                    ESTIMATE_PERCENT=>1, -
                    BLOCK_SAMPLE=>TRUE, -
                    METHOD_OPT=>'FOR ALL COLUMNS SIZE 1', -
                    DEGREE=>10, -
                    GRANULARITY=>'GLOBAL', -
                    CASCADE=>TRUE);

execute dbms_stats.GATHER_TABLE_STATS (OWNNAME=>'TPCC', -
                    TABNAME=>'ORDR', -
                    PARTNAME=>NULL, -
                    ESTIMATE_PERCENT=>1, -
                    BLOCK_SAMPLE=>TRUE, -
                    METHOD_OPT=>'FOR ALL COLUMNS SIZE 1', -
                    DEGREE=>10, -
                    GRANULARITY=>'GLOBAL', -
                    CASCADE=>TRUE);

execute dbms_stats.GATHER_TABLE_STATS (OWNNAME=>'TPCC', -
                    TABNAME=>'ORDL', -
                    PARTNAME=>NULL, -
                    ESTIMATE_PERCENT=>1, -
                    BLOCK_SAMPLE=>TRUE, -
                    METHOD_OPT=>'FOR ALL COLUMNS SIZE 1', -
                    DEGREE=>10, -
                    GRANULARITY=>'GLOBAL', -
                    CASCADE=>TRUE);

execute dbms_stats.GATHER_TABLE_STATS (OWNNAME=>'TPCC', -
                    TABNAME=>'NORD', -
                    PARTNAME=>NULL, -
                    ESTIMATE_PERCENT=>1, -
                    BLOCK_SAMPLE=>TRUE, -
                    METHOD_OPT=>'FOR ALL COLUMNS SIZE 1', -
                    DEGREE=>10, -
                    GRANULARITY=>'GLOBAL', -
                    CASCADE=>TRUE);

execute dbms_stats.GATHER_TABLE_STATS(OWNNAME=>'TPCC', -
                    TABNAME=>'HIST', -
                    PARTNAME=>NULL, -
                    ESTIMATE_PERCENT=>1, -
                    BLOCK_SAMPLE=>TRUE, -
                    METHOD_OPT=>'FOR ALL COLUMNS SIZE 1', -
```

```
                    DEGREE=>10, -
                    GRANULARITY=>'GLOBAL', -
                    CASCADE=>TRUE);

execute dbms_stats.GATHER_TABLE_STATS(OWNNAME=>'TPCC', -
                    TABNAME=>'DIST', -
                    PARTNAME=>NULL, -
                    ESTIMATE_PERCENT=>1, -
                    BLOCK_SAMPLE=>TRUE, -
                    METHOD_OPT=>'FOR ALL COLUMNS SIZE 1', -
                    DEGREE=>10, -
                    GRANULARITY=>'GLOBAL', -
                    CASCADE=>TRUE);

execute dbms_stats.GATHER_TABLE_STATS(OWNNAME=>'TPCC', -
                    TABNAME=>'ITEM', -
                    PARTNAME=>NULL, -
                    ESTIMATE_PERCENT=>10, -
                    BLOCK_SAMPLE=>TRUE, -
                    METHOD_OPT=>'FOR ALL COLUMNS SIZE 1', -
                    DEGREE=>1, -
                    GRANULARITY=>'GLOBAL', -
                    CASCADE=>TRUE);

execute dbms_stats.GATHER_TABLE_STATS(OWNNAME=>'TPCC', -
                    TABNAME=>'WARE', -
                    PARTNAME=>NULL, -
                    ESTIMATE_PERCENT=>10, -
                    BLOCK_SAMPLE=>TRUE, -
                    METHOD_OPT=>'FOR ALL COLUMNS SIZE 1', -
                    DEGREE=>10, -
                    GRANULARITY=>'GLOBAL', -
                    CASCADE=>TRUE);




set echo off;
spool off;

exit sql.sqlcode;
```

assigntemp.sh

```
#!/bin/sh

echo Assigning temporary tablespace to user tpcc...
$tpcc_sqlplus $tpcc_dba_user_pass @$tpcc_sql_dir/assigntemp > junk 2>&1
if test $? -ne 0
then
  exit 1;
else
  exit 0;
fi
```

createts.sh

```
#!/bin/sh
#NOTE - ANY CHANGES MUST BE MADE TO CREATETS.KSH AS
WELL.
# createts.sh [name] [no. of file] [no. of partition] [filesize] [ext_size]
#             [unix/nt] [1: temporary ts / 0: others] [filecount] [no of cpu]
#                      [blocksize] [t: bitmapped / f: manual manage / d: dictionary ]

name=$1
fileno=$2
noofts=$3
filesize=$4
extsize=$5
ver=$6
isTemp=$7
filecount=$8
para=`expr $9 \* 2`
#blocksize=${10}  sh bug workaround
blocksize=`echo $@ | cut -d' ' -f10`
#autospace=${11} sh bug workaround
autospace=`echo $@ | cut -d' ' -f11`

addts=$tpcc_scripts/addts.sh
addfile=$tpcc_scripts/addfile.sh

if expr "x$tpcc_createts_print" = "xt" > /dev/null ; then
  createtsout=${tpcc_genscripts_dir}/createts_node${tpcc_rac_node}.sh
  fileavg=`expr $fileno / $tpcc_np`

  if test $noofts -gt 1 ; then
    avg_ts_node=`expr $noofts / $tpcc_np`
    if test "x$tpcc_rac_createts_phase" = "x1" ; then
       fileavg=$avg_ts_node
    else
      if test "x$tpcc_rac_createts_phase" = "x2" ; then
       fileavg=`expr $fileavg - $avg_ts_node`
      fi
    fi
  fi

  fileend=`expr $fileavg \* $tpcc_rac_node`
  filestart=`expr $fileend - $fileavg`
  if expr $tpcc_rac_node = $tpcc_np > /dev/null; then
    fileend=$fileno
  fi
fi

#if test $ver = unix;
#then
  fileaddr="$tpcc_disks_location/";
#elif test $ver = nt;
#then
#  fileaddr=\\\\.\\
#fi

filecounter=0
i=0
while test $i -lt $noofts; do

  filecount=`expr $filecount + 1`;
  if expr "x$tpcc_createts_print" = "xt" > /dev/null ; then
    if test "x$tpcc_rac_createts_phase" = "x1" ; then
      if test "x$name" = "xitem" -o "x$name" = "xiitem" -o "x$name" =
"xtemp" -o "x$name" = "xrestbl" ; then
        if test $tpcc_rac_node = 1 ; then
#           echo "ADDTS 1" >> $createtsout
          echo $addts $name\_$i $fileaddr$name\_$i\_0 $filesize $extsize
$blocksize $isTemp $autospace \& >> $createtsout
          rac_count=`expr $rac_count + 1`
          if test "$rac_count" = "$para" ; then
            rac_count=0
            echo wait >> $createtsout
          fi
        fi
      else
#         echo "NOOFTS=$noofts, RAC_COUNT=$rac_count,
PHASE=$tpcc_rac_createts_phase, NAME=$name,
COUNTER=$filecounter, START=$filestart, END=$fileend" >> $createtsout
        if test $filecounter -ge $filestart -a $filecounter -lt $fileend ; then
#           echo "ADDTS 2" >> $createtsout
          echo $addts $name\_$i $fileaddr$name\_$i\_0 $filesize $extsize
$blocksize $isTemp $autospace \& >> $createtsout
          rac_count=`expr $rac_count + 1`
          if test "$rac_count" = "$para" ; then
            rac_count=0
            echo wait >> $createtsout
          fi
        fi
      fi
    fi
  else
    $addts $name\_$i $fileaddr$name\_$i\_0 $filesize $extsize $blocksize
$isTemp $autospace \> junk$filecount 2\>\&1 \&;
#    echo "ADDTS 3" >> $createtsout
  fi
  eval "proc$filecount=$!"
  filecounter=`expr $filecounter + 1`

  p=`expr $filecount % $para`;
  if test $p = 0;
  then
    k=`expr $filecount - $para + 1`;
    if test $k -le $8;
    then
      k=`expr $8 + 1`;
    fi
    while test $k -le $filecount ; do
#       wait `eval echo '$proc'$k`
      wait
      eval "proc$k=$?"
      k=`expr $k + 1`;
    done
  fi

  i=`expr $i + 1`;

done

p=`expr $filecount % $para`
if test $p != 0;
```

```
then
 k=`expr $filecount - $p + 1`;
 if test $k -le $8;
 then
  k=`expr $8 + 1`;
 fi
 while test $k -le $filecount; do
#    wait `eval echo '$proc'$k`
  wait
  eval "proc$k=$?"
  k=`expr $k + 1`
 done
fi

if test "x$tpcc_createts_print" = "xt" -a "x$tpcc_rac_createts_phase" = "x1" ;
then
 echo $rac_count
 exit 0
fi

if test "x$tpcc_createts_print" = "xt" -a $noofts -gt 1 -a
"x$tpcc_rac_createts_phase" = "x2" ; then
 filecounter=0
fi

filecount=0
fileperts=`expr $fileno / $noofts - 1`
if test $fileperts -gt 0 ;
then
 i=0
 while test $i -lt $noofts ; do
  j=0;
  while test $j -lt $fileperts ;do

   filecount=`expr $filecount + 1`;
   if expr "x$tpcc_createts_print" = "xt" > /dev/null ; then
    if test "x$tpcc_rac_createts_phase" = "x2" ; then
     if test "x$name" = "xitem" -o "x$name" = "xtemp" -o "x$name" =
"xrestbl" ; then
      if test $tpcc_rac_node = 1 ; then
       echo $addfile $name\_$i $fileaddr$name\_$i\_`expr $j + 1` $filesize
$isTemp \& >> $createtsout
       rac_count=`expr $rac_count + 1`
       if test "$rac_count" = "$para" ; then
        rac_count=0
        echo wait >> $createtsout
       fi
      fi
     else
      if test $filecounter -ge $filestart -a $filecounter -lt $fileend ; then
#        parttbs="`tp $name parttbs`"
       parttbs="$tpcc_${name}_parttbs"
       echo "NAME=$name, PARTTBS=$parttbs"
       if test -z "$parttbs" -o "$parttbs"x != "tx" ; then
        echo $addfile $name\_$i $fileaddr$name\_$i\_`expr $j + 1`
$filesize $isTemp \& >> $createtsout
        rac_count=`expr $rac_count + 1`
        if test "$rac_count" = "$para" ; then
         rac_count=0
         echo wait >> $createtsout
        fi
       fi
      fi
     fi
    fi
   else
    $addfile $name\_$i $fileaddr$name\_$i\_`expr $j + 1` $filesize $isTemp
\> junk$filecount 2\>\&1 &
#      echo "ADDFILE 3" >> $junk$filecount
   fi
   eval "proc$filecount=$!"

   filecounter=`expr $filecounter + 1`

   p=`expr $filecount % $para`;
   if test $p = 0;
   then
    wait
#     k=`expr $filecount - $para + 1`;
#     if test $k -le $8;
#     then
#      k=`expr $8 + 1`;
#     fi
#    while test $k -le $filecount ; do
#      wait
#      eval "proc$k=$?"
#      k=`expr $k + 1`;
#     done
   fi

   j=`expr $j + 1`
  done

  i=`expr $i + 1`
 done

 p=`expr $filecount % $para`
 if test $p != 0;
 then
  k=`expr $filecount - $p + 1`;
  if test $k -le $8;
  then
   k=`expr $8 + 1`;
  fi
  while test $k -le $filecount; do
#    wait `eval echo '$proc'$k`
   wait
   eval "proc$k=$?"
   k=`expr $k + 1`
  done
 fi
fi

if test "x$tpcc_createts_print" = "xt" ; then
 echo $rac_count
fi

exit 0

i=`expr $8 + 1`
proc=0
while test $i -le $filecount ;do
 eval 'process=$proc'"$i"
 proc=`expr $proc + $process`
 i=`expr $i + 1`
done

out=`expr $proc % 127`
# Added wait here for all tablespaces to be created
wait
if expr x$tpcc_listfiles = xt > /dev/null; then
 exit 0
fi

if test $out -ne 0
then
 exit 1;
else
 exit 0;
fi
```

createts_node1.sh

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh cust_0
/export/home/tpcc_disks_recap/cust_0_0 16040M 409600K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh stok_0
/export/home/tpcc_disks_recap/stok_0_0 16040M 409600K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh nord_0
/export/home/tpcc_disks_recap/nord_0_0 16040M 102400K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh hist_0
/export/home/tpcc_disks_recap/hist_0_0 16040M 102400K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_0 64040M 102400K 16K 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh icust1_0
/export/home/tpcc_disks_recap/icust1_0_0 16040M 102400K 16K 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh icust2_0
/export/home/tpcc_disks_recap/icust2_0_0 16040M 102400K 16K 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh istok_0
/export/home/tpcc_disks_recap/istok_0_0 16040M 102400K 16K 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh misc_0
/export/home/tpcc_disks_recap/misc_0_0 16040M 40960K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_0 1024M 10240K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh iordr2_0
/export/home/tpcc_disks_recap/iordr2_0_0 16040M 102400K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh temp_0
/export/home/tpcc_disks_recap/temp_0_0 16040M 102400K auto 1 t &
wait
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_3 16040M 0 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_8 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_9 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_10 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_90 16040M 0 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_91 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_92 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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wait
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/export/home/tpcc_disks_recap/cust_0_135 16040M 0 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/tpcc_disks_recap/cust_0_148 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_149 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_150 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_153 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_163 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_164 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_165 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_0
/export/home/tpcc_disks_recap/cust_0_173 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_3 16040M 0 &
```

```
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_10 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
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/export/home/tpcc_disks_recap/stok_0_13 16040M 0 &
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/export/home/tpcc_disks_recap/stok_0_90 16040M 0 &
```

```
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wait
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_112 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_113 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_114 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_115 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_116 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_117 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_118 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_119 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_120 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_121 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_122 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_123 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_124 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_125 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_126 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_127 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_128 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_129 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_130 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_131 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_132 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_133 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_134 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_135 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_136 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_137 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_138 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_139 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_140 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_141 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_142 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_143 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_144 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_145 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_146 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_147 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_148 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_149 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_150 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_151 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_152 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_153 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_154 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_155 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_156 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_157 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_158 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_159 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_160 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_161 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_162 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_163 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_164 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_0
/export/home/tpcc_disks_recap/stok_0_165 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh nord_0
/export/home/tpcc_disks_recap/nord_0_1 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_8 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_9 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
```

```
/export/home/tpcc_disks_recap/hist_0_10 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_11 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_0
/export/home/tpcc_disks_recap/hist_0_12 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_1 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_2 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_3 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_4 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_5 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_6 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_7 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_8 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_9 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_10 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_11 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_12 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_13 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_14 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_15 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_16 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_17 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_18 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_19 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_20 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_21 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_22 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_23 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_24 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_25 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_26 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_27 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_28 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_29 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_30 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_31 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_32 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_33 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_34 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_35 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_36 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_37 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_38 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_39 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_40 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_41 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_0
/export/home/tpcc_disks_recap/ordr_0_42 64040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust1_0
/export/home/tpcc_disks_recap/icust1_0_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust1_0
/export/home/tpcc_disks_recap/icust1_0_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust1_0
/export/home/tpcc_disks_recap/icust1_0_3 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_0
/export/home/tpcc_disks_recap/icust2_0_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_0
/export/home/tpcc_disks_recap/icust2_0_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_0
/export/home/tpcc_disks_recap/icust2_0_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_0
/export/home/tpcc_disks_recap/icust2_0_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_0
/export/home/tpcc_disks_recap/icust2_0_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_0
/export/home/tpcc_disks_recap/icust2_0_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_0
/export/home/tpcc_disks_recap/icust2_0_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_0
/export/home/tpcc_disks_recap/icust2_0_8 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_8 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_9 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_10 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_0
/export/home/tpcc_disks_recap/istok_0_11 16040M 0 &
wait
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_1 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_2 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_3 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_4 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_5 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_6 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_7 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_8 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_9 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_10 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_11 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_12 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_13 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_14 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_15 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_16 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_17 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
```

```
/export/home/tpcc_disks_recap/restbl_0_18 1024M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh restbl_0
/export/home/tpcc_disks_recap/restbl_0_19 1024M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_0
/export/home/tpcc_disks_recap/iordr2_0_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_0
/export/home/tpcc_disks_recap/iordr2_0_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_0
/export/home/tpcc_disks_recap/iordr2_0_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_0
/export/home/tpcc_disks_recap/iordr2_0_4 16040M 0 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_0
/export/home/tpcc_disks_recap/iordr2_0_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_0
/export/home/tpcc_disks_recap/iordr2_0_8 16040M 0 &
wait
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
```

```
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_149 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_150 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_151 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_152 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_153 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_154 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_155 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_156 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_157 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_158 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_159 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_160 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_161 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_162 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_163 16040M 1 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_164 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_165 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_166 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_167 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_168 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_169 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_170 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_171 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_172 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_173 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_174 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_175 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_176 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_177 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_178 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_179 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_180 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_181 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_182 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_183 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_184 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_185 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_186 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_187 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_188 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_189 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_190 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_191 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_192 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_193 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_194 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_195 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_196 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_197 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_198 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_199 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_200 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_201 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_202 16040M 1 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_203 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_204 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_205 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_206 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_207 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_208 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_209 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_210 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_211 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_212 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_213 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_214 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_215 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_216 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_217 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_218 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_219 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_220 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_221 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_222 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_223 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_224 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_225 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_226 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_227 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_228 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_229 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_230 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_231 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_232 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_233 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_234 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_235 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_236 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_237 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_238 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_239 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_240 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_241 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_242 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_243 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_244 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_245 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_246 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_247 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_248 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_249 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
```

```
/export/home/tpcc_disks_recap/temp_0_250 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_251 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_252 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_253 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_254 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_255 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_256 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_257 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_258 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_259 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_260 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_261 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_262 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_263 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_264 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_265 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_266 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_267 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_268 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_269 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_270 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_271 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_272 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_273 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_274 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_275 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_276 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_277 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_278 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_279 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_280 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_281 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_282 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_283 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_284 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_285 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_286 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_287 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_288 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_289 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_290 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_291 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_292 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_293 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_294 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_295 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_296 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_297 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_298 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_299 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_300 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_301 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_302 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_303 16040M 1 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_304 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_305 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_306 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_307 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_308 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_309 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_310 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_311 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_312 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_313 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_314 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_315 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_316 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_317 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_318 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_319 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_320 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_321 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_322 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_323 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_324 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_325 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_326 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_327 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_328 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_329 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_330 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_331 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_332 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_333 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_334 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_335 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_336 16040M 1 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_337 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_338 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_339 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_340 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_341 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_342 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_343 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_344 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_345 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_346 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_347 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_348 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_349 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_350 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_351 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_352 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_353 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_354 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_355 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_356 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_357 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_358 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_359 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_360 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_361 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_362 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_363 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_364 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_365 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_366 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_367 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_368 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_369 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_370 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_371 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_372 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_373 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_374 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_375 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_376 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_377 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_378 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_379 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_380 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_381 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_382 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_383 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_384 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_385 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_386 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_387 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_388 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_390 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_391 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_392 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_393 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_394 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_395 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_396 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_397 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_398 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_399 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_400 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_401 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_402 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_403 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_404 16040M 1 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_405 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_406 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_407 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_408 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_409 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_410 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_411 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_412 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_413 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_414 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_415 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_416 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_417 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_418 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_419 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_420 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_421 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_422 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
```

```
/export/home/tpcc_disks_recap/temp_0_423 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_424 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_425 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_426 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_427 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_428 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_429 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_430 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_431 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_432 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_433 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_434 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_435 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_436 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_437 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_438 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_439 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_440 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_441 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_442 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_443 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_444 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_445 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_446 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_447 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_448 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_449 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_450 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_451 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_452 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_453 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_454 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_455 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_456 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_457 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_458 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_459 16040M 1 &
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wait
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_508 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_509 16040M 1 &
```

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/export/home/tpcc_disks_recap/temp_0_596 16040M 1 &
```

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wait
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/export/home/tpcc_disks_recap/temp_0_616 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_617 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_618 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_619 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_620 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_621 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_622 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_623 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_624 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_625 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_626 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_627 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_628 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_629 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_630 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_631 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_632 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_633 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_634 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_635 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_636 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_637 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_638 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_639 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_640 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_641 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_642 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_643 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_644 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_645 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_646 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_647 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_648 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_649 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_650 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_651 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_652 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_653 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_654 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_655 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_656 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_657 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_658 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_659 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_660 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_661 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_662 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_663 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_665 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_666 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_667 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_668 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_669 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_670 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_671 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_672 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_673 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_674 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_675 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_676 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_677 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_678 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_679 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_680 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_681 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_682 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
```

```
/export/home/tpcc_disks_recap/temp_0_683 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_684 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_685 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_686 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_687 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_688 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_689 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_691 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_692 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_693 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_694 16040M 1 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_696 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_701 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_702 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_703 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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wait
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_713 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_716 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_717 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_718 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_720 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_721 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_723 16040M 1 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_727 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_728 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_729 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_730 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_733 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_735 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_737 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_743 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_744 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_745 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_746 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_747 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_748 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_751 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_752 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_753 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_754 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_755 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_756 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_757 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_758 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_759 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_760 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_761 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_762 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_763 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_764 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_765 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_766 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_767 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_768 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_769 16040M 1 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_770 16040M 1 &
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```

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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_927 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_928 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_929 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_930 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_931 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_932 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_933 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_934 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_935 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_936 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_937 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_938 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_939 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_940 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_941 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_942 16040M 1 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_943 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_944 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_945 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_946 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_947 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_948 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_949 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_950 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_951 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_952 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_953 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_954 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_955 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_956 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_957 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_958 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_959 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_960 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_961 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_962 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_963 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_964 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_965 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_966 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_967 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_968 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_969 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_970 16040M 1 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_973 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_974 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_975 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_976 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_977 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_978 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_979 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_980 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_981 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_982 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_983 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_984 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_985 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_986 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_987 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_988 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_989 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_990 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_991 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_992 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_993 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_994 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_995 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_996 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_997 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_998 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_999 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1000 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1001 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1002 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1003 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1004 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1005 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1006 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1007 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1008 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1009 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1010 16040M 1 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1011 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1012 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1013 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1014 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1015 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1016 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1017 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1018 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1019 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1020 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1021 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1022 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1023 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1024 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1025 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1026 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1027 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1028 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
```

```
/export/home/tpcc_disks_recap/temp_0_1029 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1030 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1031 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1032 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1033 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1034 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1035 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1036 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1038 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1042 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1048 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1049 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1052 16040M 1 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1066 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1068 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1069 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1070 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1071 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1072 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1073 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1074 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1075 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1078 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1079 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1080 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1081 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1082 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1083 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1084 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1085 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1086 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1087 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1088 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1089 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1090 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1091 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1092 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1093 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1094 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1095 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1096 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1097 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1098 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1099 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1100 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1101 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1102 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1103 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1104 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1105 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1106 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1107 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1108 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1109 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1110 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1111 16040M 1 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1112 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1113 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1114 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1115 16040M 1 &
```

```
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/export/home/tpcc_disks_recap/temp_0_1116 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1117 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1118 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1119 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1120 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1121 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1122 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1123 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1124 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1125 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1126 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1127 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1128 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1129 16040M 1 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1134 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1135 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1202 16040M 1 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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wait
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1287 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1288 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
```

```
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1374 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1375 16040M 1 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1540 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1541 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1542 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1543 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1544 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1545 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1546 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1547 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1548 16040M 1 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1549 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1550 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1551 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1552 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1553 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1554 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1555 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1556 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1557 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1558 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1559 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1560 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1561 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1562 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1563 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1564 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1565 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1566 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1567 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1568 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1589 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1590 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1591 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1592 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1612 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1613 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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wait
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1633 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1634 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
```

```
/export/home/tpcc_disks_recap/temp_0_1635 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1718 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1720 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1721 16040M 1 &
```

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/export/home/tpcc_disks_recap/temp_0_1807 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1808 16040M 1 &
```

```
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wait
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/export/home/tpcc_disks_recap/temp_0_1846 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1847 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1848 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1849 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1853 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1860 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1861 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1862 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1863 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1864 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1865 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1866 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1867 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1869 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1870 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1871 16040M 1 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1873 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1874 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1884 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1887 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1888 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1889 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1890 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1891 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1892 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1893 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1894 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
```

```
/export/home/tpcc_disks_recap/temp_0_1895 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1897 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1898 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1899 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1900 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1901 16040M 1 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1903 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1904 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1905 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1906 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1908 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1911 16040M 1 &
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/export/home/tpcc_disks_recap/temp_0_1913 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1914 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1915 16040M 1 &
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wait
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/export/home/tpcc_disks_recap/temp_0_1925 16040M 1 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1953 16040M 1 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1974 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1975 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1980 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1981 16040M 1 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1988 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1995 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_1996 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
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/export/home/tpcc_disks_recap/temp_0_1999 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2000 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2001 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2002 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2003 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2004 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2005 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2006 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2007 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2008 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2009 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2010 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2011 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2012 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2013 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2014 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2015 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2016 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2017 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2018 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2019 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2020 16040M 1 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2021 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2022 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2023 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2024 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2025 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2026 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2027 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2028 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2029 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2030 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2031 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2032 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2033 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2034 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2035 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2036 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2037 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2038 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2039 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2040 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2041 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2042 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2043 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2044 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2045 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2046 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2047 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2048 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2049 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2050 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2051 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2052 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2053 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2054 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2055 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2056 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2057 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2058 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2059 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2060 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2061 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2062 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2063 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2064 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2065 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2066 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2067 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
```

```
/export/home/tpcc_disks_recap/temp_0_2068 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2069 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2070 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2071 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2072 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2073 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2074 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2075 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2076 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2077 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2078 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2079 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2080 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2081 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2082 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2083 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2084 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2085 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2086 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2087 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2088 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2089 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2090 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2091 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2092 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2093 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2094 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2095 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2096 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2097 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2098 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2099 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2100 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2101 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2102 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2103 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2104 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2105 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2106 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2107 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2108 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2109 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2110 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2111 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2112 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2113 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2114 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2115 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2116 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2117 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2118 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2119 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2120 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2121 16040M 1 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2122 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2123 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2124 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2125 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2126 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2127 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2128 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2129 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2130 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2131 16040M 1 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh temp_0
/export/home/tpcc_disks_recap/temp_0_2132 16040M 1 &
wait
```

createts_node[2..27].sh

```
## Editor's Note: createts_node2..27 are the same except for the parameter
passed in.  Just replace the number with 1..26 for nodes 2..27.
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh cust_1
/export/home/tpcc_disks_recap/cust_1_0 16040M 409600K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh stok_1
/export/home/tpcc_disks_recap/stok_1_0 16040M 409600K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh nord_1
/export/home/tpcc_disks_recap/nord_1_0 16040M 102400K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh hist_1
/export/home/tpcc_disks_recap/hist_1_0 16040M 102400K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_0 64040M 102400K 16K 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh icust1_1
/export/home/tpcc_disks_recap/icust1_1_0 16040M 102400K 16K 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh icust2_1
/export/home/tpcc_disks_recap/icust2_1_0 16040M 102400K 16K 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh istok_1
/export/home/tpcc_disks_recap/istok_1_0 16040M 102400K 16K 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh misc_1
/export/home/tpcc_disks_recap/misc_1_0 16040M 40960K auto 0 t &
/export/home/oracle/tpcc_kit_27nodes/scripts/addts.sh iordr2_1
/export/home/tpcc_disks_recap/iordr2_1_0 16040M 102400K auto 0 t &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_8 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_9 16040M 0 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_10 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_11 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_12 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_13 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_14 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_15 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_16 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_17 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_18 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_19 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_20 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_21 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_22 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_23 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_24 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_25 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_26 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_27 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_28 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_29 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_30 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_31 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_32 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_33 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_34 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_35 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_36 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_37 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_38 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_39 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_40 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_41 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_42 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_43 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_44 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_45 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_46 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_47 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_48 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_49 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_50 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_51 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_52 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_53 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_54 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_55 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_56 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_57 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_58 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_59 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_60 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_61 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_62 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_63 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_64 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_65 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_66 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_67 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_68 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_69 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_70 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_71 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_72 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_73 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_74 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_75 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_76 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_77 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_78 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_79 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_80 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_81 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_82 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_83 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_84 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_85 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_86 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_87 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_88 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_89 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_90 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_91 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_92 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_93 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_94 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_95 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_96 16040M 0 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_97 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_98 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_99 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_100 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_101 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_102 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_103 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_104 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_105 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_106 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_107 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_108 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_109 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_110 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_111 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_112 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_113 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_114 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_115 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_116 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_117 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_118 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_119 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_120 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_121 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_122 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_123 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_124 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_125 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_126 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_127 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_128 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_129 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_130 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_131 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_132 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_133 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_134 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_135 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_136 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_137 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_138 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_139 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_140 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_141 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_142 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_143 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_144 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_145 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_146 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_147 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_148 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_149 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_150 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_151 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_152 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_153 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_154 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_155 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_156 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_157 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_158 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_159 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_160 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_161 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_162 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_163 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_164 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_165 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_166 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_167 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_168 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_169 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_170 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_171 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_172 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh cust_1
/export/home/tpcc_disks_recap/cust_1_173 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_8 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_9 16040M 0 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_10 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_11 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_12 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_13 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_14 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_15 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_16 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_17 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_18 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_19 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_20 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_21 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_22 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_23 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_24 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_25 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_26 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_27 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_28 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_29 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_30 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_31 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_32 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_33 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_34 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_35 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_36 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_37 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_38 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_39 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_40 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_41 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_42 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_44 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_45 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_46 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_47 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_48 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_49 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_50 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_51 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_52 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_53 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_54 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_55 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_56 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_57 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_58 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_61 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_62 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_63 16040M 0 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_65 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_66 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_67 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_68 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_69 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_70 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_71 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_72 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_73 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_74 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_75 16040M 0 &
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/export/home/tpcc_disks_recap/stok_1_76 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_77 16040M 0 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_82 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_83 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_84 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_85 16040M 0 &
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/export/home/tpcc_disks_recap/stok_1_86 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_87 16040M 0 &
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/export/home/tpcc_disks_recap/stok_1_88 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_89 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_90 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_91 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_92 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_93 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_94 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_95 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_96 16040M 0 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_97 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_98 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_99 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_100 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_101 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_102 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_103 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_104 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_105 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_106 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_107 16040M 0 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_112 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_113 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_114 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_115 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_116 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_117 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_118 16040M 0 &
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/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
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/export/home/tpcc_disks_recap/stok_1_130 16040M 0 &
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/export/home/tpcc_disks_recap/stok_1_133 16040M 0 &
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/export/home/tpcc_disks_recap/stok_1_134 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_135 16040M 0 &
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/export/home/tpcc_disks_recap/stok_1_138 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_139 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_140 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_141 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_142 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_143 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_144 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_145 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_146 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_147 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_148 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_149 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_150 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_151 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_152 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_153 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_154 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_155 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_156 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_157 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_158 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_159 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_160 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_161 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_162 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_163 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_164 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh stok_1
/export/home/tpcc_disks_recap/stok_1_165 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh nord_1
/export/home/tpcc_disks_recap/nord_1_1 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_8 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_9 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_10 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_11 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh hist_1
/export/home/tpcc_disks_recap/hist_1_12 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_1 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_2 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_3 64040M 0 &
```

```
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_4 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_5 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_6 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_7 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_8 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_9 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_10 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_11 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_12 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_13 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_14 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_15 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_16 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_17 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_18 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_19 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_20 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_21 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_22 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_23 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_24 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_25 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_26 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_27 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_28 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_29 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_30 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_31 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_32 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_33 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_34 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_35 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_36 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_37 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_38 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_39 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_40 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_41 64040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh ordr_1
/export/home/tpcc_disks_recap/ordr_1_42 64040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust1_1
/export/home/tpcc_disks_recap/icust1_1_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust1_1
/export/home/tpcc_disks_recap/icust1_1_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust1_1
/export/home/tpcc_disks_recap/icust1_1_3 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_1
/export/home/tpcc_disks_recap/icust2_1_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_1
/export/home/tpcc_disks_recap/icust2_1_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_1
/export/home/tpcc_disks_recap/icust2_1_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_1
/export/home/tpcc_disks_recap/icust2_1_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_1
/export/home/tpcc_disks_recap/icust2_1_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_1
/export/home/tpcc_disks_recap/icust2_1_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_1
/export/home/tpcc_disks_recap/icust2_1_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh icust2_1
/export/home/tpcc_disks_recap/icust2_1_8 16040M 0 &
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_8 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_9 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_10 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh istok_1
/export/home/tpcc_disks_recap/istok_1_11 16040M 0 &
wait
wait
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_1
/export/home/tpcc_disks_recap/iordr2_1_1 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_1
/export/home/tpcc_disks_recap/iordr2_1_2 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_1
/export/home/tpcc_disks_recap/iordr2_1_3 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_1
/export/home/tpcc_disks_recap/iordr2_1_4 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_1
/export/home/tpcc_disks_recap/iordr2_1_5 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_1
/export/home/tpcc_disks_recap/iordr2_1_6 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_1
/export/home/tpcc_disks_recap/iordr2_1_7 16040M 0 &
/export/home/oracle/tpcc_kit_27nodes/scripts/addfile.sh iordr2_1
/export/home/tpcc_disks_recap/iordr2_1_8 16040M 0 &
```

ddview.sh

```
#!/bin/sh

$tpcc_sqlplus $tpcc_sqlplus_args << !
$tpcc_internal_connect

spool ddview.log


REM
REM In an ade/nde view we might need to run standard.sql and dbmsstdx manually
REM catalog and catproc suppose to take care of it
REM

@$ORACLE_HOME/plsql/admin/standard
@$ORACLE_HOME/rdbms/admin/dbmsstdx

@$ORACLE_HOME/rdbms/admin/catalog
@$ORACLE_HOME/rdbms/admin/catproc

@$ORACLE_HOME/rdbms/admin/dbmsspc
@$ORACLE_HOME/rdbms/admin/prvtspad.plb

REM
REM In an ade/nde view we might need to run pupbld manually
REM catalog and catproc suppose to take care of it
REM
```

```
connect system/manager
REM @$ORACLE_HOME/sqlplus/admin/pupbld


REM
REM Oracle
REM

REM if test $NUMBER_ORACLE_NODE -qt 1
REM then

REM @$ORACLE_HOME/rdbms/admin/catparr

REM fi

spool off
!

#sh $tpcc_scripts/queue.sh
```

loadcust_node[1..27].sh

```
#created automatically by /export/home/oracle/tpcc_kit_27nodes/scripts/evenload.sh Fri Aug 20 14:45:17 PDT 2010
rm -f loadcust*.log
cd $tpcc_bench
allprocs=
$tpcc_load -M 2430000 -c  -b 1 -e 351 >> loadcust1.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 352 -e 702 >> loadcust2.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 703 -e 1053 >> loadcust3.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 1054 -e 1404 >> loadcust4.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 1405 -e 1755 >> loadcust5.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 1756 -e 2106 >> loadcust6.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 2107 -e 2457 >> loadcust7.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 2458 -e 2808 >> loadcust8.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 2809 -e 3159 >> loadcust9.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 3160 -e 3510 >> loadcust10.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 3511 -e 3861 >> loadcust11.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 3862 -e 4212 >> loadcust12.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 4213 -e 4563 >> loadcust13.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 4564 -e 4914 >> loadcust14.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 4915 -e 5265 >> loadcust15.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 5266 -e 5616 >> loadcust16.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 5617 -e 5967 >> loadcust17.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 5968 -e 6318 >> loadcust18.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 6319 -e 6669 >> loadcust19.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 6670 -e 7020 >> loadcust20.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 7021 -e 7371 >> loadcust21.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 7372 -e 7722 >> loadcust22.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 7723 -e 8073 >> loadcust23.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 8074 -e 8424 >> loadcust24.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 8425 -e 8775 >> loadcust25.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 8776 -e 9126 >> loadcust26.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 9127 -e 9477 >> loadcust27.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 9478 -e 9828 >> loadcust28.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 9829 -e 10179 >> loadcust29.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 10180 -e 10530 >> loadcust30.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 10531 -e 10881 >> loadcust31.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 10882 -e 11232 >> loadcust32.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 11233 -e 11583 >> loadcust33.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 11584 -e 11934 >> loadcust34.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 11935 -e 12285 >> loadcust35.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 12286 -e 12636 >> loadcust36.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 12637 -e 12987 >> loadcust37.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 12988 -e 13338 >> loadcust38.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 13339 -e 13689 >> loadcust39.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 13690 -e 14040 >> loadcust40.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 14041 -e 14391 >> loadcust41.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 14392 -e 14742 >> loadcust42.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 14743 -e 15093 >> loadcust43.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 15094 -e 15444 >> loadcust44.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 15445 -e 15795 >> loadcust45.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 15796 -e 16146 >> loadcust46.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 16147 -e 16497 >> loadcust47.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 16498 -e 16848 >> loadcust48.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 16849 -e 17199 >> loadcust49.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 17200 -e 17550 >> loadcust50.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 17551 -e 17901 >> loadcust51.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 17902 -e 18252 >> loadcust52.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 18253 -e 18603 >> loadcust53.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 18604 -e 18954 >> loadcust54.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 18955 -e 19305 >> loadcust55.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 19306 -e 19656 >> loadcust56.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 19657 -e 20007 >> loadcust57.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 20008 -e 20358 >> loadcust58.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 20359 -e 20709 >> loadcust59.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 20710 -e 21060 >> loadcust60.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 21061 -e 21411 >> loadcust61.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 21412 -e 21762 >> loadcust62.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 21763 -e 22113 >> loadcust63.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 22114 -e 22464 >> loadcust64.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 22465 -e 22815 >> loadcust65.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 22816 -e 23166 >> loadcust66.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 23167 -e 23517 >> loadcust67.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 23518 -e 23868 >> loadcust68.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 23869 -e 24219 >> loadcust69.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 24220 -e 24570 >> loadcust70.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 24571 -e 24921 >> loadcust71.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 24922 -e 25272 >> loadcust72.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 25273 -e 25623 >> loadcust73.log 2>&1 &
allprocs="$allprocs ${!}"
```

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$tpcc_load -M 2430000 -c  -b 25624 -e 25974 >> loadcust74.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 25975 -e 26325 >> loadcust75.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 26326 -e 26676 >> loadcust76.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 26677 -e 27027 >> loadcust77.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 27028 -e 27378 >> loadcust78.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 27379 -e 27729 >> loadcust79.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 27730 -e 28080 >> loadcust80.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 28081 -e 28431 >> loadcust81.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 28432 -e 28782 >> loadcust82.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 28783 -e 29133 >> loadcust83.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 29134 -e 29484 >> loadcust84.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 29485 -e 29835 >> loadcust85.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 29836 -e 30186 >> loadcust86.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 30187 -e 30537 >> loadcust87.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 30538 -e 30888 >> loadcust88.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 30889 -e 31239 >> loadcust89.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 31240 -e 31590 >> loadcust90.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 31591 -e 31941 >> loadcust91.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 31942 -e 32292 >> loadcust92.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 32293 -e 32643 >> loadcust93.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 32644 -e 32994 >> loadcust94.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 32995 -e 33345 >> loadcust95.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 33346 -e 33696 >> loadcust96.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 33697 -e 34047 >> loadcust97.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 34048 -e 34398 >> loadcust98.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 34399 -e 34749 >> loadcust99.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 34750 -e 35100 >> loadcust100.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 35101 -e 35451 >> loadcust101.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 35452 -e 35802 >> loadcust102.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 35803 -e 36153 >> loadcust103.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 36154 -e 36504 >> loadcust104.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 36505 -e 36855 >> loadcust105.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 36856 -e 37206 >> loadcust106.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 37207 -e 37557 >> loadcust107.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 37558 -e 37908 >> loadcust108.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 37909 -e 38259 >> loadcust109.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 38260 -e 38610 >> loadcust110.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 38611 -e 38961 >> loadcust111.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 38962 -e 39312 >> loadcust112.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 39313 -e 39664 >> loadcust113.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 39665 -e 40016 >> loadcust114.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 40017 -e 40368 >> loadcust115.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 40369 -e 40720 >> loadcust116.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 40721 -e 41072 >> loadcust117.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 41073 -e 41424 >> loadcust118.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 41425 -e 41776 >> loadcust119.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 41777 -e 42128 >> loadcust120.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 42129 -e 42480 >> loadcust121.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 42481 -e 42832 >> loadcust122.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 42833 -e 43184 >> loadcust123.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 43185 -e 43536 >> loadcust124.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 43537 -e 43888 >> loadcust125.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 43889 -e 44240 >> loadcust126.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 44241 -e 44592 >> loadcust127.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 44593 -e 44944 >> loadcust128.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 44945 -e 45296 >> loadcust129.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 45297 -e 45648 >> loadcust130.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 45649 -e 46000 >> loadcust131.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 46001 -e 46352 >> loadcust132.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 46353 -e 46704 >> loadcust133.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 46705 -e 47056 >> loadcust134.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 47057 -e 47408 >> loadcust135.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 47409 -e 47760 >> loadcust136.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 47761 -e 48112 >> loadcust137.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 48113 -e 48464 >> loadcust138.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 48465 -e 48816 >> loadcust139.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 48817 -e 49168 >> loadcust140.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 49169 -e 49520 >> loadcust141.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 49521 -e 49872 >> loadcust142.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 49873 -e 50224 >> loadcust143.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 50225 -e 50576 >> loadcust144.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 50577 -e 50928 >> loadcust145.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 50929 -e 51280 >> loadcust146.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 51281 -e 51632 >> loadcust147.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 51633 -e 51984 >> loadcust148.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 51985 -e 52336 >> loadcust149.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 52337 -e 52688 >> loadcust150.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 52689 -e 53040 >> loadcust151.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 53041 -e 53392 >> loadcust152.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 53393 -e 53744 >> loadcust153.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 53745 -e 54096 >> loadcust154.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 54097 -e 54448 >> loadcust155.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 54449 -e 54800 >> loadcust156.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 54801 -e 55152 >> loadcust157.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 55153 -e 55504 >> loadcust158.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 55505 -e 55856 >> loadcust159.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 55857 -e 56208 >> loadcust160.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -c  -b 56209 -e 56560 >> loadcust161.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 56561 -e 56912 >> loadcust162.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 56913 -e 57264 >> loadcust163.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 57265 -e 57616 >> loadcust164.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 57617 -e 57968 >> loadcust165.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 57969 -e 58320 >> loadcust166.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 58321 -e 58672 >> loadcust167.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 58673 -e 59024 >> loadcust168.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 59025 -e 59376 >> loadcust169.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 59377 -e 59728 >> loadcust170.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 59729 -e 60080 >> loadcust171.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 60081 -e 60432 >> loadcust172.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 60433 -e 60784 >> loadcust173.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 60785 -e 61136 >> loadcust174.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 61137 -e 61488 >> loadcust175.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 61489 -e 61840 >> loadcust176.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 61841 -e 62192 >> loadcust177.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 62193 -e 62544 >> loadcust178.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 62545 -e 62896 >> loadcust179.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 62897 -e 63248 >> loadcust180.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 63249 -e 63600 >> loadcust181.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 63601 -e 63952 >> loadcust182.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 63953 -e 64304 >> loadcust183.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 64305 -e 64656 >> loadcust184.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 64657 -e 65008 >> loadcust185.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 65009 -e 65360 >> loadcust186.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 65361 -e 65712 >> loadcust187.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 65713 -e 66064 >> loadcust188.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 66065 -e 66416 >> loadcust189.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 66417 -e 66768 >> loadcust190.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 66769 -e 67120 >> loadcust191.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 67121 -e 67472 >> loadcust192.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 67473 -e 67824 >> loadcust193.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 67825 -e 68176 >> loadcust194.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 68177 -e 68528 >> loadcust195.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 68529 -e 68880 >> loadcust196.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 68881 -e 69232 >> loadcust197.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 69233 -e 69584 >> loadcust198.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 69585 -e 69936 >> loadcust199.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 69937 -e 70288 >> loadcust200.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 70289 -e 70640 >> loadcust201.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 70641 -e 70992 >> loadcust202.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 70993 -e 71344 >> loadcust203.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 71345 -e 71696 >> loadcust204.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 71697 -e 72048 >> loadcust205.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 72049 -e 72400 >> loadcust206.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 72401 -e 72752 >> loadcust207.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 72753 -e 73104 >> loadcust208.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 73105 -e 73456 >> loadcust209.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 73457 -e 73808 >> loadcust210.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 73809 -e 74160 >> loadcust211.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 74161 -e 74512 >> loadcust212.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 74513 -e 74864 >> loadcust213.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 74865 -e 75216 >> loadcust214.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 75217 -e 75568 >> loadcust215.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 75569 -e 75920 >> loadcust216.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 75921 -e 76272 >> loadcust217.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 76273 -e 76624 >> loadcust218.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 76625 -e 76976 >> loadcust219.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 76977 -e 77328 >> loadcust220.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 77329 -e 77680 >> loadcust221.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 77681 -e 78032 >> loadcust222.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 78033 -e 78384 >> loadcust223.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 78385 -e 78736 >> loadcust224.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 78737 -e 79088 >> loadcust225.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 79089 -e 79440 >> loadcust226.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 79441 -e 79792 >> loadcust227.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 79793 -e 80144 >> loadcust228.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 80145 -e 80496 >> loadcust229.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 80497 -e 80848 >> loadcust230.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 80849 -e 81200 >> loadcust231.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 81201 -e 81552 >> loadcust232.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 81553 -e 81904 >> loadcust233.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 81905 -e 82256 >> loadcust234.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 82257 -e 82608 >> loadcust235.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 82609 -e 82960 >> loadcust236.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 82961 -e 83312 >> loadcust237.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 83313 -e 83664 >> loadcust238.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 83665 -e 84016 >> loadcust239.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 84017 -e 84368 >> loadcust240.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 84369 -e 84720 >> loadcust241.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 84721 -e 85072 >> loadcust242.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 85073 -e 85424 >> loadcust243.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 85425 -e 85776 >> loadcust244.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 85777 -e 86128 >> loadcust245.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 86129 -e 86480 >> loadcust246.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 86481 -e 86832 >> loadcust247.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -c  -b 86833 -e 87184 >> loadcust248.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 87185 -e 87536 >> loadcust249.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 87537 -e 87888 >> loadcust250.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 87889 -e 88240 >> loadcust251.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 88241 -e 88592 >> loadcust252.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 88593 -e 88944 >> loadcust253.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 88945 -e 89296 >> loadcust254.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 89297 -e 89648 >> loadcust255.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -c  -b 89649 -e 90000 >> loadcust256.log 2>&1 &
allprocs="$allprocs ${!}"
error=0
for curproc in $allprocs; do
  wait $curproc
  error=`expr $? + $error`
done
exit `expr $error != 0`
```

NOTE: Repeat loadcust[nodes2-27].sh for each node

loaddist_node[1..27].sh

```
#created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/evenload.sh Fri Aug 20
14:40:09 PDT 2010
rm -f loaddist*.log
cd $tpcc_bench
allprocs=
$tpcc_load -M 2430000 -d  -b 1 -e 351 >> loaddist1.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 352 -e 702 >> loaddist2.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 703 -e 1053 >> loaddist3.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 1054 -e 1404 >> loaddist4.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 1405 -e 1755 >> loaddist5.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 1756 -e 2106 >> loaddist6.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 2107 -e 2457 >> loaddist7.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 2458 -e 2808 >> loaddist8.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 2809 -e 3159 >> loaddist9.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 3160 -e 3510 >> loaddist10.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 3511 -e 3861 >> loaddist11.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 3862 -e 4212 >> loaddist12.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 4213 -e 4563 >> loaddist13.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 4564 -e 4914 >> loaddist14.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 4915 -e 5265 >> loaddist15.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 5266 -e 5616 >> loaddist16.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 5617 -e 5967 >> loaddist17.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 5968 -e 6318 >> loaddist18.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 6319 -e 6669 >> loaddist19.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 6670 -e 7020 >> loaddist20.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 7021 -e 7371 >> loaddist21.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 7372 -e 7722 >> loaddist22.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 7723 -e 8073 >> loaddist23.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 8074 -e 8424 >> loaddist24.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 8425 -e 8775 >> loaddist25.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 8776 -e 9126 >> loaddist26.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 9127 -e 9477 >> loaddist27.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 9478 -e 9828 >> loaddist28.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 9829 -e 10179 >> loaddist29.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 10180 -e 10530 >> loaddist30.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 10531 -e 10881 >> loaddist31.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 10882 -e 11232 >> loaddist32.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 11233 -e 11583 >> loaddist33.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 11584 -e 11934 >> loaddist34.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 11935 -e 12285 >> loaddist35.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 12286 -e 12636 >> loaddist36.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 12637 -e 12987 >> loaddist37.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 12988 -e 13338 >> loaddist38.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 13339 -e 13689 >> loaddist39.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 13690 -e 14040 >> loaddist40.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 14041 -e 14391 >> loaddist41.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 14392 -e 14742 >> loaddist42.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 14743 -e 15093 >> loaddist43.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 15094 -e 15444 >> loaddist44.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 15445 -e 15795 >> loaddist45.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 15796 -e 16146 >> loaddist46.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 16147 -e 16497 >> loaddist47.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 16498 -e 16848 >> loaddist48.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 16849 -e 17199 >> loaddist49.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 17200 -e 17550 >> loaddist50.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 17551 -e 17901 >> loaddist51.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 17902 -e 18252 >> loaddist52.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 18253 -e 18603 >> loaddist53.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 18604 -e 18954 >> loaddist54.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 18955 -e 19305 >> loaddist55.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 19306 -e 19656 >> loaddist56.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 19657 -e 20007 >> loaddist57.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 20008 -e 20358 >> loaddist58.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 20359 -e 20709 >> loaddist59.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 20710 -e 21060 >> loaddist60.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 21061 -e 21411 >> loaddist61.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 21412 -e 21762 >> loaddist62.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 21763 -e 22113 >> loaddist63.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 22114 -e 22464 >> loaddist64.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 22465 -e 22815 >> loaddist65.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 22816 -e 23166 >> loaddist66.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 23167 -e 23517 >> loaddist67.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 23518 -e 23868 >> loaddist68.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 23869 -e 24219 >> loaddist69.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 24220 -e 24570 >> loaddist70.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -d  -b 24571 -e 24921 >> loaddist71.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 24922 -e 25272 >> loaddist72.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 25273 -e 25623 >> loaddist73.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 25624 -e 25974 >> loaddist74.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 25975 -e 26325 >> loaddist75.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 26326 -e 26676 >> loaddist76.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 26677 -e 27027 >> loaddist77.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 27028 -e 27378 >> loaddist78.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 27379 -e 27729 >> loaddist79.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 27730 -e 28080 >> loaddist80.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 28081 -e 28431 >> loaddist81.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 28432 -e 28782 >> loaddist82.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 28783 -e 29133 >> loaddist83.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 29134 -e 29484 >> loaddist84.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 29485 -e 29835 >> loaddist85.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 29836 -e 30186 >> loaddist86.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 30187 -e 30537 >> loaddist87.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 30538 -e 30888 >> loaddist88.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 30889 -e 31239 >> loaddist89.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 31240 -e 31590 >> loaddist90.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 31591 -e 31941 >> loaddist91.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 31942 -e 32292 >> loaddist92.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 32293 -e 32643 >> loaddist93.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 32644 -e 32994 >> loaddist94.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 32995 -e 33345 >> loaddist95.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 33346 -e 33696 >> loaddist96.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 33697 -e 34047 >> loaddist97.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 34048 -e 34398 >> loaddist98.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 34399 -e 34749 >> loaddist99.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 34750 -e 35100 >> loaddist100.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 35101 -e 35451 >> loaddist101.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 35452 -e 35802 >> loaddist102.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 35803 -e 36153 >> loaddist103.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 36154 -e 36504 >> loaddist104.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 36505 -e 36855 >> loaddist105.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 36856 -e 37206 >> loaddist106.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 37207 -e 37557 >> loaddist107.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 37558 -e 37908 >> loaddist108.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 37909 -e 38259 >> loaddist109.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 38260 -e 38610 >> loaddist110.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 38611 -e 38961 >> loaddist111.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 38962 -e 39312 >> loaddist112.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 39313 -e 39664 >> loaddist113.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 39665 -e 40016 >> loaddist114.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 40017 -e 40368 >> loaddist115.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 40369 -e 40720 >> loaddist116.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 40721 -e 41072 >> loaddist117.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 41073 -e 41424 >> loaddist118.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 41425 -e 41776 >> loaddist119.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 41777 -e 42128 >> loaddist120.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 42129 -e 42480 >> loaddist121.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 42481 -e 42832 >> loaddist122.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 42833 -e 43184 >> loaddist123.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 43185 -e 43536 >> loaddist124.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 43537 -e 43888 >> loaddist125.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 43889 -e 44240 >> loaddist126.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 44241 -e 44592 >> loaddist127.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 44593 -e 44944 >> loaddist128.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 44945 -e 45296 >> loaddist129.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 45297 -e 45648 >> loaddist130.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 45649 -e 46000 >> loaddist131.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 46001 -e 46352 >> loaddist132.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 46353 -e 46704 >> loaddist133.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 46705 -e 47056 >> loaddist134.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 47057 -e 47408 >> loaddist135.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 47409 -e 47760 >> loaddist136.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 47761 -e 48112 >> loaddist137.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 48113 -e 48464 >> loaddist138.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 48465 -e 48816 >> loaddist139.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 48817 -e 49168 >> loaddist140.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 49169 -e 49520 >> loaddist141.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 49521 -e 49872 >> loaddist142.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 49873 -e 50224 >> loaddist143.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 50225 -e 50576 >> loaddist144.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 50577 -e 50928 >> loaddist145.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 50929 -e 51280 >> loaddist146.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 51281 -e 51632 >> loaddist147.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 51633 -e 51984 >> loaddist148.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 51985 -e 52336 >> loaddist149.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 52337 -e 52688 >> loaddist150.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 52689 -e 53040 >> loaddist151.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 53041 -e 53392 >> loaddist152.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 53393 -e 53744 >> loaddist153.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 53745 -e 54096 >> loaddist154.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 54097 -e 54448 >> loaddist155.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 54449 -e 54800 >> loaddist156.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 54801 -e 55152 >> loaddist157.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -d  -b 55153 -e 55504 >> loaddist158.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 55505 -e 55856 >> loaddist159.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 55857 -e 56208 >> loaddist160.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 56209 -e 56560 >> loaddist161.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 56561 -e 56912 >> loaddist162.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 56913 -e 57264 >> loaddist163.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 57265 -e 57616 >> loaddist164.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 57617 -e 57968 >> loaddist165.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 57969 -e 58320 >> loaddist166.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 58321 -e 58672 >> loaddist167.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 58673 -e 59024 >> loaddist168.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 59025 -e 59376 >> loaddist169.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 59377 -e 59728 >> loaddist170.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 59729 -e 60080 >> loaddist171.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 60081 -e 60432 >> loaddist172.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 60433 -e 60784 >> loaddist173.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 60785 -e 61136 >> loaddist174.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 61137 -e 61488 >> loaddist175.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 61489 -e 61840 >> loaddist176.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 61841 -e 62192 >> loaddist177.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 62193 -e 62544 >> loaddist178.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 62545 -e 62896 >> loaddist179.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 62897 -e 63248 >> loaddist180.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 63249 -e 63600 >> loaddist181.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 63601 -e 63952 >> loaddist182.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 63953 -e 64304 >> loaddist183.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 64305 -e 64656 >> loaddist184.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 64657 -e 65008 >> loaddist185.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 65009 -e 65360 >> loaddist186.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 65361 -e 65712 >> loaddist187.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 65713 -e 66064 >> loaddist188.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 66065 -e 66416 >> loaddist189.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 66417 -e 66768 >> loaddist190.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 66769 -e 67120 >> loaddist191.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 67121 -e 67472 >> loaddist192.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 67473 -e 67824 >> loaddist193.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 67825 -e 68176 >> loaddist194.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 68177 -e 68528 >> loaddist195.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 68529 -e 68880 >> loaddist196.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 68881 -e 69232 >> loaddist197.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 69233 -e 69584 >> loaddist198.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 69585 -e 69936 >> loaddist199.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 69937 -e 70288 >> loaddist200.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 70289 -e 70640 >> loaddist201.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 70641 -e 70992 >> loaddist202.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 70993 -e 71344 >> loaddist203.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 71345 -e 71696 >> loaddist204.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 71697 -e 72048 >> loaddist205.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 72049 -e 72400 >> loaddist206.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 72401 -e 72752 >> loaddist207.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 72753 -e 73104 >> loaddist208.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 73105 -e 73456 >> loaddist209.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 73457 -e 73808 >> loaddist210.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 73809 -e 74160 >> loaddist211.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 74161 -e 74512 >> loaddist212.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 74513 -e 74864 >> loaddist213.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 74865 -e 75216 >> loaddist214.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 75217 -e 75568 >> loaddist215.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 75569 -e 75920 >> loaddist216.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 75921 -e 76272 >> loaddist217.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 76273 -e 76624 >> loaddist218.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 76625 -e 76976 >> loaddist219.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 76977 -e 77328 >> loaddist220.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 77329 -e 77680 >> loaddist221.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 77681 -e 78032 >> loaddist222.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 78033 -e 78384 >> loaddist223.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 78385 -e 78736 >> loaddist224.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 78737 -e 79088 >> loaddist225.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 79089 -e 79440 >> loaddist226.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 79441 -e 79792 >> loaddist227.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 79793 -e 80144 >> loaddist228.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 80145 -e 80496 >> loaddist229.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 80497 -e 80848 >> loaddist230.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 80849 -e 81200 >> loaddist231.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 81201 -e 81552 >> loaddist232.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 81553 -e 81904 >> loaddist233.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 81905 -e 82256 >> loaddist234.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 82257 -e 82608 >> loaddist235.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 82609 -e 82960 >> loaddist236.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 82961 -e 83312 >> loaddist237.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 83313 -e 83664 >> loaddist238.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 83665 -e 84016 >> loaddist239.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 84017 -e 84368 >> loaddist240.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 84369 -e 84720 >> loaddist241.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 84721 -e 85072 >> loaddist242.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 85073 -e 85424 >> loaddist243.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 85425 -e 85776 >> loaddist244.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -d  -b 85777 -e 86128 >> loaddist245.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 86129 -e 86480 >> loaddist246.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 86481 -e 86832 >> loaddist247.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 86833 -e 87184 >> loaddist248.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 87185 -e 87536 >> loaddist249.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 87537 -e 87888 >> loaddist250.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 87889 -e 88240 >> loaddist251.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 88241 -e 88592 >> loaddist252.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 88593 -e 88944 >> loaddist253.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 88945 -e 89296 >> loaddist254.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 89297 -e 89648 >> loaddist255.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -d  -b 89649 -e 90000 >> loaddist256.log 2>&1 &
allprocs="$allprocs ${!}"
error=0
for curproc in $allprocs; do
  wait $curproc
  error=`expr $? + $error`
done
exit `expr $error != 0`
```

loadhist_node[1..27].sh

```
#created automatically by /export/home/oracle/tpcc_kit_27nodes/scripts/evenload.sh Fri Aug 20 14:41:23 PDT 2010
rm -f loadhist*.log
cd $tpcc_bench
allprocs=
$tpcc_load -M 2430000 -h  -b 1 -e 351 >> loadhist1.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 352 -e 702 >> loadhist2.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 703 -e 1053 >> loadhist3.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 1054 -e 1404 >> loadhist4.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 1405 -e 1755 >> loadhist5.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 1756 -e 2106 >> loadhist6.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 2107 -e 2457 >> loadhist7.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 2458 -e 2808 >> loadhist8.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 2809 -e 3159 >> loadhist9.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 3160 -e 3510 >> loadhist10.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 3511 -e 3861 >> loadhist11.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 3862 -e 4212 >> loadhist12.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 4213 -e 4563 >> loadhist13.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 4564 -e 4914 >> loadhist14.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 4915 -e 5265 >> loadhist15.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 5266 -e 5616 >> loadhist16.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 5617 -e 5967 >> loadhist17.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 5968 -e 6318 >> loadhist18.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 6319 -e 6669 >> loadhist19.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 6670 -e 7020 >> loadhist20.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 7021 -e 7371 >> loadhist21.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 7372 -e 7722 >> loadhist22.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 7723 -e 8073 >> loadhist23.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 8074 -e 8424 >> loadhist24.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 8425 -e 8775 >> loadhist25.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 8776 -e 9126 >> loadhist26.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 9127 -e 9477 >> loadhist27.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 9478 -e 9828 >> loadhist28.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 9829 -e 10179 >> loadhist29.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 10180 -e 10530 >> loadhist30.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 10531 -e 10881 >> loadhist31.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 10882 -e 11232 >> loadhist32.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 11233 -e 11583 >> loadhist33.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 11584 -e 11934 >> loadhist34.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 11935 -e 12285 >> loadhist35.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 12286 -e 12636 >> loadhist36.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 12637 -e 12987 >> loadhist37.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 12988 -e 13338 >> loadhist38.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 13339 -e 13689 >> loadhist39.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 13690 -e 14040 >> loadhist40.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 14041 -e 14391 >> loadhist41.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 14392 -e 14742 >> loadhist42.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 14743 -e 15093 >> loadhist43.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 15094 -e 15444 >> loadhist44.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 15445 -e 15795 >> loadhist45.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 15796 -e 16146 >> loadhist46.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 16147 -e 16497 >> loadhist47.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 16498 -e 16848 >> loadhist48.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 16849 -e 17199 >> loadhist49.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 17200 -e 17550 >> loadhist50.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 17551 -e 17901 >> loadhist51.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 17902 -e 18252 >> loadhist52.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 18253 -e 18603 >> loadhist53.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 18604 -e 18954 >> loadhist54.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 18955 -e 19305 >> loadhist55.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 19306 -e 19656 >> loadhist56.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 19657 -e 20007 >> loadhist57.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 20008 -e 20358 >> loadhist58.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 20359 -e 20709 >> loadhist59.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 20710 -e 21060 >> loadhist60.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 21061 -e 21411 >> loadhist61.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 21412 -e 21762 >> loadhist62.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 21763 -e 22113 >> loadhist63.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 22114 -e 22464 >> loadhist64.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 22465 -e 22815 >> loadhist65.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 22816 -e 23166 >> loadhist66.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 23167 -e 23517 >> loadhist67.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 23518 -e 23868 >> loadhist68.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -h  -b 23869 -e 24219 >> loadhist69.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 24220 -e 24570 >> loadhist70.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 24571 -e 24921 >> loadhist71.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 24922 -e 25272 >> loadhist72.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 25273 -e 25623 >> loadhist73.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 25624 -e 25974 >> loadhist74.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 25975 -e 26325 >> loadhist75.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 26326 -e 26676 >> loadhist76.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 26677 -e 27027 >> loadhist77.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 27028 -e 27378 >> loadhist78.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 27379 -e 27729 >> loadhist79.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 27730 -e 28080 >> loadhist80.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 28081 -e 28431 >> loadhist81.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 28432 -e 28782 >> loadhist82.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 28783 -e 29133 >> loadhist83.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 29134 -e 29484 >> loadhist84.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 29485 -e 29835 >> loadhist85.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 29836 -e 30186 >> loadhist86.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 30187 -e 30537 >> loadhist87.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 30538 -e 30888 >> loadhist88.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 30889 -e 31239 >> loadhist89.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 31240 -e 31590 >> loadhist90.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 31591 -e 31941 >> loadhist91.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 31942 -e 32292 >> loadhist92.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 32293 -e 32643 >> loadhist93.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 32644 -e 32994 >> loadhist94.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 32995 -e 33345 >> loadhist95.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 33346 -e 33696 >> loadhist96.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 33697 -e 34047 >> loadhist97.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 34048 -e 34398 >> loadhist98.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 34399 -e 34749 >> loadhist99.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 34750 -e 35100 >> loadhist100.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 35101 -e 35451 >> loadhist101.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 35452 -e 35802 >> loadhist102.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 35803 -e 36153 >> loadhist103.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 36154 -e 36504 >> loadhist104.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 36505 -e 36855 >> loadhist105.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 36856 -e 37206 >> loadhist106.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 37207 -e 37557 >> loadhist107.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 37558 -e 37908 >> loadhist108.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 37909 -e 38259 >> loadhist109.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 38260 -e 38610 >> loadhist110.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 38611 -e 38961 >> loadhist111.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 38962 -e 39312 >> loadhist112.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 39313 -e 39664 >> loadhist113.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 39665 -e 40016 >> loadhist114.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 40017 -e 40368 >> loadhist115.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 40369 -e 40720 >> loadhist116.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 40721 -e 41072 >> loadhist117.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 41073 -e 41424 >> loadhist118.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 41425 -e 41776 >> loadhist119.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 41777 -e 42128 >> loadhist120.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 42129 -e 42480 >> loadhist121.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 42481 -e 42832 >> loadhist122.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 42833 -e 43184 >> loadhist123.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 43185 -e 43536 >> loadhist124.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 43537 -e 43888 >> loadhist125.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 43889 -e 44240 >> loadhist126.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 44241 -e 44592 >> loadhist127.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 44593 -e 44944 >> loadhist128.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 44945 -e 45296 >> loadhist129.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 45297 -e 45648 >> loadhist130.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 45649 -e 46000 >> loadhist131.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 46001 -e 46352 >> loadhist132.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 46353 -e 46704 >> loadhist133.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 46705 -e 47056 >> loadhist134.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 47057 -e 47408 >> loadhist135.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 47409 -e 47760 >> loadhist136.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 47761 -e 48112 >> loadhist137.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 48113 -e 48464 >> loadhist138.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 48465 -e 48816 >> loadhist139.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 48817 -e 49168 >> loadhist140.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 49169 -e 49520 >> loadhist141.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 49521 -e 49872 >> loadhist142.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 49873 -e 50224 >> loadhist143.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 50225 -e 50576 >> loadhist144.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 50577 -e 50928 >> loadhist145.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 50929 -e 51280 >> loadhist146.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 51281 -e 51632 >> loadhist147.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 51633 -e 51984 >> loadhist148.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 51985 -e 52336 >> loadhist149.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 52337 -e 52688 >> loadhist150.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 52689 -e 53040 >> loadhist151.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 53041 -e 53392 >> loadhist152.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 53393 -e 53744 >> loadhist153.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 53745 -e 54096 >> loadhist154.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 54097 -e 54448 >> loadhist155.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -h  -b 54449 -e 54800 >> loadhist156.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 54801 -e 55152 >> loadhist157.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 55153 -e 55504 >> loadhist158.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 55505 -e 55856 >> loadhist159.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 55857 -e 56208 >> loadhist160.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 56209 -e 56560 >> loadhist161.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 56561 -e 56912 >> loadhist162.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 56913 -e 57264 >> loadhist163.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 57265 -e 57616 >> loadhist164.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 57617 -e 57968 >> loadhist165.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 57969 -e 58320 >> loadhist166.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 58321 -e 58672 >> loadhist167.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 58673 -e 59024 >> loadhist168.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 59025 -e 59376 >> loadhist169.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 59377 -e 59728 >> loadhist170.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 59729 -e 60080 >> loadhist171.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 60081 -e 60432 >> loadhist172.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 60433 -e 60784 >> loadhist173.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 60785 -e 61136 >> loadhist174.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 61137 -e 61488 >> loadhist175.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 61489 -e 61840 >> loadhist176.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 61841 -e 62192 >> loadhist177.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 62193 -e 62544 >> loadhist178.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 62545 -e 62896 >> loadhist179.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 62897 -e 63248 >> loadhist180.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 63249 -e 63600 >> loadhist181.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 63601 -e 63952 >> loadhist182.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 63953 -e 64304 >> loadhist183.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 64305 -e 64656 >> loadhist184.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 64657 -e 65008 >> loadhist185.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 65009 -e 65360 >> loadhist186.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 65361 -e 65712 >> loadhist187.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 65713 -e 66064 >> loadhist188.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 66065 -e 66416 >> loadhist189.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 66417 -e 66768 >> loadhist190.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 66769 -e 67120 >> loadhist191.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 67121 -e 67472 >> loadhist192.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 67473 -e 67824 >> loadhist193.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 67825 -e 68176 >> loadhist194.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 68177 -e 68528 >> loadhist195.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 68529 -e 68880 >> loadhist196.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 68881 -e 69232 >> loadhist197.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 69233 -e 69584 >> loadhist198.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 69585 -e 69936 >> loadhist199.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 69937 -e 70288 >> loadhist200.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 70289 -e 70640 >> loadhist201.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 70641 -e 70992 >> loadhist202.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 70993 -e 71344 >> loadhist203.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 71345 -e 71696 >> loadhist204.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 71697 -e 72048 >> loadhist205.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 72049 -e 72400 >> loadhist206.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 72401 -e 72752 >> loadhist207.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 72753 -e 73104 >> loadhist208.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 73105 -e 73456 >> loadhist209.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 73457 -e 73808 >> loadhist210.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 73809 -e 74160 >> loadhist211.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 74161 -e 74512 >> loadhist212.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 74513 -e 74864 >> loadhist213.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 74865 -e 75216 >> loadhist214.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 75217 -e 75568 >> loadhist215.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 75569 -e 75920 >> loadhist216.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 75921 -e 76272 >> loadhist217.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 76273 -e 76624 >> loadhist218.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 76625 -e 76976 >> loadhist219.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 76977 -e 77328 >> loadhist220.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 77329 -e 77680 >> loadhist221.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 77681 -e 78032 >> loadhist222.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 78033 -e 78384 >> loadhist223.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 78385 -e 78736 >> loadhist224.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 78737 -e 79088 >> loadhist225.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 79089 -e 79440 >> loadhist226.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 79441 -e 79792 >> loadhist227.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 79793 -e 80144 >> loadhist228.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 80145 -e 80496 >> loadhist229.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 80497 -e 80848 >> loadhist230.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 80849 -e 81200 >> loadhist231.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 81201 -e 81552 >> loadhist232.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 81553 -e 81904 >> loadhist233.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 81905 -e 82256 >> loadhist234.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 82257 -e 82608 >> loadhist235.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 82609 -e 82960 >> loadhist236.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 82961 -e 83312 >> loadhist237.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 83313 -e 83664 >> loadhist238.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 83665 -e 84016 >> loadhist239.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 84017 -e 84368 >> loadhist240.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 84369 -e 84720 >> loadhist241.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 84721 -e 85072 >> loadhist242.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -h  -b 85073 -e 85424 >> loadhist243.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 85425 -e 85776 >> loadhist244.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 85777 -e 86128 >> loadhist245.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 86129 -e 86480 >> loadhist246.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 86481 -e 86832 >> loadhist247.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 86833 -e 87184 >> loadhist248.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 87185 -e 87536 >> loadhist249.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 87537 -e 87888 >> loadhist250.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 87889 -e 88240 >> loadhist251.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 88241 -e 88592 >> loadhist252.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 88593 -e 88944 >> loadhist253.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 88945 -e 89296 >> loadhist254.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 89297 -e 89648 >> loadhist255.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -h  -b 89649 -e 90000 >> loadhist256.log 2>&1 &
allprocs="$allprocs ${!}"
error=0
for curproc in $allprocs; do
  wait $curproc
  error=`expr $? + $error`
done
exit `expr $error != 0`
```

loaditem.sh

```
cd $tpcc_bench
$tpcc_load -M $tpcc_scale -i > loaditem.log 2>&1
```

loadnord_node[1..27].sh

```
#created automatically by /export/home/oracle/tpcc_kit_27nodes/scripts/evenload.sh Fri Aug 20 14:42:37 PDT 2010
rm -f loadnord*.log
cd $tpcc_bench
allprocs=
$tpcc_load -M 2430000 -n  -b 1 -e 351 >> loadnord1.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 352 -e 702 >> loadnord2.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 703 -e 1053 >> loadnord3.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 1054 -e 1404 >> loadnord4.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 1405 -e 1755 >> loadnord5.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 1756 -e 2106 >> loadnord6.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 2107 -e 2457 >> loadnord7.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 2458 -e 2808 >> loadnord8.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 2809 -e 3159 >> loadnord9.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 3160 -e 3510 >> loadnord10.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 3511 -e 3861 >> loadnord11.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 3862 -e 4212 >> loadnord12.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 4213 -e 4563 >> loadnord13.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 4564 -e 4914 >> loadnord14.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 4915 -e 5265 >> loadnord15.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 5266 -e 5616 >> loadnord16.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 5617 -e 5967 >> loadnord17.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 5968 -e 6318 >> loadnord18.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 6319 -e 6669 >> loadnord19.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 6670 -e 7020 >> loadnord20.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 7021 -e 7371 >> loadnord21.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 7372 -e 7722 >> loadnord22.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 7723 -e 8073 >> loadnord23.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 8074 -e 8424 >> loadnord24.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 8425 -e 8775 >> loadnord25.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 8776 -e 9126 >> loadnord26.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 9127 -e 9477 >> loadnord27.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 9478 -e 9828 >> loadnord28.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 9829 -e 10179 >> loadnord29.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 10180 -e 10530 >> loadnord30.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 10531 -e 10881 >> loadnord31.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 10882 -e 11232 >> loadnord32.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 11233 -e 11583 >> loadnord33.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 11584 -e 11934 >> loadnord34.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 11935 -e 12285 >> loadnord35.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 12286 -e 12636 >> loadnord36.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 12637 -e 12987 >> loadnord37.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 12988 -e 13338 >> loadnord38.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 13339 -e 13689 >> loadnord39.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 13690 -e 14040 >> loadnord40.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 14041 -e 14391 >> loadnord41.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 14392 -e 14742 >> loadnord42.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 14743 -e 15093 >> loadnord43.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 15094 -e 15444 >> loadnord44.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 15445 -e 15795 >> loadnord45.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 15796 -e 16146 >> loadnord46.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 16147 -e 16497 >> loadnord47.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 16498 -e 16848 >> loadnord48.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 16849 -e 17199 >> loadnord49.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 17200 -e 17550 >> loadnord50.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 17551 -e 17901 >> loadnord51.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 17902 -e 18252 >> loadnord52.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 18253 -e 18603 >> loadnord53.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 18604 -e 18954 >> loadnord54.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 18955 -e 19305 >> loadnord55.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 19306 -e 19656 >> loadnord56.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 19657 -e 20007 >> loadnord57.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 20008 -e 20358 >> loadnord58.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 20359 -e 20709 >> loadnord59.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 20710 -e 21060 >> loadnord60.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 21061 -e 21411 >> loadnord61.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 21412 -e 21762 >> loadnord62.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 21763 -e 22113 >> loadnord63.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 22114 -e 22464 >> loadnord64.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -n  -b 22465 -e 22815 >> loadnord65.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 22816 -e 23166 >> loadnord66.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 23167 -e 23517 >> loadnord67.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 23518 -e 23868 >> loadnord68.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 23869 -e 24219 >> loadnord69.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 24220 -e 24570 >> loadnord70.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 24571 -e 24921 >> loadnord71.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 24922 -e 25272 >> loadnord72.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 25273 -e 25623 >> loadnord73.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 25624 -e 25974 >> loadnord74.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 25975 -e 26325 >> loadnord75.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 26326 -e 26676 >> loadnord76.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 26677 -e 27027 >> loadnord77.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 27028 -e 27378 >> loadnord78.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 27379 -e 27729 >> loadnord79.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 27730 -e 28080 >> loadnord80.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 28081 -e 28431 >> loadnord81.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 28432 -e 28782 >> loadnord82.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 28783 -e 29133 >> loadnord83.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 29134 -e 29484 >> loadnord84.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 29485 -e 29835 >> loadnord85.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 29836 -e 30186 >> loadnord86.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 30187 -e 30537 >> loadnord87.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 30538 -e 30888 >> loadnord88.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 30889 -e 31239 >> loadnord89.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 31240 -e 31590 >> loadnord90.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 31591 -e 31941 >> loadnord91.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 31942 -e 32292 >> loadnord92.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 32293 -e 32643 >> loadnord93.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 32644 -e 32994 >> loadnord94.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 32995 -e 33345 >> loadnord95.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 33346 -e 33696 >> loadnord96.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 33697 -e 34047 >> loadnord97.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 34048 -e 34398 >> loadnord98.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 34399 -e 34749 >> loadnord99.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 34750 -e 35100 >> loadnord100.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 35101 -e 35451 >> loadnord101.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 35452 -e 35802 >> loadnord102.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 35803 -e 36153 >> loadnord103.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 36154 -e 36504 >> loadnord104.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 36505 -e 36855 >> loadnord105.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 36856 -e 37206 >> loadnord106.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 37207 -e 37557 >> loadnord107.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 37558 -e 37908 >> loadnord108.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 37909 -e 38259 >> loadnord109.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 38260 -e 38610 >> loadnord110.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 38611 -e 38961 >> loadnord111.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 38962 -e 39312 >> loadnord112.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 39313 -e 39664 >> loadnord113.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 39665 -e 40016 >> loadnord114.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 40017 -e 40368 >> loadnord115.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 40369 -e 40720 >> loadnord116.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 40721 -e 41072 >> loadnord117.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 41073 -e 41424 >> loadnord118.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 41425 -e 41776 >> loadnord119.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 41777 -e 42128 >> loadnord120.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 42129 -e 42480 >> loadnord121.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 42481 -e 42832 >> loadnord122.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 42833 -e 43184 >> loadnord123.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 43185 -e 43536 >> loadnord124.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 43537 -e 43888 >> loadnord125.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 43889 -e 44240 >> loadnord126.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 44241 -e 44592 >> loadnord127.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 44593 -e 44944 >> loadnord128.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 44945 -e 45296 >> loadnord129.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 45297 -e 45648 >> loadnord130.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 45649 -e 46000 >> loadnord131.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 46001 -e 46352 >> loadnord132.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 46353 -e 46704 >> loadnord133.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 46705 -e 47056 >> loadnord134.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 47057 -e 47408 >> loadnord135.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 47409 -e 47760 >> loadnord136.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 47761 -e 48112 >> loadnord137.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 48113 -e 48464 >> loadnord138.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 48465 -e 48816 >> loadnord139.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 48817 -e 49168 >> loadnord140.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 49169 -e 49520 >> loadnord141.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 49521 -e 49872 >> loadnord142.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 49873 -e 50224 >> loadnord143.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 50225 -e 50576 >> loadnord144.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 50577 -e 50928 >> loadnord145.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 50929 -e 51280 >> loadnord146.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 51281 -e 51632 >> loadnord147.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 51633 -e 51984 >> loadnord148.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 51985 -e 52336 >> loadnord149.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 52337 -e 52688 >> loadnord150.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 52689 -e 53040 >> loadnord151.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -n  -b 53041 -e 53392 >> loadnord152.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 53393 -e 53744 >> loadnord153.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 53745 -e 54096 >> loadnord154.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 54097 -e 54448 >> loadnord155.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 54449 -e 54800 >> loadnord156.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 54801 -e 55152 >> loadnord157.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 55153 -e 55504 >> loadnord158.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 55505 -e 55856 >> loadnord159.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 55857 -e 56208 >> loadnord160.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 56209 -e 56560 >> loadnord161.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 56561 -e 56912 >> loadnord162.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 56913 -e 57264 >> loadnord163.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 57265 -e 57616 >> loadnord164.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 57617 -e 57968 >> loadnord165.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 57969 -e 58320 >> loadnord166.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 58321 -e 58672 >> loadnord167.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 58673 -e 59024 >> loadnord168.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 59025 -e 59376 >> loadnord169.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 59377 -e 59728 >> loadnord170.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 59729 -e 60080 >> loadnord171.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 60081 -e 60432 >> loadnord172.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 60433 -e 60784 >> loadnord173.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 60785 -e 61136 >> loadnord174.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 61137 -e 61488 >> loadnord175.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 61489 -e 61840 >> loadnord176.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 61841 -e 62192 >> loadnord177.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 62193 -e 62544 >> loadnord178.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 62545 -e 62896 >> loadnord179.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 62897 -e 63248 >> loadnord180.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 63249 -e 63600 >> loadnord181.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 63601 -e 63952 >> loadnord182.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 63953 -e 64304 >> loadnord183.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 64305 -e 64656 >> loadnord184.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 64657 -e 65008 >> loadnord185.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 65009 -e 65360 >> loadnord186.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 65361 -e 65712 >> loadnord187.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 65713 -e 66064 >> loadnord188.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 66065 -e 66416 >> loadnord189.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 66417 -e 66768 >> loadnord190.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 66769 -e 67120 >> loadnord191.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 67121 -e 67472 >> loadnord192.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 67473 -e 67824 >> loadnord193.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 67825 -e 68176 >> loadnord194.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 68177 -e 68528 >> loadnord195.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 68529 -e 68880 >> loadnord196.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 68881 -e 69232 >> loadnord197.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 69233 -e 69584 >> loadnord198.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 69585 -e 69936 >> loadnord199.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 69937 -e 70288 >> loadnord200.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 70289 -e 70640 >> loadnord201.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 70641 -e 70992 >> loadnord202.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 70993 -e 71344 >> loadnord203.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 71345 -e 71696 >> loadnord204.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 71697 -e 72048 >> loadnord205.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 72049 -e 72400 >> loadnord206.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 72401 -e 72752 >> loadnord207.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 72753 -e 73104 >> loadnord208.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 73105 -e 73456 >> loadnord209.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 73457 -e 73808 >> loadnord210.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 73809 -e 74160 >> loadnord211.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 74161 -e 74512 >> loadnord212.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 74513 -e 74864 >> loadnord213.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 74865 -e 75216 >> loadnord214.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 75217 -e 75568 >> loadnord215.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 75569 -e 75920 >> loadnord216.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 75921 -e 76272 >> loadnord217.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 76273 -e 76624 >> loadnord218.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 76625 -e 76976 >> loadnord219.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 76977 -e 77328 >> loadnord220.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 77329 -e 77680 >> loadnord221.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 77681 -e 78032 >> loadnord222.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 78033 -e 78384 >> loadnord223.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 78385 -e 78736 >> loadnord224.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 78737 -e 79088 >> loadnord225.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 79089 -e 79440 >> loadnord226.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 79441 -e 79792 >> loadnord227.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 79793 -e 80144 >> loadnord228.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 80145 -e 80496 >> loadnord229.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 80497 -e 80848 >> loadnord230.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 80849 -e 81200 >> loadnord231.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 81201 -e 81552 >> loadnord232.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 81553 -e 81904 >> loadnord233.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 81905 -e 82256 >> loadnord234.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 82257 -e 82608 >> loadnord235.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 82609 -e 82960 >> loadnord236.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 82961 -e 83312 >> loadnord237.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 83313 -e 83664 >> loadnord238.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -n  -b 83665 -e 84016 >> loadnord239.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 84017 -e 84368 >> loadnord240.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 84369 -e 84720 >> loadnord241.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 84721 -e 85072 >> loadnord242.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 85073 -e 85424 >> loadnord243.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 85425 -e 85776 >> loadnord244.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 85777 -e 86128 >> loadnord245.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 86129 -e 86480 >> loadnord246.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 86481 -e 86832 >> loadnord247.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 86833 -e 87184 >> loadnord248.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 87185 -e 87536 >> loadnord249.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 87537 -e 87888 >> loadnord250.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 87889 -e 88240 >> loadnord251.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 88241 -e 88592 >> loadnord252.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 88593 -e 88944 >> loadnord253.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 88945 -e 89296 >> loadnord254.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 89297 -e 89648 >> loadnord255.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -n  -b 89649 -e 90000 >> loadnord256.log 2>&1 &
allprocs="$allprocs ${!}"
error=0
for curproc in $allprocs; do
  wait $curproc
  error=`expr $? + $error`
done
exit `expr $error != 0`
```

loadordordl_node[1..27].sh

```
#created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/evenload.sh Fri Aug 20
14:43:52 PDT 2010
rm -f loadordrordl*.log
cd $tpcc_bench
allprocs=
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy1.dat -b 1 -e 351
>> loadordrordl1.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy2.dat -b 352 -e 702
>> loadordrordl2.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy3.dat -b 703 -e
1053 >> loadordrordl3.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy4.dat -b 1054 -e
1404 >> loadordrordl4.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy5.dat -b 1405 -e
1755 >> loadordrordl5.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy6.dat -b 1756 -e
2106 >> loadordrordl6.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy7.dat -b 2107 -e
2457 >> loadordrordl7.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy8.dat -b 2458 -e
2808 >> loadordrordl8.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy9.dat -b 2809 -e
3159 >> loadordrordl9.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy10.dat -b 3160 -e
3510 >> loadordrordl10.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy11.dat -b 3511 -e
3861 >> loadordrordl11.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy12.dat -b 3862 -e
4212 >> loadordrordl12.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy13.dat -b 4213 -e
4563 >> loadordrordl13.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy14.dat -b 4564 -e
4914 >> loadordrordl14.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy15.dat -b 4915 -e
5265 >> loadordrordl15.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy16.dat -b 5266 -e
5616 >> loadordrordl16.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy17.dat -b 5617 -e
5967 >> loadordrordl17.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy18.dat -b 5968 -e
6318 >> loadordrordl18.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy19.dat -b 6319 -e
6669 >> loadordrordl19.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy20.dat -b 6670 -e
7020 >> loadordrordl20.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy21.dat -b 7021 -e
7371 >> loadordrordl21.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy22.dat -b 7372 -e
7722 >> loadordrordl22.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy23.dat -b 7723 -e
8073 >> loadordrordl23.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy24.dat -b 8074 -e
8424 >> loadordrordl24.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy25.dat -b 8425 -e
8775 >> loadordrordl25.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy26.dat -b 8776 -e
9126 >> loadordrordl26.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy27.dat -b 9127 -e
9477 >> loadordrordl27.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy28.dat -b 9478 -e
9828 >> loadordrordl28.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy29.dat -b 9829 -e
10179 >> loadordrordl29.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy30.dat -b 10180 -e
10530 >> loadordrordl30.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy31.dat -b 10531 -e
10881 >> loadordrordl31.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy32.dat -b 10882 -e
11232 >> loadordrordl32.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy33.dat -b 11233 -e
11583 >> loadordrordl33.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy34.dat -b 11584 -e
11934 >> loadordrordl34.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy35.dat -b 11935 -e
12285 >> loadordrordl35.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy36.dat -b 12286 -e
12636 >> loadordrordl36.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy37.dat -b 12637 -e
12987 >> loadordrordl37.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy38.dat -b 12988 -e
13338 >> loadordrordl38.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy39.dat -b 13339 -e
13689 >> loadordrordl39.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy40.dat -b 13690 -e
14040 >> loadordrordl40.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy41.dat -b 14041 -e
14391 >> loadordrordl41.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy42.dat -b 14392 -e
```

```
14742 >> loadordrordl42.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy43.dat -b 14743 -e
15093 >> loadordrordl43.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy44.dat -b 15094 -e
15444 >> loadordrordl44.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy45.dat -b 15445 -e
15795 >> loadordrordl45.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy46.dat -b 15796 -e
16146 >> loadordrordl46.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy47.dat -b 16147 -e
16497 >> loadordrordl47.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy48.dat -b 16498 -e
16848 >> loadordrordl48.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy49.dat -b 16849 -e
17199 >> loadordrordl49.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy50.dat -b 17200 -e
17550 >> loadordrordl50.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy51.dat -b 17551 -e
17901 >> loadordrordl51.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy52.dat -b 17902 -e
18252 >> loadordrordl52.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy53.dat -b 18253 -e
18603 >> loadordrordl53.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy54.dat -b 18604 -e
18954 >> loadordrordl54.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy55.dat -b 18955 -e
19305 >> loadordrordl55.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy56.dat -b 19306 -e
19656 >> loadordrordl56.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy57.dat -b 19657 -e
20007 >> loadordrordl57.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy58.dat -b 20008 -e
20358 >> loadordrordl58.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy59.dat -b 20359 -e
20709 >> loadordrordl59.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy60.dat -b 20710 -e
21060 >> loadordrordl60.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy61.dat -b 21061 -e
21411 >> loadordrordl61.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy62.dat -b 21412 -e
21762 >> loadordrordl62.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy63.dat -b 21763 -e
22113 >> loadordrordl63.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy64.dat -b 22114 -e
22464 >> loadordrordl64.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy65.dat -b 22465 -e
22815 >> loadordrordl65.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy66.dat -b 22816 -e
23166 >> loadordrordl66.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy67.dat -b 23167 -e
23517 >> loadordrordl67.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy68.dat -b 23518 -e
23868 >> loadordrordl68.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy69.dat -b 23869 -e
24219 >> loadordrordl69.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy70.dat -b 24220 -e
24570 >> loadordrordl70.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy71.dat -b 24571 -e
24921 >> loadordrordl71.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy72.dat -b 24922 -e
25272 >> loadordrordl72.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy73.dat -b 25273 -e
25623 >> loadordrordl73.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy74.dat -b 25624 -e
25974 >> loadordrordl74.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy75.dat -b 25975 -e
26325 >> loadordrordl75.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy76.dat -b 26326 -e
26676 >> loadordrordl76.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy77.dat -b 26677 -e
27027 >> loadordrordl77.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy78.dat -b 27028 -e
27378 >> loadordrordl78.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy79.dat -b 27379 -e
27729 >> loadordrordl79.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy80.dat -b 27730 -e
28080 >> loadordrordl80.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy81.dat -b 28081 -e
28431 >> loadordrordl81.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy82.dat -b 28432 -e
28782 >> loadordrordl82.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy83.dat -b 28783 -e
29133 >> loadordrordl83.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy84.dat -b 29134 -e
29484 >> loadordrordl84.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy85.dat -b 29485 -e
29835 >> loadordrordl85.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy86.dat -b 29836 -e
30186 >> loadordrordl86.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy87.dat -b 30187 -e
30537 >> loadordrordl87.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy88.dat -b 30538 -e
30888 >> loadordrordl88.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy89.dat -b 30889 -e
31239 >> loadordrordl89.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy90.dat -b 31240 -e
31590 >> loadordrordl90.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy91.dat -b 31591 -e
31941 >> loadordrordl91.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy92.dat -b 31942 -e
32292 >> loadordrordl92.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy93.dat -b 32293 -e
32643 >> loadordrordl93.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy94.dat -b 32644 -e
32994 >> loadordrordl94.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy95.dat -b 32995 -e
33345 >> loadordrordl95.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy96.dat -b 33346 -e
33696 >> loadordrordl96.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy97.dat -b 33697 -e
34047 >> loadordrordl97.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy98.dat -b 34048 -e
34398 >> loadordrordl98.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy99.dat -b 34399 -e
34749 >> loadordrordl99.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy100.dat -b 34750
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-e 35100 >> loadordrordl100.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy101.dat -b 35101
-e 35451 >> loadordrordl101.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy102.dat -b 35452
-e 35802 >> loadordrordl102.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy103.dat -b 35803
-e 36153 >> loadordrordl103.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy104.dat -b 36154
-e 36504 >> loadordrordl104.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy105.dat -b 36505
-e 36855 >> loadordrordl105.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy106.dat -b 36856
-e 37206 >> loadordrordl106.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy107.dat -b 37207
-e 37557 >> loadordrordl107.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy108.dat -b 37558
-e 37908 >> loadordrordl108.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy109.dat -b 37909
-e 38259 >> loadordrordl109.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy110.dat -b 38260
-e 38610 >> loadordrordl110.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy111.dat -b 38611 -e
38961 >> loadordrordl111.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy112.dat -b 38962
-e 39312 >> loadordrordl112.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy113.dat -b 39313
-e 39664 >> loadordrordl113.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy114.dat -b 39665
-e 40016 >> loadordrordl114.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy115.dat -b 40017
-e 40368 >> loadordrordl115.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy116.dat -b 40369
-e 40720 >> loadordrordl116.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy117.dat -b 40721
-e 41072 >> loadordrordl117.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy118.dat -b 41073
-e 41424 >> loadordrordl118.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy119.dat -b 41425
-e 41776 >> loadordrordl119.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy120.dat -b 41777
-e 42128 >> loadordrordl120.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy121.dat -b 42129
-e 42480 >> loadordrordl121.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy122.dat -b 42481
-e 42832 >> loadordrordl122.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy123.dat -b 42833
-e 43184 >> loadordrordl123.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy124.dat -b 43185
-e 43536 >> loadordrordl124.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy125.dat -b 43537
-e 43888 >> loadordrordl125.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy126.dat -b 43889
-e 44240 >> loadordrordl126.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy127.dat -b 44241
-e 44592 >> loadordrordl127.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy128.dat -b 44593
-e 44944 >> loadordrordl128.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy129.dat -b 44945
-e 45296 >> loadordrordl129.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy130.dat -b 45297
-e 45648 >> loadordrordl130.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy131.dat -b 45649
-e 46000 >> loadordrordl131.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy132.dat -b 46001
-e 46352 >> loadordrordl132.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy133.dat -b 46353
-e 46704 >> loadordrordl133.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy134.dat -b 46705
-e 47056 >> loadordrordl134.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy135.dat -b 47057
-e 47408 >> loadordrordl135.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy136.dat -b 47409
-e 47760 >> loadordrordl136.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy137.dat -b 47761
-e 48112 >> loadordrordl137.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy138.dat -b 48113
-e 48464 >> loadordrordl138.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy139.dat -b 48465
-e 48816 >> loadordrordl139.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy140.dat -b 48817
-e 49168 >> loadordrordl140.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy141.dat -b 49169
-e 49520 >> loadordrordl141.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy142.dat -b 49521
-e 49872 >> loadordrordl142.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy143.dat -b 49873
-e 50224 >> loadordrordl143.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy144.dat -b 50225
-e 50576 >> loadordrordl144.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy145.dat -b 50577
-e 50928 >> loadordrordl145.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy146.dat -b 50929
-e 51280 >> loadordrordl146.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy147.dat -b 51281
-e 51632 >> loadordrordl147.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy148.dat -b 51633
-e 51984 >> loadordrordl148.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy149.dat -b 51985
-e 52336 >> loadordrordl149.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy150.dat -b 52337
-e 52688 >> loadordrordl150.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy151.dat -b 52689
-e 53040 >> loadordrordl151.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy152.dat -b 53041
-e 53392 >> loadordrordl152.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy153.dat -b 53393
-e 53744 >> loadordrordl153.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy154.dat -b 53745
-e 54096 >> loadordrordl154.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy155.dat -b 54097
-e 54448 >> loadordrordl155.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy156.dat -b 54449
-e 54800 >> loadordrordl156.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy157.dat -b 54801
-e 55152 >> loadordrordl157.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy158.dat -b 55153
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-e 55504 >> loadordrordl158.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy159.dat -b 55505
-e 55856 >> loadordrordl159.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy160.dat -b 55857
-e 56208 >> loadordrordl160.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy161.dat -b 56209
-e 56560 >> loadordrordl161.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy162.dat -b 56561
-e 56912 >> loadordrordl162.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy163.dat -b 56913
-e 57264 >> loadordrordl163.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy164.dat -b 57265
-e 57616 >> loadordrordl164.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy165.dat -b 57617
-e 57968 >> loadordrordl165.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy166.dat -b 57969
-e 58320 >> loadordrordl166.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy167.dat -b 58321
-e 58672 >> loadordrordl167.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy168.dat -b 58673
-e 59024 >> loadordrordl168.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy169.dat -b 59025
-e 59376 >> loadordrordl169.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy170.dat -b 59377
-e 59728 >> loadordrordl170.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy171.dat -b 59729
-e 60080 >> loadordrordl171.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy172.dat -b 60081
-e 60432 >> loadordrordl172.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy173.dat -b 60433
-e 60784 >> loadordrordl173.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy174.dat -b 60785
-e 61136 >> loadordrordl174.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy175.dat -b 61137
-e 61488 >> loadordrordl175.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy176.dat -b 61489
-e 61840 >> loadordrordl176.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy177.dat -b 61841
-e 62192 >> loadordrordl177.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy178.dat -b 62193
-e 62544 >> loadordrordl178.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy179.dat -b 62545
-e 62896 >> loadordrordl179.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy180.dat -b 62897
-e 63248 >> loadordrordl180.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy181.dat -b 63249
-e 63600 >> loadordrordl181.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy182.dat -b 63601
-e 63952 >> loadordrordl182.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy183.dat -b 63953
-e 64304 >> loadordrordl183.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy184.dat -b 64305
-e 64656 >> loadordrordl184.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy185.dat -b 64657
-e 65008 >> loadordrordl185.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy186.dat -b 65009
-e 65360 >> loadordrordl186.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy187.dat -b 65361
-e 65712 >> loadordrordl187.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy188.dat -b 65713
-e 66064 >> loadordrordl188.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy189.dat -b 66065
-e 66416 >> loadordrordl189.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy190.dat -b 66417
-e 66768 >> loadordrordl190.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy191.dat -b 66769
-e 67120 >> loadordrordl191.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy192.dat -b 67121
-e 67472 >> loadordrordl192.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy193.dat -b 67473
-e 67824 >> loadordrordl193.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy194.dat -b 67825
-e 68176 >> loadordrordl194.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy195.dat -b 68177
-e 68528 >> loadordrordl195.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy196.dat -b 68529
-e 68880 >> loadordrordl196.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy197.dat -b 68881
-e 69232 >> loadordrordl197.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy198.dat -b 69233
-e 69584 >> loadordrordl198.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy199.dat -b 69585
-e 69936 >> loadordrordl199.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy200.dat -b 69937
-e 70288 >> loadordrordl200.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy201.dat -b 70289
-e 70640 >> loadordrordl201.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy202.dat -b 70641
-e 70992 >> loadordrordl202.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy203.dat -b 70993
-e 71344 >> loadordrordl203.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy204.dat -b 71345
-e 71696 >> loadordrordl204.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy205.dat -b 71697
-e 72048 >> loadordrordl205.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy206.dat -b 72049
-e 72400 >> loadordrordl206.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy207.dat -b 72401
-e 72752 >> loadordrordl207.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy208.dat -b 72753
-e 73104 >> loadordrordl208.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy209.dat -b 73105
-e 73456 >> loadordrordl209.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy210.dat -b 73457
-e 73808 >> loadordrordl210.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy211.dat -b 73809
-e 74160 >> loadordrordl211.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy212.dat -b 74161
-e 74512 >> loadordrordl212.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy213.dat -b 74513
-e 74864 >> loadordrordl213.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy214.dat -b 74865
-e 75216 >> loadordrordl214.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy215.dat -b 75217
-e 75568 >> loadordrordl215.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy216.dat -b 75569
```

```
-e 75920 >> loadordrordl216.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy217.dat -b 75921
-e 76272 >> loadordrordl217.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy218.dat -b 76273
-e 76624 >> loadordrordl218.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy219.dat -b 76625
-e 76976 >> loadordrordl219.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy220.dat -b 76977
-e 77328 >> loadordrordl220.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy221.dat -b 77329
-e 77680 >> loadordrordl221.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy222.dat -b 77681
-e 78032 >> loadordrordl222.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy223.dat -b 78033
-e 78384 >> loadordrordl223.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy224.dat -b 78385
-e 78736 >> loadordrordl224.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy225.dat -b 78737
-e 79088 >> loadordrordl225.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy226.dat -b 79089
-e 79440 >> loadordrordl226.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy227.dat -b 79441
-e 79792 >> loadordrordl227.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy228.dat -b 79793
-e 80144 >> loadordrordl228.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy229.dat -b 80145
-e 80496 >> loadordrordl229.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy230.dat -b 80497
-e 80848 >> loadordrordl230.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy231.dat -b 80849
-e 81200 >> loadordrordl231.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy232.dat -b 81201
-e 81552 >> loadordrordl232.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy233.dat -b 81553
-e 81904 >> loadordrordl233.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy234.dat -b 81905
-e 82256 >> loadordrordl234.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy235.dat -b 82257
-e 82608 >> loadordrordl235.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy236.dat -b 82609
-e 82960 >> loadordrordl236.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy237.dat -b 82961
-e 83312 >> loadordrordl237.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy238.dat -b 83313
-e 83664 >> loadordrordl238.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy239.dat -b 83665
-e 84016 >> loadordrordl239.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy240.dat -b 84017
-e 84368 >> loadordrordl240.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy241.dat -b 84369
-e 84720 >> loadordrordl241.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy242.dat -b 84721
-e 85072 >> loadordrordl242.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy243.dat -b 85073
-e 85424 >> loadordrordl243.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy244.dat -b 85425
-e 85776 >> loadordrordl244.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy245.dat -b 85777
-e 86128 >> loadordrordl245.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy246.dat -b 86129
-e 86480 >> loadordrordl246.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy247.dat -b 86481
-e 86832 >> loadordrordl247.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy248.dat -b 86833
-e 87184 >> loadordrordl248.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy249.dat -b 87185
-e 87536 >> loadordrordl249.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy250.dat -b 87537
-e 87888 >> loadordrordl250.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy251.dat -b 87889
-e 88240 >> loadordrordl251.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy252.dat -b 88241
-e 88592 >> loadordrordl252.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy253.dat -b 88593
-e 88944 >> loadordrordl253.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy254.dat -b 88945
-e 89296 >> loadordrordl254.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy255.dat -b 89297
-e 89648 >> loadordrordl255.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -o ${tpcc_disks_location}dummy256.dat -b 89649
-e 90000 >> loadordrordl256.log 2>&1 &
allprocs="$allprocs ${!}"
error=0
for curproc in $allprocs; do
  wait $curproc
  error=`expr $? + $error`
done
exit `expr $error != 0`
```

loadstok_node[1..27].sh

```
#created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/evenload.sh Fri Aug 20
14:46:30 PDT 2010
rm -f loadstok*.log
cd $tpcc_bench
allprocs=
$tpcc_load -M 2430000 -S  -b 1 -e 351 >> loadstok1.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 352 -e 702 >> loadstok2.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 703 -e 1053 >> loadstok3.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 1054 -e 1404 >> loadstok4.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 1405 -e 1755 >> loadstok5.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 1756 -e 2106 >> loadstok6.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 2107 -e 2457 >> loadstok7.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 2458 -e 2808 >> loadstok8.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 2809 -e 3159 >> loadstok9.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 3160 -e 3510 >> loadstok10.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 3511 -e 3861 >> loadstok11.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 3862 -e 4212 >> loadstok12.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 4213 -e 4563 >> loadstok13.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 4564 -e 4914 >> loadstok14.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 4915 -e 5265 >> loadstok15.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 5266 -e 5616 >> loadstok16.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 5617 -e 5967 >> loadstok17.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 5968 -e 6318 >> loadstok18.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 6319 -e 6669 >> loadstok19.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -S  -b 6670 -e 7020 >> loadstok20.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 7021 -e 7371 >> loadstok21.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 7372 -e 7722 >> loadstok22.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 7723 -e 8073 >> loadstok23.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 8074 -e 8424 >> loadstok24.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 8425 -e 8775 >> loadstok25.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 8776 -e 9126 >> loadstok26.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 9127 -e 9477 >> loadstok27.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 9478 -e 9828 >> loadstok28.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 9829 -e 10179 >> loadstok29.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 10180 -e 10530 >> loadstok30.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 10531 -e 10881 >> loadstok31.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 10882 -e 11232 >> loadstok32.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 11233 -e 11583 >> loadstok33.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 11584 -e 11934 >> loadstok34.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 11935 -e 12285 >> loadstok35.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 12286 -e 12636 >> loadstok36.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 12637 -e 12987 >> loadstok37.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 12988 -e 13338 >> loadstok38.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 13339 -e 13689 >> loadstok39.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 13690 -e 14040 >> loadstok40.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 14041 -e 14391 >> loadstok41.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 14392 -e 14742 >> loadstok42.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 14743 -e 15093 >> loadstok43.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 15094 -e 15444 >> loadstok44.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 15445 -e 15795 >> loadstok45.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 15796 -e 16146 >> loadstok46.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 16147 -e 16497 >> loadstok47.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 16498 -e 16848 >> loadstok48.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 16849 -e 17199 >> loadstok49.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 17200 -e 17550 >> loadstok50.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 17551 -e 17901 >> loadstok51.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 17902 -e 18252 >> loadstok52.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 18253 -e 18603 >> loadstok53.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 18604 -e 18954 >> loadstok54.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 18955 -e 19305 >> loadstok55.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 19306 -e 19656 >> loadstok56.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 19657 -e 20007 >> loadstok57.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 20008 -e 20358 >> loadstok58.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 20359 -e 20709 >> loadstok59.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 20710 -e 21060 >> loadstok60.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 21061 -e 21411 >> loadstok61.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 21412 -e 21762 >> loadstok62.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 21763 -e 22113 >> loadstok63.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 22114 -e 22464 >> loadstok64.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 22465 -e 22815 >> loadstok65.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 22816 -e 23166 >> loadstok66.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 23167 -e 23517 >> loadstok67.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 23518 -e 23868 >> loadstok68.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 23869 -e 24219 >> loadstok69.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 24220 -e 24570 >> loadstok70.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 24571 -e 24921 >> loadstok71.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 24922 -e 25272 >> loadstok72.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 25273 -e 25623 >> loadstok73.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 25624 -e 25974 >> loadstok74.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 25975 -e 26325 >> loadstok75.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 26326 -e 26676 >> loadstok76.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 26677 -e 27027 >> loadstok77.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 27028 -e 27378 >> loadstok78.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 27379 -e 27729 >> loadstok79.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 27730 -e 28080 >> loadstok80.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 28081 -e 28431 >> loadstok81.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 28432 -e 28782 >> loadstok82.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 28783 -e 29133 >> loadstok83.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 29134 -e 29484 >> loadstok84.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 29485 -e 29835 >> loadstok85.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 29836 -e 30186 >> loadstok86.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 30187 -e 30537 >> loadstok87.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 30538 -e 30888 >> loadstok88.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 30889 -e 31239 >> loadstok89.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 31240 -e 31590 >> loadstok90.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 31591 -e 31941 >> loadstok91.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 31942 -e 32292 >> loadstok92.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 32293 -e 32643 >> loadstok93.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 32644 -e 32994 >> loadstok94.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 32995 -e 33345 >> loadstok95.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 33346 -e 33696 >> loadstok96.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 33697 -e 34047 >> loadstok97.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 34048 -e 34398 >> loadstok98.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 34399 -e 34749 >> loadstok99.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 34750 -e 35100 >> loadstok100.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 35101 -e 35451 >> loadstok101.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 35452 -e 35802 >> loadstok102.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 35803 -e 36153 >> loadstok103.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 36154 -e 36504 >> loadstok104.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 36505 -e 36855 >> loadstok105.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 36856 -e 37206 >> loadstok106.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -S  -b 37207 -e 37557 >> loadstok107.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 37558 -e 37908 >> loadstok108.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 37909 -e 38259 >> loadstok109.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 38260 -e 38610 >> loadstok110.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 38611 -e 38961 >> loadstok111.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 38962 -e 39312 >> loadstok112.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 39313 -e 39664 >> loadstok113.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 39665 -e 40016 >> loadstok114.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 40017 -e 40368 >> loadstok115.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 40369 -e 40720 >> loadstok116.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 40721 -e 41072 >> loadstok117.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 41073 -e 41424 >> loadstok118.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 41425 -e 41776 >> loadstok119.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 41777 -e 42128 >> loadstok120.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 42129 -e 42480 >> loadstok121.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 42481 -e 42832 >> loadstok122.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 42833 -e 43184 >> loadstok123.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 43185 -e 43536 >> loadstok124.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 43537 -e 43888 >> loadstok125.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 43889 -e 44240 >> loadstok126.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 44241 -e 44592 >> loadstok127.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 44593 -e 44944 >> loadstok128.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 44945 -e 45296 >> loadstok129.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 45297 -e 45648 >> loadstok130.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 45649 -e 46000 >> loadstok131.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 46001 -e 46352 >> loadstok132.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 46353 -e 46704 >> loadstok133.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 46705 -e 47056 >> loadstok134.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 47057 -e 47408 >> loadstok135.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 47409 -e 47760 >> loadstok136.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 47761 -e 48112 >> loadstok137.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 48113 -e 48464 >> loadstok138.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 48465 -e 48816 >> loadstok139.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 48817 -e 49168 >> loadstok140.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 49169 -e 49520 >> loadstok141.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 49521 -e 49872 >> loadstok142.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 49873 -e 50224 >> loadstok143.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 50225 -e 50576 >> loadstok144.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 50577 -e 50928 >> loadstok145.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 50929 -e 51280 >> loadstok146.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 51281 -e 51632 >> loadstok147.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 51633 -e 51984 >> loadstok148.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 51985 -e 52336 >> loadstok149.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 52337 -e 52688 >> loadstok150.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 52689 -e 53040 >> loadstok151.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 53041 -e 53392 >> loadstok152.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 53393 -e 53744 >> loadstok153.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 53745 -e 54096 >> loadstok154.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 54097 -e 54448 >> loadstok155.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 54449 -e 54800 >> loadstok156.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 54801 -e 55152 >> loadstok157.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 55153 -e 55504 >> loadstok158.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 55505 -e 55856 >> loadstok159.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 55857 -e 56208 >> loadstok160.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 56209 -e 56560 >> loadstok161.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 56561 -e 56912 >> loadstok162.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 56913 -e 57264 >> loadstok163.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 57265 -e 57616 >> loadstok164.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 57617 -e 57968 >> loadstok165.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 57969 -e 58320 >> loadstok166.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 58321 -e 58672 >> loadstok167.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 58673 -e 59024 >> loadstok168.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 59025 -e 59376 >> loadstok169.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 59377 -e 59728 >> loadstok170.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 59729 -e 60080 >> loadstok171.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 60081 -e 60432 >> loadstok172.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 60433 -e 60784 >> loadstok173.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 60785 -e 61136 >> loadstok174.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 61137 -e 61488 >> loadstok175.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 61489 -e 61840 >> loadstok176.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 61841 -e 62192 >> loadstok177.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 62193 -e 62544 >> loadstok178.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 62545 -e 62896 >> loadstok179.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 62897 -e 63248 >> loadstok180.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 63249 -e 63600 >> loadstok181.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 63601 -e 63952 >> loadstok182.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 63953 -e 64304 >> loadstok183.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 64305 -e 64656 >> loadstok184.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 64657 -e 65008 >> loadstok185.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 65009 -e 65360 >> loadstok186.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 65361 -e 65712 >> loadstok187.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 65713 -e 66064 >> loadstok188.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 66065 -e 66416 >> loadstok189.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 66417 -e 66768 >> loadstok190.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 66769 -e 67120 >> loadstok191.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 67121 -e 67472 >> loadstok192.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 67473 -e 67824 >> loadstok193.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -S  -b 67825 -e 68176 >> loadstok194.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 68177 -e 68528 >> loadstok195.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 68529 -e 68880 >> loadstok196.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 68881 -e 69232 >> loadstok197.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 69233 -e 69584 >> loadstok198.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 69585 -e 69936 >> loadstok199.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 69937 -e 70288 >> loadstok200.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 70289 -e 70640 >> loadstok201.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 70641 -e 70992 >> loadstok202.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 70993 -e 71344 >> loadstok203.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 71345 -e 71696 >> loadstok204.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 71697 -e 72048 >> loadstok205.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 72049 -e 72400 >> loadstok206.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 72401 -e 72752 >> loadstok207.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 72753 -e 73104 >> loadstok208.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 73105 -e 73456 >> loadstok209.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 73457 -e 73808 >> loadstok210.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 73809 -e 74160 >> loadstok211.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 74161 -e 74512 >> loadstok212.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 74513 -e 74864 >> loadstok213.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 74865 -e 75216 >> loadstok214.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 75217 -e 75568 >> loadstok215.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 75569 -e 75920 >> loadstok216.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 75921 -e 76272 >> loadstok217.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 76273 -e 76624 >> loadstok218.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 76625 -e 76976 >> loadstok219.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 76977 -e 77328 >> loadstok220.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 77329 -e 77680 >> loadstok221.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 77681 -e 78032 >> loadstok222.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 78033 -e 78384 >> loadstok223.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 78385 -e 78736 >> loadstok224.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 78737 -e 79088 >> loadstok225.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 79089 -e 79440 >> loadstok226.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 79441 -e 79792 >> loadstok227.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 79793 -e 80144 >> loadstok228.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 80145 -e 80496 >> loadstok229.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 80497 -e 80848 >> loadstok230.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 80849 -e 81200 >> loadstok231.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 81201 -e 81552 >> loadstok232.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 81553 -e 81904 >> loadstok233.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 81905 -e 82256 >> loadstok234.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 82257 -e 82608 >> loadstok235.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 82609 -e 82960 >> loadstok236.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 82961 -e 83312 >> loadstok237.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 83313 -e 83664 >> loadstok238.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 83665 -e 84016 >> loadstok239.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 84017 -e 84368 >> loadstok240.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 84369 -e 84720 >> loadstok241.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 84721 -e 85072 >> loadstok242.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 85073 -e 85424 >> loadstok243.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 85425 -e 85776 >> loadstok244.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 85777 -e 86128 >> loadstok245.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 86129 -e 86480 >> loadstok246.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 86481 -e 86832 >> loadstok247.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 86833 -e 87184 >> loadstok248.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 87185 -e 87536 >> loadstok249.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 87537 -e 87888 >> loadstok250.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 87889 -e 88240 >> loadstok251.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 88241 -e 88592 >> loadstok252.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 88593 -e 88944 >> loadstok253.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 88945 -e 89296 >> loadstok254.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 89297 -e 89648 >> loadstok255.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -S  -b 89649 -e 90000 >> loadstok256.log 2>&1 &
allprocs="$allprocs ${!}"
error=0
for curproc in $allprocs; do
  wait $curproc
  error=`expr $? + $error`
done
exit `expr $error != 0`
```

loadware_node[1..27].sh

```
#created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/evenload.sh Fri Aug 20
14:38:55 PDT 2010
rm -f loadware*.log
cd $tpcc_bench
allprocs=
$tpcc_load -M 2430000 -w  -b 1 -e 351 >> loadware1.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 352 -e 702 >> loadware2.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 703 -e 1053 >> loadware3.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 1054 -e 1404 >> loadware4.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 1405 -e 1755 >> loadware5.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 1756 -e 2106 >> loadware6.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 2107 -e 2457 >> loadware7.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 2458 -e 2808 >> loadware8.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 2809 -e 3159 >> loadware9.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 3160 -e 3510 >> loadware10.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 3511 -e 3861 >> loadware11.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 3862 -e 4212 >> loadware12.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 4213 -e 4563 >> loadware13.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 4564 -e 4914 >> loadware14.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 4915 -e 5265 >> loadware15.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 5266 -e 5616 >> loadware16.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 5617 -e 5967 >> loadware17.log 2>&1 &
allprocs="$allprocs ${!}"
```

```
$tpcc_load -M 2430000 -w  -b 5968 -e 6318 >> loadware18.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 6319 -e 6669 >> loadware19.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 6670 -e 7020 >> loadware20.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 7021 -e 7371 >> loadware21.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 7372 -e 7722 >> loadware22.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 7723 -e 8073 >> loadware23.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 8074 -e 8424 >> loadware24.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 8425 -e 8775 >> loadware25.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 8776 -e 9126 >> loadware26.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 9127 -e 9477 >> loadware27.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 9478 -e 9828 >> loadware28.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 9829 -e 10179 >> loadware29.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 10180 -e 10530 >> loadware30.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 10531 -e 10881 >> loadware31.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 10882 -e 11232 >> loadware32.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 11233 -e 11583 >> loadware33.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 11584 -e 11934 >> loadware34.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 11935 -e 12285 >> loadware35.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 12286 -e 12636 >> loadware36.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 12637 -e 12987 >> loadware37.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 12988 -e 13338 >> loadware38.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 13339 -e 13689 >> loadware39.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 13690 -e 14040 >> loadware40.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 14041 -e 14391 >> loadware41.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 14392 -e 14742 >> loadware42.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 14743 -e 15093 >> loadware43.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 15094 -e 15444 >> loadware44.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 15445 -e 15795 >> loadware45.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 15796 -e 16146 >> loadware46.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 16147 -e 16497 >> loadware47.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 16498 -e 16848 >> loadware48.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 16849 -e 17199 >> loadware49.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 17200 -e 17550 >> loadware50.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 17551 -e 17901 >> loadware51.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 17902 -e 18252 >> loadware52.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 18253 -e 18603 >> loadware53.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 18604 -e 18954 >> loadware54.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 18955 -e 19305 >> loadware55.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 19306 -e 19656 >> loadware56.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 19657 -e 20007 >> loadware57.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 20008 -e 20358 >> loadware58.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 20359 -e 20709 >> loadware59.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 20710 -e 21060 >> loadware60.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 21061 -e 21411 >> loadware61.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 21412 -e 21762 >> loadware62.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 21763 -e 22113 >> loadware63.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 22114 -e 22464 >> loadware64.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 22465 -e 22815 >> loadware65.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 22816 -e 23166 >> loadware66.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 23167 -e 23517 >> loadware67.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 23518 -e 23868 >> loadware68.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 23869 -e 24219 >> loadware69.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 24220 -e 24570 >> loadware70.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 24571 -e 24921 >> loadware71.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 24922 -e 25272 >> loadware72.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 25273 -e 25623 >> loadware73.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 25624 -e 25974 >> loadware74.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 25975 -e 26325 >> loadware75.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 26326 -e 26676 >> loadware76.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 26677 -e 27027 >> loadware77.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 27028 -e 27378 >> loadware78.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 27379 -e 27729 >> loadware79.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 27730 -e 28080 >> loadware80.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 28081 -e 28431 >> loadware81.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 28432 -e 28782 >> loadware82.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 28783 -e 29133 >> loadware83.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 29134 -e 29484 >> loadware84.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 29485 -e 29835 >> loadware85.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 29836 -e 30186 >> loadware86.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 30187 -e 30537 >> loadware87.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 30538 -e 30888 >> loadware88.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 30889 -e 31239 >> loadware89.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 31240 -e 31590 >> loadware90.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 31591 -e 31941 >> loadware91.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 31942 -e 32292 >> loadware92.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 32293 -e 32643 >> loadware93.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 32644 -e 32994 >> loadware94.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 32995 -e 33345 >> loadware95.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 33346 -e 33696 >> loadware96.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 33697 -e 34047 >> loadware97.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 34048 -e 34398 >> loadware98.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 34399 -e 34749 >> loadware99.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 34750 -e 35100 >> loadware100.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 35101 -e 35451 >> loadware101.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 35452 -e 35802 >> loadware102.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 35803 -e 36153 >> loadware103.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 36154 -e 36504 >> loadware104.log 2>&1 &
allprocs="$allprocs ${!}"
```

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$tpcc_load -M 2430000 -w  -b 36505 -e 36855 >> loadware105.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 36856 -e 37206 >> loadware106.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 37207 -e 37557 >> loadware107.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 37558 -e 37908 >> loadware108.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 37909 -e 38259 >> loadware109.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 38260 -e 38610 >> loadware110.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 38611 -e 38961 >> loadware111.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 38962 -e 39312 >> loadware112.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 39313 -e 39664 >> loadware113.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 39665 -e 40016 >> loadware114.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 40017 -e 40368 >> loadware115.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 40369 -e 40720 >> loadware116.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 40721 -e 41072 >> loadware117.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 41073 -e 41424 >> loadware118.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 41425 -e 41776 >> loadware119.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 41777 -e 42128 >> loadware120.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 42129 -e 42480 >> loadware121.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 42481 -e 42832 >> loadware122.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 42833 -e 43184 >> loadware123.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 43185 -e 43536 >> loadware124.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 43537 -e 43888 >> loadware125.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 43889 -e 44240 >> loadware126.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 44241 -e 44592 >> loadware127.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 44593 -e 44944 >> loadware128.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 44945 -e 45296 >> loadware129.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 45297 -e 45648 >> loadware130.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 45649 -e 46000 >> loadware131.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 46001 -e 46352 >> loadware132.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 46353 -e 46704 >> loadware133.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 46705 -e 47056 >> loadware134.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 47057 -e 47408 >> loadware135.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 47409 -e 47760 >> loadware136.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 47761 -e 48112 >> loadware137.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 48113 -e 48464 >> loadware138.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 48465 -e 48816 >> loadware139.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 48817 -e 49168 >> loadware140.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 49169 -e 49520 >> loadware141.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 49521 -e 49872 >> loadware142.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 49873 -e 50224 >> loadware143.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 50225 -e 50576 >> loadware144.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 50577 -e 50928 >> loadware145.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 50929 -e 51280 >> loadware146.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 51281 -e 51632 >> loadware147.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 51633 -e 51984 >> loadware148.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 51985 -e 52336 >> loadware149.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 52337 -e 52688 >> loadware150.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 52689 -e 53040 >> loadware151.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 53041 -e 53392 >> loadware152.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 53393 -e 53744 >> loadware153.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 53745 -e 54096 >> loadware154.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 54097 -e 54448 >> loadware155.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 54449 -e 54800 >> loadware156.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 54801 -e 55152 >> loadware157.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 55153 -e 55504 >> loadware158.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 55505 -e 55856 >> loadware159.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 55857 -e 56208 >> loadware160.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 56209 -e 56560 >> loadware161.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 56561 -e 56912 >> loadware162.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 56913 -e 57264 >> loadware163.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 57265 -e 57616 >> loadware164.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 57617 -e 57968 >> loadware165.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 57969 -e 58320 >> loadware166.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 58321 -e 58672 >> loadware167.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 58673 -e 59024 >> loadware168.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 59025 -e 59376 >> loadware169.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 59377 -e 59728 >> loadware170.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 59729 -e 60080 >> loadware171.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 60081 -e 60432 >> loadware172.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 60433 -e 60784 >> loadware173.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 60785 -e 61136 >> loadware174.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 61137 -e 61488 >> loadware175.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 61489 -e 61840 >> loadware176.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 61841 -e 62192 >> loadware177.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 62193 -e 62544 >> loadware178.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 62545 -e 62896 >> loadware179.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 62897 -e 63248 >> loadware180.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 63249 -e 63600 >> loadware181.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 63601 -e 63952 >> loadware182.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 63953 -e 64304 >> loadware183.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 64305 -e 64656 >> loadware184.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 64657 -e 65008 >> loadware185.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 65009 -e 65360 >> loadware186.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 65361 -e 65712 >> loadware187.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 65713 -e 66064 >> loadware188.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 66065 -e 66416 >> loadware189.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 66417 -e 66768 >> loadware190.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 66769 -e 67120 >> loadware191.log 2>&1 &
allprocs="$allprocs ${!}"
```

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$tpcc_load -M 2430000 -w  -b 67121 -e 67472 >> loadware192.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 67473 -e 67824 >> loadware193.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 67825 -e 68176 >> loadware194.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 68177 -e 68528 >> loadware195.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 68529 -e 68880 >> loadware196.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 68881 -e 69232 >> loadware197.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 69233 -e 69584 >> loadware198.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 69585 -e 69936 >> loadware199.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 69937 -e 70288 >> loadware200.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 70289 -e 70640 >> loadware201.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 70641 -e 70992 >> loadware202.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 70993 -e 71344 >> loadware203.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 71345 -e 71696 >> loadware204.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 71697 -e 72048 >> loadware205.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 72049 -e 72400 >> loadware206.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 72401 -e 72752 >> loadware207.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 72753 -e 73104 >> loadware208.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 73105 -e 73456 >> loadware209.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 73457 -e 73808 >> loadware210.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 73809 -e 74160 >> loadware211.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 74161 -e 74512 >> loadware212.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 74513 -e 74864 >> loadware213.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 74865 -e 75216 >> loadware214.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 75217 -e 75568 >> loadware215.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 75569 -e 75920 >> loadware216.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 75921 -e 76272 >> loadware217.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 76273 -e 76624 >> loadware218.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 76625 -e 76976 >> loadware219.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 76977 -e 77328 >> loadware220.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 77329 -e 77680 >> loadware221.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 77681 -e 78032 >> loadware222.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 78033 -e 78384 >> loadware223.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 78385 -e 78736 >> loadware224.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 78737 -e 79088 >> loadware225.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 79089 -e 79440 >> loadware226.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 79441 -e 79792 >> loadware227.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 79793 -e 80144 >> loadware228.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 80145 -e 80496 >> loadware229.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 80497 -e 80848 >> loadware230.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 80849 -e 81200 >> loadware231.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 81201 -e 81552 >> loadware232.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 81553 -e 81904 >> loadware233.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 81905 -e 82256 >> loadware234.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 82257 -e 82608 >> loadware235.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 82609 -e 82960 >> loadware236.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 82961 -e 83312 >> loadware237.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 83313 -e 83664 >> loadware238.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 83665 -e 84016 >> loadware239.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 84017 -e 84368 >> loadware240.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 84369 -e 84720 >> loadware241.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 84721 -e 85072 >> loadware242.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 85073 -e 85424 >> loadware243.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 85425 -e 85776 >> loadware244.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 85777 -e 86128 >> loadware245.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 86129 -e 86480 >> loadware246.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 86481 -e 86832 >> loadware247.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 86833 -e 87184 >> loadware248.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 87185 -e 87536 >> loadware249.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 87537 -e 87888 >> loadware250.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 87889 -e 88240 >> loadware251.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 88241 -e 88592 >> loadware252.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 88593 -e 88944 >> loadware253.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 88945 -e 89296 >> loadware254.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 89297 -e 89648 >> loadware255.log 2>&1 &
allprocs="$allprocs ${!}"
$tpcc_load -M 2430000 -w  -b 89649 -e 90000 >> loadware256.log 2>&1 &
allprocs="$allprocs ${!}"
error=0
for curproc in $allprocs; do
  wait $curproc
  error=`expr $? + $error`
done
exit `expr $error != 0`
```

stepenv.sh

```
# forces any env variables we set to be exported
set -a
tpcc_kit=t
tpcc_bench=$PWD
tpcc_scripts=$tpcc_bench/scripts
tpcc_require=$tpcc_scripts/require_vars.sh
tpcc_lcm=$tpcc_scripts/lcm.sh
tpcc_tokilobytes=$tpcc_scripts/tokilobytes.sh
tpcc_fromkilobytes=$tpcc_scripts/fromkilobytes.sh
tpcc_estsize=$tpcc_scripts/estsize.sh
tpcc_notneg=$tpcc_scripts/notneg.sh
tpcc_isneg=$tpcc_scripts/isneg.sh


# need a better way to check for bc, may
# resort to checking each directory in path
# if this doesn't work
#11/7/02 - alex.ni this is causing too many problems
#because systems have bc in some odd place.  typically
#mangled cygwin installs w/ mksnt/cygwin mixes
#if test -x /usr/bin/bc -o -x /bin/bc; then
tpcc_bcexpr=$tpcc_scripts/bcexpr.sh
#else
#tpcc_bcexpr=expr
#fi


# the ksh version is a bit faster, so we want
# to use it if we have ksh.  Otherwise we have
# a compatible version.
#if test -x /bin/ksh; then
#tpcc_createts=$tpcc_scripts/createts.ksh
#else
tpcc_createts=$tpcc_scripts/createts.sh
#fi
```

```
tpcc_tabledata=$tpcc_scripts/tabledata.sh
tpcc_load=$tpcc_bench/benchrun/bin/tpccload.exe
tpcc_createtablespaces=$tpcc_scripts/createtablespaces.sh

##
tpcc_sqlplus=cat
tpcc_sqlplus_args='/nolog'
tpcc_internal_connect='connect / as sysdba'
tpcc_user_pass='tpcc/tpcc'
tpcc_dba_user_pass='system/manager'
oracle_dba=system
oracle_dba_password=manager
tpcc_sqlplus=sqlplus

# import options generated by gui
. ${tpcc_bench}/options.sh

#8gb oracle filesize limit (in k)
tpcc_fsize_limit_k=8243200
#2gb - 1k oracle extent limit (in k)
tpcc_extent_limit_k=2048000
#file number limit: 1024
#tpcc_file_number_limit=1024
tpcc_file_number_limit=10240

# Runlen calculations should be in hours, but
# this was the old calculation, which assumed
# minutes, and also 8 times:
# tpcc_runlen=`$tpcc_bcexpr 8 \* 60 \* $tpcc_runlen`
# we just want to keep the value as it is.

tpcc_system_size=400M
tpcc_kilo_bytes=1024
#tpcc_logfile_size=`$tpcc_bcexpr 20 + \( $tpcc_scale \)`

if test $tpcc_np -gt 1 ; then
  # 4.69k per commit * 2.1 commit per TPMC ~ 9.85K
  # 9.85k * 30 minutes * 12.5 TPMC per Warehouse = 3693
  tpcc_logfile_size=`$tpcc_bcexpr \( $tpcc_scale \* 3693 \) /
$tpcc_kilo_bytes`
else
  # 2.4k per commit * 2.1 commit per TPMC ~ 5k
  # 5k * 30 minutes * 12.5 TPMC per Warehouse = 1875
  tpcc_logfile_size=`$tpcc_bcexpr \( $tpcc_scale \* 1875 \) /
$tpcc_kilo_bytes`
fi

if test $tpcc_logfile_size -lt 1024; then
  tpcc_logfile_size=1024
fi
tpcc_logfile_size="${tpcc_logfile_size}M"

tpcc_undo_size=`$tpcc_bcexpr 2 \* $tpcc_scale`
if test $tpcc_undo_size -gt 8096; then
  tpcc_undo_size=8096
fi
if test $tpcc_undo_size -lt 512; then
  tpcc_undo_size=512
fi
tpcc_undo_size="${tpcc_undo_size}M"

tpcc_undo_bs=8K

tpcc_statspack_size=`$tpcc_bcexpr 1 \* $tpcc_scale`
if test $tpcc_statspack_size -gt 2048; then
  tpcc_statspack_size=2048
fi
if test $tpcc_statspack_size -lt 300; then
  tpcc_statspack_size=300
fi
tpcc_statspack_size="${tpcc_statspack_size}M"
tpcc_statspack_size="1600OM"

tpcc_sysaux_size=16000M

# fixed table params

#table list (note temp is always at the end since it may use numbers from
other tables, and it's not included in these lists)
tpcc_table_list='ware cust dist hist stok item ordr ordl nord'
tpcc_index_list='iware icust1 icust2 idist istok iitem iordr1 iordr2 iordl inord'
#for these I use average row length, calculated from multi-blocksize stats.
#we figure out how many new rows we will gain in a run (in
createtablesspaces.sh)
#and add that much to the base tablespace size.
tpcc_hist_growth=51
tpcc_ordr_growth=35
tpcc_nord_growth=regular
#tpcc_ordl_growth=660
tpcc_ordl_growth=900

#i started indices at 1/10th... need an exact figure
tpcc_iordr1_growth=20
tpcc_iordr2_growth=20
tpcc_iordl_growth=66
tpcc_inord_growth=2

tpcc_item_growth=0
tpcc_iitem_growth=0
tpcc_temp_growth=0

tpcc_cust_growth=regular
tpcc_icust1_growth=regular
tpcc_icust2_growth=regular

tpcc_stok_growth=regular
tpcc_istok_growth=regular

tpcc_ware_growth=regular
tpcc_iware_growth=regular

tpcc_dist_growth=regular
tpcc_idist_growth=regular

# minimum size of temp tablespace
tpcc_tempts_min=10240

# for Linux, set appropriate tablespace heuristics
# to set high io tables to have 64 files, and minimize
# others.
if expr $tpcc_os = linux > /dev/null; then
#  for table in $tpcc_table_list $tpcc_index_list temp; do
#    eval "tpcc_${table}_tsfileinc=1"
#  done
  if test $tpcc_numfiles = 0 ; then
    tpcc_numfiles=256
  fi
  tpcc_os=unix

#  tpcc_stok_tsfileinc=64
#  tpcc_cust_tsfileinc=64
#  tpcc_iordl2_tsfileinc=16
#  tpcc_icust2_tsfileinc=16
#  tpcc_iordl_tsfileinc=16
else
#in case someone changes out of linux, and the shell is stuck
  for table in $tpcc_table_list $tpcc_index_list temp; do
    eval "tpcc_${table}_tsfileinc="
  done
fi
  tpcc_stok_tsfileinc=
  tpcc_cust_tsfileinc=
  tpcc_iordl2_tsfileinc=
  tpcc_icust2_tsfileinc=
  tpcc_iordl_tsfileinc=
#fi


# import local options
. ${tpcc_bench}/localoptions.sh

if expr `echo x$tpcc_no_options` = xt > /dev/null; then
  echo Please modify ${tpcc_bench}/localoptions.sh to configure the
generator.
  exit 1
fi

tpcc_fixordrordl=${tpcc_genscripts_dir}/loadfixordrordl.sh
tpcc_updateordrordl=${tpcc_scripts}/updateordrordl.sh

#tp- get table param.  (that is, $tpcc_tablename_tableparam)
tp(){
  eval echo \""\$tpcc_$1_$2"\"
}

# automatically generated variables
if expr `echo $tpcc_version | cut -b1` = t > /dev/null; then
  tpcc_auto_undo=t
else
  tpcc_auto_undo=f
fi
if expr `echo $tpcc_version | cut -b2` = t > /dev/null; then
  tpcc_autospace_avail=t
else
```

```
  tpcc_autospace_avail=f
fi
if expr `echo $tpcc_version | cut -b3` = t > /dev/null; then
  tpcc_queue_avail=t
  tpcc_use_sysaux=t
else
  tpcc_queue_avail=f
  tpcc_use_sysaux=f
fi

# for NT, ORACLE does not like $variables in sql scripts, so we must
# hardcode these things for it.
if test x$tpcc_os = xnt; then
  tpcc_hardcode=t
else
  tpcc_hardcode=f
fi

# if this is unset we need to make sure it's something anyway
if test x$tpcc_defbs = x; then
  tpcc_defbs=2
fi

# used for loading program
if test x$tpcc_hash_overflow = xt; then
  tpcc_hash_overflow=t
else
  unset tpcc_hash_overflow
fi
if test x$tpcc_overflow = xt; then
  tpcc_hash_overflow=t
else
  unset tpcc_hash_overflow
fi

tpcc_create_steps="buildtpccflags buildcreatets buildcreatedb \
buildcreatetable-ware buildcreatetable-cust buildcreatetable-dist
buildcreatetable-hist buildcreatetable-stok buildcreatetable-item
buildcreatetable-ordr buildcreatetable-ordl buildcreatetable-nord buildanalyze
\
buildloadware buildloaddist buildloaditem buildloadhist buildloadnord
buildloadordrordl buildloadcust buildloadstok \
buildcreateindex-iware buildcreateindex-icust1 buildcreateindex-icust2
buildcreateindex-idist buildcreateindex-istok buildcreateindex-iitem
buildcreateindex-iordr1 buildcreateindex-iordr2 buildcreateindex-iordl
buildcreateindex-inord \
buildstoreprocsql buildspacestats listfiles
"

# remove runscript-loadfixordrordl - shuang, 030626

tpcc_steps="runsqllocal-createdb shutdowndb startupdb-p_build createuser
ddview runscript-createts assigntemp \
  runsql-createtable_ware runsql-createtable_cust runsql-createtable_dist
runsql-createtable_hist runsql-createtable_stok runsql-createtable_item
runsql-createtable_ordr runsql-createtable_ordl runsql-createtable_nord \
runscript-loadware runscript-loaddist runscript-loaditem runscript-loadhist
runscript-loadnord runscript-loadordrordl runscript-loadcust runscript-
loadstok \
analyze runsql-createindex_iware runsql-createindex_icust1 runsql-
createindex_icust2 runsql-createindex_idist runsql-createindex_istok runsql-
createindex_iitem runsql-createindex_iordr1 runsql-createindex_iordr2
runsql-createindex_iordl runsql-createindex_inord \
createstats createstoredprocs createspacestats createmisc"


tpcc_total_files=524

# no longer automatically exports env variables
set +a

# check for problems with configuration
badconf=
for table in $tpcc_table_list; do
  if expr `tp $table imp` = queue > /dev/null; then
    if expr $tpcc_queue_avail = f > /dev/null; then
                echo Table $table may not be a queue, since queues are
                echo are unavailable in the selected Oracle version.
                badconf=t
    fi
  fi
  if expr $tpcc_autospace_avail = f \& `tp $table autospace` = t > /dev/null;
then
    echo Table $table may not use bitmapped space management
    echo since it is not available in the selected Oracle version.
    badconf=t
  fi
done

if test -n "$badconf"; then
  exit 1
fi

# make sure we have everything
if $tpcc_require ORACLE_SID \
 tpcc_tokilobytes tpcc_createts tpcc_lcm\
 tpcc_sqlplus tpcc_internal_connect\
 tpcc_np tpcc_cpu tpcc_os tpcc_runlen tpcc_ldrive tpcc_scale
tpcc_disks_location tpcc_auto_undo tpcc_tempts_min\
 tpcc_system_size tpcc_logfile_size\
 tpcc_undo_size tpcc_undo_bs\
 oracle_dba oracle_dba_password tpcc_dba_user_pass
then exit 1; fi

if test x$tpcc_hardcode != xt; then
  tpcc_disks_location=${tpcc_disks_location}/
#  tpcc_sql_dir='$tpcc_sql_dir'
#  tpcc_statspack_size='$tpcc_statspack_size'
#  tpcc_genscripts_dir='$tpcc_genscripts_dir'
fi
```

createdb.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatedb.sh Thu Aug 19
13:21:24 PDT 2010 */
spool createdb.log

set echo on

shutdown abort

startup pfile=p_create.ora nomount
create database recap
  controlfile reuse
  maxinstances 27
  maxlogfiles 108
  datafile
   '/export/home/oracle/tpcc_disks_recap/system_0_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_1_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_2_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_3_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_4_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_5_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_6_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_7_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_8_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_9_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_10_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_11_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_12_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_13_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_14_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_15_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_16_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_17_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_18_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_19_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_20_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_21_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_22_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_23_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_24_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_25_0' size 1000M reuse,
   '/export/home/oracle/tpcc_disks_recap/system_26_0' size 1000M reuse
  logfile  ('/export/home/oracle/tpcc_disks_recap/log_0_0',
            '/export/home/oracle/tpcc_disks_recap/log_0_2') size 385G reuse,
          ('/export/home/oracle/tpcc_disks_recap/log_0_1',
            '/export/home/oracle/tpcc_disks_recap/log_0_3') size 385G reuse
  sysaux datafile '/export/home/oracle/tpcc_disks_recap/tpccaux' size 16000M
reuse ;

alter database add logfile thread 2
   group 3 ('/export/home/oracle/tpcc_disks_recap/log_1_0',
            '/export/home/oracle/tpcc_disks_recap/log_1_2') size 385G reuse,
   group 4 ('/export/home/oracle/tpcc_disks_recap/log_1_1',
            '/export/home/oracle/tpcc_disks_recap/log_1_3') size 385G reuse;
alter database enable public thread 2;
alter database add logfile thread 3
   group 5 ('/export/home/oracle/tpcc_disks_recap/log_2_0',
            '/export/home/oracle/tpcc_disks_recap/log_2_2') size 385G reuse,
   group 6 ('/export/home/oracle/tpcc_disks_recap/log_2_1',
            '/export/home/oracle/tpcc_disks_recap/log_2_3') size 385G reuse;
alter database enable public thread 3;
alter database add logfile thread 4
```

```
  group 7 ('/export/home/oracle/tpcc_disks_recap/log_3_0',
        '/export/home/oracle/tpcc_disks_recap/log_3_2') size 385G reuse,
  group 8 ('/export/home/oracle/tpcc_disks_recap/log_3_1',
        '/export/home/oracle/tpcc_disks_recap/log_3_3') size 385G reuse;
alter database enable public thread 4;
alter database add logfile thread 5
  group 9 ('/export/home/oracle/tpcc_disks_recap/log_4_0',
        '/export/home/oracle/tpcc_disks_recap/log_4_2') size 385G reuse,
  group 10 ('/export/home/oracle/tpcc_disks_recap/log_4_1',
        '/export/home/oracle/tpcc_disks_recap/log_4_3') size 385G reuse;
alter database enable public thread 5;
alter database add logfile thread 6
  group 11 ('/export/home/oracle/tpcc_disks_recap/log_5_0',
        '/export/home/oracle/tpcc_disks_recap/log_5_2') size 385G reuse,
  group 12 ('/export/home/oracle/tpcc_disks_recap/log_5_1',
        '/export/home/oracle/tpcc_disks_recap/log_5_3') size 385G reuse;
alter database enable public thread 6;
alter database add logfile thread 7
  group 13 ('/export/home/oracle/tpcc_disks_recap/log_6_0',
        '/export/home/oracle/tpcc_disks_recap/log_6_2') size 385G reuse,
  group 14 ('/export/home/oracle/tpcc_disks_recap/log_6_1',
        '/export/home/oracle/tpcc_disks_recap/log_6_3') size 385G reuse;
alter database enable public thread 7;
alter database add logfile thread 8
  group 15 ('/export/home/oracle/tpcc_disks_recap/log_7_0',
        '/export/home/oracle/tpcc_disks_recap/log_7_2') size 385G reuse,
  group 16 ('/export/home/oracle/tpcc_disks_recap/log_7_1',
        '/export/home/oracle/tpcc_disks_recap/log_7_3') size 385G reuse;
alter database enable public thread 8;
alter database add logfile thread 9
  group 17 ('/export/home/oracle/tpcc_disks_recap/log_8_0',
        '/export/home/oracle/tpcc_disks_recap/log_8_2') size 385G reuse,
  group 18 ('/export/home/oracle/tpcc_disks_recap/log_8_1',
        '/export/home/oracle/tpcc_disks_recap/log_8_3') size 385G reuse;
alter database enable public thread 9;
alter database add logfile thread 10
  group 19 ('/export/home/oracle/tpcc_disks_recap/log_9_0',
        '/export/home/oracle/tpcc_disks_recap/log_9_2') size 385G reuse,
  group 20 ('/export/home/oracle/tpcc_disks_recap/log_9_1',
        '/export/home/oracle/tpcc_disks_recap/log_9_3') size 385G reuse;
alter database enable public thread 10;
alter database add logfile thread 11
  group 21 ('/export/home/oracle/tpcc_disks_recap/log_10_0',
        '/export/home/oracle/tpcc_disks_recap/log_10_2') size 385G reuse,
  group 22 ('/export/home/oracle/tpcc_disks_recap/log_10_1',
        '/export/home/oracle/tpcc_disks_recap/log_10_3') size 385G reuse;
alter database enable public thread 11;
alter database add logfile thread 12
  group 23 ('/export/home/oracle/tpcc_disks_recap/log_11_0',
        '/export/home/oracle/tpcc_disks_recap/log_11_2') size 385G reuse,
  group 24 ('/export/home/oracle/tpcc_disks_recap/log_11_1',
        '/export/home/oracle/tpcc_disks_recap/log_11_3') size 385G reuse;
alter database enable public thread 12;
alter database add logfile thread 13
  group 25 ('/export/home/oracle/tpcc_disks_recap/log_12_0',
        '/export/home/oracle/tpcc_disks_recap/log_12_2') size 385G reuse,
  group 26 ('/export/home/oracle/tpcc_disks_recap/log_12_1',
        '/export/home/oracle/tpcc_disks_recap/log_12_3') size 385G reuse;
alter database enable public thread 13;
alter database add logfile thread 14
  group 27 ('/export/home/oracle/tpcc_disks_recap/log_13_0',
        '/export/home/oracle/tpcc_disks_recap/log_13_2') size 385G reuse,
  group 28 ('/export/home/oracle/tpcc_disks_recap/log_13_1',
        '/export/home/oracle/tpcc_disks_recap/log_13_3') size 385G reuse;
alter database enable public thread 14;
alter database add logfile thread 15
  group 29 ('/export/home/oracle/tpcc_disks_recap/log_14_0',
        '/export/home/oracle/tpcc_disks_recap/log_14_2') size 385G reuse,
  group 30 ('/export/home/oracle/tpcc_disks_recap/log_14_1',
        '/export/home/oracle/tpcc_disks_recap/log_14_3') size 385G reuse;
alter database enable public thread 15;
alter database add logfile thread 16
  group 31 ('/export/home/oracle/tpcc_disks_recap/log_15_0',
        '/export/home/oracle/tpcc_disks_recap/log_15_2') size 385G reuse,
  group 32 ('/export/home/oracle/tpcc_disks_recap/log_15_1',
        '/export/home/oracle/tpcc_disks_recap/log_15_3') size 385G reuse;
alter database enable public thread 16;
alter database add logfile thread 17
  group 33 ('/export/home/oracle/tpcc_disks_recap/log_16_0',
        '/export/home/oracle/tpcc_disks_recap/log_16_2') size 385G reuse,
  group 34 ('/export/home/oracle/tpcc_disks_recap/log_16_1',
        '/export/home/oracle/tpcc_disks_recap/log_16_3') size 385G reuse;
alter database enable public thread 17;
alter database add logfile thread 18
  group 35 ('/export/home/oracle/tpcc_disks_recap/log_17_0',
        '/export/home/oracle/tpcc_disks_recap/log_17_2') size 385G reuse,
  group 36 ('/export/home/oracle/tpcc_disks_recap/log_17_1',
        '/export/home/oracle/tpcc_disks_recap/log_17_3') size 385G reuse;
alter database enable public thread 18;
alter database add logfile thread 19
  group 37 ('/export/home/oracle/tpcc_disks_recap/log_18_0',
        '/export/home/oracle/tpcc_disks_recap/log_18_2') size 385G reuse,
  group 38 ('/export/home/oracle/tpcc_disks_recap/log_18_1',
        '/export/home/oracle/tpcc_disks_recap/log_18_3') size 385G reuse;
alter database enable public thread 19;
alter database add logfile thread 20
  group 39 ('/export/home/oracle/tpcc_disks_recap/log_19_0',
        '/export/home/oracle/tpcc_disks_recap/log_19_2') size 385G reuse,
  group 40 ('/export/home/oracle/tpcc_disks_recap/log_19_1',
        '/export/home/oracle/tpcc_disks_recap/log_19_3') size 385G reuse;
alter database enable public thread 20;
alter database add logfile thread 21
  group 41 ('/export/home/oracle/tpcc_disks_recap/log_20_0',
        '/export/home/oracle/tpcc_disks_recap/log_20_2') size 385G reuse,
  group 42 ('/export/home/oracle/tpcc_disks_recap/log_20_1',
        '/export/home/oracle/tpcc_disks_recap/log_20_3') size 385G reuse;
alter database enable public thread 21;
alter database add logfile thread 22
  group 43 ('/export/home/oracle/tpcc_disks_recap/log_21_0',
        '/export/home/oracle/tpcc_disks_recap/log_21_2') size 385G reuse,
  group 44 ('/export/home/oracle/tpcc_disks_recap/log_21_1',
        '/export/home/oracle/tpcc_disks_recap/log_21_3') size 385G reuse;
alter database enable public thread 22;
alter database add logfile thread 23
  group 45 ('/export/home/oracle/tpcc_disks_recap/log_22_0',
        '/export/home/oracle/tpcc_disks_recap/log_22_2') size 385G reuse,
  group 46 ('/export/home/oracle/tpcc_disks_recap/log_22_1',
        '/export/home/oracle/tpcc_disks_recap/log_22_3') size 385G reuse;
alter database enable public thread 23;
alter database add logfile thread 24
  group 47 ('/export/home/oracle/tpcc_disks_recap/log_23_0',
        '/export/home/oracle/tpcc_disks_recap/log_23_2') size 385G reuse,
  group 48 ('/export/home/oracle/tpcc_disks_recap/log_23_1',
        '/export/home/oracle/tpcc_disks_recap/log_23_3') size 385G reuse;
alter database enable public thread 24;
alter database add logfile thread 25
  group 49 ('/export/home/oracle/tpcc_disks_recap/log_24_0',
        '/export/home/oracle/tpcc_disks_recap/log_24_2') size 385G reuse,
  group 50 ('/export/home/oracle/tpcc_disks_recap/log_24_1',
        '/export/home/oracle/tpcc_disks_recap/log_24_3') size 385G reuse;
alter database enable public thread 25;
alter database add logfile thread 26
  group 51 ('/export/home/oracle/tpcc_disks_recap/log_25_0',
        '/export/home/oracle/tpcc_disks_recap/log_25_2') size 385G reuse,
  group 52 ('/export/home/oracle/tpcc_disks_recap/log_25_1',
        '/export/home/oracle/tpcc_disks_recap/log_25_3') size 385G reuse;
alter database enable public thread 26;
alter database add logfile thread 27
  group 53 ('/export/home/oracle/tpcc_disks_recap/log_26_0',
        '/export/home/oracle/tpcc_disks_recap/log_26_2') size 385G reuse,
  group 54 ('/export/home/oracle/tpcc_disks_recap/log_26_1',
        '/export/home/oracle/tpcc_disks_recap/log_26_3') size 385G reuse;
alter database enable public thread 27;

create undo tablespace undo_1 datafile
  '/export/home/oracle/tpcc_disks_recap/roll0' size 8096M reuse blocksize
8K;
create undo tablespace undo_2 datafile
  '/export/home/oracle/tpcc_disks_recap/roll1' size 8096M reuse blocksize
8K;
create undo tablespace undo_3 datafile
  '/export/home/oracle/tpcc_disks_recap/roll2' size 8096M reuse blocksize
8K;
create undo tablespace undo_4 datafile
  '/export/home/oracle/tpcc_disks_recap/roll3' size 8096M reuse blocksize
8K;
create undo tablespace undo_5 datafile
  '/export/home/oracle/tpcc_disks_recap/roll4' size 8096M reuse blocksize
8K;
create undo tablespace undo_6 datafile
  '/export/home/oracle/tpcc_disks_recap/roll5' size 8096M reuse blocksize
8K;
create undo tablespace undo_7 datafile
  '/export/home/oracle/tpcc_disks_recap/roll6' size 8096M reuse blocksize
8K;
create undo tablespace undo_8 datafile
  '/export/home/oracle/tpcc_disks_recap/roll7' size 8096M reuse blocksize
8K;
create undo tablespace undo_9 datafile
  '/export/home/oracle/tpcc_disks_recap/roll8' size 8096M reuse blocksize
8K;
create undo tablespace undo_10 datafile
  '/export/home/oracle/tpcc_disks_recap/roll9' size 8096M reuse blocksize
8K;
```

```
create undo tablespace undo_11 datafile
  '/export/home/oracle/tpcc_disks_recap/roll10' size 8096M reuse blocksize 8K;
create undo tablespace undo_12 datafile
  '/export/home/oracle/tpcc_disks_recap/roll11' size 8096M reuse blocksize 8K;
create undo tablespace undo_13 datafile
  '/export/home/oracle/tpcc_disks_recap/roll12' size 8096M reuse blocksize 8K;
create undo tablespace undo_14 datafile
  '/export/home/oracle/tpcc_disks_recap/roll13' size 8096M reuse blocksize 8K;
create undo tablespace undo_15 datafile
  '/export/home/oracle/tpcc_disks_recap/roll14' size 8096M reuse blocksize 8K;
create undo tablespace undo_16 datafile
  '/export/home/oracle/tpcc_disks_recap/roll15' size 8096M reuse blocksize 8K;
create undo tablespace undo_17 datafile
  '/export/home/oracle/tpcc_disks_recap/roll16' size 8096M reuse blocksize 8K;
create undo tablespace undo_18 datafile
  '/export/home/oracle/tpcc_disks_recap/roll17' size 8096M reuse blocksize 8K;
create undo tablespace undo_19 datafile
  '/export/home/oracle/tpcc_disks_recap/roll18' size 8096M reuse blocksize 8K;
create undo tablespace undo_20 datafile
  '/export/home/oracle/tpcc_disks_recap/roll19' size 8096M reuse blocksize 8K;
create undo tablespace undo_21 datafile
  '/export/home/oracle/tpcc_disks_recap/roll20' size 8096M reuse blocksize 8K;
create undo tablespace undo_22 datafile
  '/export/home/oracle/tpcc_disks_recap/roll21' size 8096M reuse blocksize 8K;
create undo tablespace undo_23 datafile
  '/export/home/oracle/tpcc_disks_recap/roll22' size 8096M reuse blocksize 8K;
create undo tablespace undo_24 datafile
  '/export/home/oracle/tpcc_disks_recap/roll23' size 8096M reuse blocksize 8K;
create undo tablespace undo_25 datafile
  '/export/home/oracle/tpcc_disks_recap/roll24' size 8096M reuse blocksize 8K;
create undo tablespace undo_26 datafile
  '/export/home/oracle/tpcc_disks_recap/roll25' size 8096M reuse blocksize 8K;
create undo tablespace undo_27 datafile
  '/export/home/oracle/tpcc_disks_recap/roll26' size 8096M reuse blocksize 8K;


set echo off
exit sql.sqlcode
```

createindex_icust1.sql

```
/* created automatically by /export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug 19 13:26:41 PDT 2010 */
set timing on
   set sqlblanklines on
   spool createindex_icust1.log ;
   set echo on ;
   drop index icust1 ;
     create unique index icust1 on cust ( c_w_id
, c_d_id
, c_id )
  local (
partition icust1_0 tablespace icust1_0
, partition icust1_1 tablespace icust1_1
, partition icust1_2 tablespace icust1_2
, partition icust1_3 tablespace icust1_3
, partition icust1_4 tablespace icust1_4
, partition icust1_5 tablespace icust1_5
, partition icust1_6 tablespace icust1_6
, partition icust1_7 tablespace icust1_7
, partition icust1_8 tablespace icust1_8
, partition icust1_9 tablespace icust1_9
, partition icust1_10 tablespace icust1_10
, partition icust1_11 tablespace icust1_11
, partition icust1_12 tablespace icust1_12
, partition icust1_13 tablespace icust1_13
, partition icust1_14 tablespace icust1_14
, partition icust1_15 tablespace icust1_15
, partition icust1_16 tablespace icust1_16
, partition icust1_17 tablespace icust1_17
, partition icust1_18 tablespace icust1_18
, partition icust1_19 tablespace icust1_19
, partition icust1_20 tablespace icust1_20
, partition icust1_21 tablespace icust1_21
, partition icust1_22 tablespace icust1_22
, partition icust1_23 tablespace icust1_23
, partition icust1_24 tablespace icust1_24
, partition icust1_25 tablespace icust1_25
, partition icust1_26 tablespace icust1_26
)
  parallel 256
  pctfree 1  initrans 3
  storage ( buffer_pool default  )
  compute statistics

  ;
   set echo off
   spool off
   exit sql.sqlcode;
```

createindex_icust2.sql

```
/* created automatically by /export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug 19 13:26:42 PDT 2010 */
set timing on
   set sqlblanklines on
   spool createindex_icust2.log ;
   set echo on ;
   drop index icust2 ;
     create unique index icust2 on cust ( c_w_id
, c_last
, c_d_id
, c_first
, c_id )
  local (
partition icust2_0 tablespace icust2_0
, partition icust2_1 tablespace icust2_1
, partition icust2_2 tablespace icust2_2
, partition icust2_3 tablespace icust2_3
, partition icust2_4 tablespace icust2_4
, partition icust2_5 tablespace icust2_5
, partition icust2_6 tablespace icust2_6
, partition icust2_7 tablespace icust2_7
, partition icust2_8 tablespace icust2_8
, partition icust2_9 tablespace icust2_9
, partition icust2_10 tablespace icust2_10
, partition icust2_11 tablespace icust2_11
, partition icust2_12 tablespace icust2_12
, partition icust2_13 tablespace icust2_13
, partition icust2_14 tablespace icust2_14
, partition icust2_15 tablespace icust2_15
, partition icust2_16 tablespace icust2_16
, partition icust2_17 tablespace icust2_17
, partition icust2_18 tablespace icust2_18
, partition icust2_19 tablespace icust2_19
, partition icust2_20 tablespace icust2_20
, partition icust2_21 tablespace icust2_21
, partition icust2_22 tablespace icust2_22
, partition icust2_23 tablespace icust2_23
, partition icust2_24 tablespace icust2_24
, partition icust2_25 tablespace icust2_25
, partition icust2_26 tablespace icust2_26
)
  parallel 256
  pctfree 1  initrans 3
  storage ( buffer_pool default  )
  compute statistics

  ;
   set echo off
   spool off
   exit sql.sqlcode;
```

createindex_idist.sql

```
/* created automatically by /export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug 19 13:26:43 PDT 2010 */
set timing on
   set sqlblanklines on
   spool createindex_idist.log ;
   set echo on ;
   drop index idist ;
     create unique index idist on dist ( d_w_id
, d_id )
  local (
partition idist_0 tablespace misc_0
, partition idist_1 tablespace misc_1
```

```
, partition idist_2 tablespace misc_2
, partition idist_3 tablespace misc_3
, partition idist_4 tablespace misc_4
, partition idist_5 tablespace misc_5
, partition idist_6 tablespace misc_6
, partition idist_7 tablespace misc_7
, partition idist_8 tablespace misc_8
, partition idist_9 tablespace misc_9
, partition idist_10 tablespace misc_10
, partition idist_11 tablespace misc_11
, partition idist_12 tablespace misc_12
, partition idist_13 tablespace misc_13
, partition idist_14 tablespace misc_14
, partition idist_15 tablespace misc_15
, partition idist_16 tablespace misc_16
, partition idist_17 tablespace misc_17
, partition idist_18 tablespace misc_18
, partition idist_19 tablespace misc_19
, partition idist_20 tablespace misc_20
, partition idist_21 tablespace misc_21
, partition idist_22 tablespace misc_22
, partition idist_23 tablespace misc_23
, partition idist_24 tablespace misc_24
, partition idist_25 tablespace misc_25
, partition idist_26 tablespace misc_26
)
  pctfree 5  initrans 3
  storage ( buffer_pool default )
  parallel 1
  compute statistics
  ;

    set echo off
    spool off
    exit sql.sqlcode;
```

createindex_item.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug
19 13:26:44 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createindex_iitem.log ;
    set echo on ;
    drop index iitem ;
      create unique index iitem on item ( i_id )
  pctfree 5  initrans 4
  storage ( buffer_pool default )

  compute statistics
  tablespace misc_0 ;
    set echo off
    spool off
    exit sql.sqlcode;
```

createindex_iiordl.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug
19 13:26:48 PDT 2010 */
set timing on
  exit 0;
```

createindex_inord.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug
19 13:26:49 PDT 2010 */
set timing on
  exit 0;
```

createindex_iordl.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug
19 13:26:48 PDT 2010 */
set timing on
  exit 0;
```

createindex_iord1.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug
19 13:26:44 PDT 2010 */
set timing on
  exit 0;
```

createindex_iord2.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug
19 13:26:45 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createindex_iordr2.log ;
    set echo on ;
    drop index iordr2 ;
      create unique index iordr2 on ordr ( o_w_id
, o_d_id
, o_c_id
, o_id )
  local (
partition iordr2_0 tablespace iordr2_0
, partition iordr2_1 tablespace iordr2_0
, partition iordr2_2 tablespace iordr2_0
, partition iordr2_3 tablespace iordr2_0
, partition iordr2_4 tablespace iordr2_0
, partition iordr2_5 tablespace iordr2_0
, partition iordr2_6 tablespace iordr2_0
, partition iordr2_7 tablespace iordr2_0
, partition iordr2_8 tablespace iordr2_0
, partition iordr2_9 tablespace iordr2_0
, partition iordr2_10 tablespace iordr2_0
, partition iordr2_11 tablespace iordr2_0
, partition iordr2_12 tablespace iordr2_0
, partition iordr2_13 tablespace iordr2_0
, partition iordr2_14 tablespace iordr2_0
, partition iordr2_15 tablespace iordr2_0
, partition iordr2_16 tablespace iordr2_1
, partition iordr2_17 tablespace iordr2_1
, partition iordr2_18 tablespace iordr2_1
, partition iordr2_19 tablespace iordr2_1
, partition iordr2_20 tablespace iordr2_1
, partition iordr2_21 tablespace iordr2_1
, partition iordr2_22 tablespace iordr2_1
, partition iordr2_23 tablespace iordr2_1
, partition iordr2_24 tablespace iordr2_1
, partition iordr2_25 tablespace iordr2_1
, partition iordr2_26 tablespace iordr2_1
, partition iordr2_27 tablespace iordr2_1
, partition iordr2_28 tablespace iordr2_1
, partition iordr2_29 tablespace iordr2_1
, partition iordr2_30 tablespace iordr2_1
, partition iordr2_31 tablespace iordr2_1
, partition iordr2_32 tablespace iordr2_2
, partition iordr2_33 tablespace iordr2_2
, partition iordr2_34 tablespace iordr2_2
, partition iordr2_35 tablespace iordr2_2
, partition iordr2_36 tablespace iordr2_2
, partition iordr2_37 tablespace iordr2_2
, partition iordr2_38 tablespace iordr2_2
, partition iordr2_39 tablespace iordr2_2
, partition iordr2_40 tablespace iordr2_2
, partition iordr2_41 tablespace iordr2_2
, partition iordr2_42 tablespace iordr2_2
, partition iordr2_43 tablespace iordr2_2
, partition iordr2_44 tablespace iordr2_2
, partition iordr2_45 tablespace iordr2_2
, partition iordr2_46 tablespace iordr2_2
, partition iordr2_47 tablespace iordr2_2
, partition iordr2_48 tablespace iordr2_3
, partition iordr2_49 tablespace iordr2_3
, partition iordr2_50 tablespace iordr2_3
, partition iordr2_51 tablespace iordr2_3
, partition iordr2_52 tablespace iordr2_3
, partition iordr2_53 tablespace iordr2_3
, partition iordr2_54 tablespace iordr2_3
, partition iordr2_55 tablespace iordr2_3
, partition iordr2_56 tablespace iordr2_3
, partition iordr2_57 tablespace iordr2_3
, partition iordr2_58 tablespace iordr2_3
, partition iordr2_59 tablespace iordr2_3
, partition iordr2_60 tablespace iordr2_3
, partition iordr2_61 tablespace iordr2_3
, partition iordr2_62 tablespace iordr2_3
, partition iordr2_63 tablespace iordr2_3
, partition iordr2_64 tablespace iordr2_4
, partition iordr2_65 tablespace iordr2_4
, partition iordr2_66 tablespace iordr2_4
, partition iordr2_67 tablespace iordr2_4
, partition iordr2_68 tablespace iordr2_4
, partition iordr2_69 tablespace iordr2_4
, partition iordr2_70 tablespace iordr2_4
, partition iordr2_71 tablespace iordr2_4
, partition iordr2_72 tablespace iordr2_4
, partition iordr2_73 tablespace iordr2_4
, partition iordr2_74 tablespace iordr2_4
, partition iordr2_75 tablespace iordr2_4
, partition iordr2_76 tablespace iordr2_4
```

```
, partition iordr2_77 tablespace iordr2_4
, partition iordr2_78 tablespace iordr2_4
, partition iordr2_79 tablespace iordr2_4
, partition iordr2_80 tablespace iordr2_5
, partition iordr2_81 tablespace iordr2_5
, partition iordr2_82 tablespace iordr2_5
, partition iordr2_83 tablespace iordr2_5
, partition iordr2_84 tablespace iordr2_5
, partition iordr2_85 tablespace iordr2_5
, partition iordr2_86 tablespace iordr2_5
, partition iordr2_87 tablespace iordr2_5
, partition iordr2_88 tablespace iordr2_5
, partition iordr2_89 tablespace iordr2_5
, partition iordr2_90 tablespace iordr2_5
, partition iordr2_91 tablespace iordr2_5
, partition iordr2_92 tablespace iordr2_5
, partition iordr2_93 tablespace iordr2_5
, partition iordr2_94 tablespace iordr2_5
, partition iordr2_95 tablespace iordr2_5
, partition iordr2_96 tablespace iordr2_6
, partition iordr2_97 tablespace iordr2_6
, partition iordr2_98 tablespace iordr2_6
, partition iordr2_99 tablespace iordr2_6
, partition iordr2_100 tablespace iordr2_6
, partition iordr2_101 tablespace iordr2_6
, partition iordr2_102 tablespace iordr2_6
, partition iordr2_103 tablespace iordr2_6
, partition iordr2_104 tablespace iordr2_6
, partition iordr2_105 tablespace iordr2_6
, partition iordr2_106 tablespace iordr2_6
, partition iordr2_107 tablespace iordr2_6
, partition iordr2_108 tablespace iordr2_6
, partition iordr2_109 tablespace iordr2_6
, partition iordr2_110 tablespace iordr2_6
, partition iordr2_111 tablespace iordr2_6
, partition iordr2_112 tablespace iordr2_7
, partition iordr2_113 tablespace iordr2_7
, partition iordr2_114 tablespace iordr2_7
, partition iordr2_115 tablespace iordr2_7
, partition iordr2_116 tablespace iordr2_7
, partition iordr2_117 tablespace iordr2_7
, partition iordr2_118 tablespace iordr2_7
, partition iordr2_119 tablespace iordr2_7
, partition iordr2_120 tablespace iordr2_7
, partition iordr2_121 tablespace iordr2_7
, partition iordr2_122 tablespace iordr2_7
, partition iordr2_123 tablespace iordr2_7
, partition iordr2_124 tablespace iordr2_7
, partition iordr2_125 tablespace iordr2_7
, partition iordr2_126 tablespace iordr2_7
, partition iordr2_127 tablespace iordr2_7
, partition iordr2_128 tablespace iordr2_8
, partition iordr2_129 tablespace iordr2_8
, partition iordr2_130 tablespace iordr2_8
, partition iordr2_131 tablespace iordr2_8
, partition iordr2_132 tablespace iordr2_8
, partition iordr2_133 tablespace iordr2_8
, partition iordr2_134 tablespace iordr2_8
, partition iordr2_135 tablespace iordr2_8
, partition iordr2_136 tablespace iordr2_8
, partition iordr2_137 tablespace iordr2_8
, partition iordr2_138 tablespace iordr2_8
, partition iordr2_139 tablespace iordr2_8
, partition iordr2_140 tablespace iordr2_8
, partition iordr2_141 tablespace iordr2_8
, partition iordr2_142 tablespace iordr2_8
, partition iordr2_143 tablespace iordr2_8
, partition iordr2_144 tablespace iordr2_9
, partition iordr2_145 tablespace iordr2_9
, partition iordr2_146 tablespace iordr2_9
, partition iordr2_147 tablespace iordr2_9
, partition iordr2_148 tablespace iordr2_9
, partition iordr2_149 tablespace iordr2_9
, partition iordr2_150 tablespace iordr2_9
, partition iordr2_151 tablespace iordr2_9
, partition iordr2_152 tablespace iordr2_9
, partition iordr2_153 tablespace iordr2_9
, partition iordr2_154 tablespace iordr2_9
, partition iordr2_155 tablespace iordr2_9
, partition iordr2_156 tablespace iordr2_9
, partition iordr2_157 tablespace iordr2_9
, partition iordr2_158 tablespace iordr2_9
, partition iordr2_159 tablespace iordr2_9
, partition iordr2_160 tablespace iordr2_10
, partition iordr2_161 tablespace iordr2_10
, partition iordr2_162 tablespace iordr2_10
, partition iordr2_163 tablespace iordr2_10
, partition iordr2_164 tablespace iordr2_10
, partition iordr2_165 tablespace iordr2_10
, partition iordr2_166 tablespace iordr2_10
, partition iordr2_167 tablespace iordr2_10
, partition iordr2_168 tablespace iordr2_10
, partition iordr2_169 tablespace iordr2_10
, partition iordr2_170 tablespace iordr2_10
, partition iordr2_171 tablespace iordr2_10
, partition iordr2_172 tablespace iordr2_10
, partition iordr2_173 tablespace iordr2_10
, partition iordr2_174 tablespace iordr2_10
, partition iordr2_175 tablespace iordr2_10
, partition iordr2_176 tablespace iordr2_11
, partition iordr2_177 tablespace iordr2_11
, partition iordr2_178 tablespace iordr2_11
, partition iordr2_179 tablespace iordr2_11
, partition iordr2_180 tablespace iordr2_11
, partition iordr2_181 tablespace iordr2_11
, partition iordr2_182 tablespace iordr2_11
, partition iordr2_183 tablespace iordr2_11
, partition iordr2_184 tablespace iordr2_11
, partition iordr2_185 tablespace iordr2_11
, partition iordr2_186 tablespace iordr2_11
, partition iordr2_187 tablespace iordr2_11
, partition iordr2_188 tablespace iordr2_11
, partition iordr2_189 tablespace iordr2_11
, partition iordr2_190 tablespace iordr2_11
, partition iordr2_191 tablespace iordr2_11
, partition iordr2_192 tablespace iordr2_12
, partition iordr2_193 tablespace iordr2_12
, partition iordr2_194 tablespace iordr2_12
, partition iordr2_195 tablespace iordr2_12
, partition iordr2_196 tablespace iordr2_12
, partition iordr2_197 tablespace iordr2_12
, partition iordr2_198 tablespace iordr2_12
, partition iordr2_199 tablespace iordr2_12
, partition iordr2_200 tablespace iordr2_12
, partition iordr2_201 tablespace iordr2_12
, partition iordr2_202 tablespace iordr2_12
, partition iordr2_203 tablespace iordr2_12
, partition iordr2_204 tablespace iordr2_12
, partition iordr2_205 tablespace iordr2_12
, partition iordr2_206 tablespace iordr2_12
, partition iordr2_207 tablespace iordr2_12
, partition iordr2_208 tablespace iordr2_13
, partition iordr2_209 tablespace iordr2_13
, partition iordr2_210 tablespace iordr2_13
, partition iordr2_211 tablespace iordr2_13
, partition iordr2_212 tablespace iordr2_13
, partition iordr2_213 tablespace iordr2_13
, partition iordr2_214 tablespace iordr2_13
, partition iordr2_215 tablespace iordr2_13
, partition iordr2_216 tablespace iordr2_13
, partition iordr2_217 tablespace iordr2_13
, partition iordr2_218 tablespace iordr2_13
, partition iordr2_219 tablespace iordr2_13
, partition iordr2_220 tablespace iordr2_13
, partition iordr2_221 tablespace iordr2_13
, partition iordr2_222 tablespace iordr2_13
, partition iordr2_223 tablespace iordr2_13
, partition iordr2_224 tablespace iordr2_14
, partition iordr2_225 tablespace iordr2_14
, partition iordr2_226 tablespace iordr2_14
, partition iordr2_227 tablespace iordr2_14
, partition iordr2_228 tablespace iordr2_14
, partition iordr2_229 tablespace iordr2_14
, partition iordr2_230 tablespace iordr2_14
, partition iordr2_231 tablespace iordr2_14
, partition iordr2_232 tablespace iordr2_14
, partition iordr2_233 tablespace iordr2_14
, partition iordr2_234 tablespace iordr2_14
, partition iordr2_235 tablespace iordr2_14
, partition iordr2_236 tablespace iordr2_14
, partition iordr2_237 tablespace iordr2_14
, partition iordr2_238 tablespace iordr2_14
, partition iordr2_239 tablespace iordr2_14
, partition iordr2_240 tablespace iordr2_15
, partition iordr2_241 tablespace iordr2_15
, partition iordr2_242 tablespace iordr2_15
, partition iordr2_243 tablespace iordr2_15
, partition iordr2_244 tablespace iordr2_15
, partition iordr2_245 tablespace iordr2_15
, partition iordr2_246 tablespace iordr2_15
, partition iordr2_247 tablespace iordr2_15
, partition iordr2_248 tablespace iordr2_15
, partition iordr2_249 tablespace iordr2_15
, partition iordr2_250 tablespace iordr2_15
```

```
, partition iordr2_251 tablespace iordr2_15
, partition iordr2_252 tablespace iordr2_15
, partition iordr2_253 tablespace iordr2_15
, partition iordr2_254 tablespace iordr2_15
, partition iordr2_255 tablespace iordr2_15
, partition iordr2_256 tablespace iordr2_16
, partition iordr2_257 tablespace iordr2_16
, partition iordr2_258 tablespace iordr2_16
, partition iordr2_259 tablespace iordr2_16
, partition iordr2_260 tablespace iordr2_16
, partition iordr2_261 tablespace iordr2_16
, partition iordr2_262 tablespace iordr2_16
, partition iordr2_263 tablespace iordr2_16
, partition iordr2_264 tablespace iordr2_16
, partition iordr2_265 tablespace iordr2_16
, partition iordr2_266 tablespace iordr2_16
, partition iordr2_267 tablespace iordr2_16
, partition iordr2_268 tablespace iordr2_16
, partition iordr2_269 tablespace iordr2_16
, partition iordr2_270 tablespace iordr2_16
, partition iordr2_271 tablespace iordr2_16
, partition iordr2_272 tablespace iordr2_17
, partition iordr2_273 tablespace iordr2_17
, partition iordr2_274 tablespace iordr2_17
, partition iordr2_275 tablespace iordr2_17
, partition iordr2_276 tablespace iordr2_17
, partition iordr2_277 tablespace iordr2_17
, partition iordr2_278 tablespace iordr2_17
, partition iordr2_279 tablespace iordr2_17
, partition iordr2_280 tablespace iordr2_17
, partition iordr2_281 tablespace iordr2_17
, partition iordr2_282 tablespace iordr2_17
, partition iordr2_283 tablespace iordr2_17
, partition iordr2_284 tablespace iordr2_17
, partition iordr2_285 tablespace iordr2_17
, partition iordr2_286 tablespace iordr2_17
, partition iordr2_287 tablespace iordr2_17
, partition iordr2_288 tablespace iordr2_18
, partition iordr2_289 tablespace iordr2_18
, partition iordr2_290 tablespace iordr2_18
, partition iordr2_291 tablespace iordr2_18
, partition iordr2_292 tablespace iordr2_18
, partition iordr2_293 tablespace iordr2_18
, partition iordr2_294 tablespace iordr2_18
, partition iordr2_295 tablespace iordr2_18
, partition iordr2_296 tablespace iordr2_18
, partition iordr2_297 tablespace iordr2_18
, partition iordr2_298 tablespace iordr2_18
, partition iordr2_299 tablespace iordr2_18
, partition iordr2_300 tablespace iordr2_18
, partition iordr2_301 tablespace iordr2_18
, partition iordr2_302 tablespace iordr2_18
, partition iordr2_303 tablespace iordr2_18
, partition iordr2_304 tablespace iordr2_19
, partition iordr2_305 tablespace iordr2_19
, partition iordr2_306 tablespace iordr2_19
, partition iordr2_307 tablespace iordr2_19
, partition iordr2_308 tablespace iordr2_19
, partition iordr2_309 tablespace iordr2_19
, partition iordr2_310 tablespace iordr2_19
, partition iordr2_311 tablespace iordr2_19
, partition iordr2_312 tablespace iordr2_19
, partition iordr2_313 tablespace iordr2_19
, partition iordr2_314 tablespace iordr2_19
, partition iordr2_315 tablespace iordr2_19
, partition iordr2_316 tablespace iordr2_19
, partition iordr2_317 tablespace iordr2_19
, partition iordr2_318 tablespace iordr2_19
, partition iordr2_319 tablespace iordr2_19
, partition iordr2_320 tablespace iordr2_20
, partition iordr2_321 tablespace iordr2_20
, partition iordr2_322 tablespace iordr2_20
, partition iordr2_323 tablespace iordr2_20
, partition iordr2_324 tablespace iordr2_20
, partition iordr2_325 tablespace iordr2_20
, partition iordr2_326 tablespace iordr2_20
, partition iordr2_327 tablespace iordr2_20
, partition iordr2_328 tablespace iordr2_20
, partition iordr2_329 tablespace iordr2_20
, partition iordr2_330 tablespace iordr2_20
, partition iordr2_331 tablespace iordr2_20
, partition iordr2_332 tablespace iordr2_20
, partition iordr2_333 tablespace iordr2_20
, partition iordr2_334 tablespace iordr2_20
, partition iordr2_335 tablespace iordr2_20
, partition iordr2_336 tablespace iordr2_21
, partition iordr2_337 tablespace iordr2_21
, partition iordr2_338 tablespace iordr2_21
, partition iordr2_339 tablespace iordr2_21
, partition iordr2_340 tablespace iordr2_21
, partition iordr2_341 tablespace iordr2_21
, partition iordr2_342 tablespace iordr2_21
, partition iordr2_343 tablespace iordr2_21
, partition iordr2_344 tablespace iordr2_21
, partition iordr2_345 tablespace iordr2_21
, partition iordr2_346 tablespace iordr2_21
, partition iordr2_347 tablespace iordr2_21
, partition iordr2_348 tablespace iordr2_21
, partition iordr2_349 tablespace iordr2_21
, partition iordr2_350 tablespace iordr2_21
, partition iordr2_351 tablespace iordr2_21
, partition iordr2_352 tablespace iordr2_22
, partition iordr2_353 tablespace iordr2_22
, partition iordr2_354 tablespace iordr2_22
, partition iordr2_355 tablespace iordr2_22
, partition iordr2_356 tablespace iordr2_22
, partition iordr2_357 tablespace iordr2_22
, partition iordr2_358 tablespace iordr2_22
, partition iordr2_359 tablespace iordr2_22
, partition iordr2_360 tablespace iordr2_22
, partition iordr2_361 tablespace iordr2_22
, partition iordr2_362 tablespace iordr2_22
, partition iordr2_363 tablespace iordr2_22
, partition iordr2_364 tablespace iordr2_22
, partition iordr2_365 tablespace iordr2_22
, partition iordr2_366 tablespace iordr2_22
, partition iordr2_367 tablespace iordr2_22
, partition iordr2_368 tablespace iordr2_23
, partition iordr2_369 tablespace iordr2_23
, partition iordr2_370 tablespace iordr2_23
, partition iordr2_371 tablespace iordr2_23
, partition iordr2_372 tablespace iordr2_23
, partition iordr2_373 tablespace iordr2_23
, partition iordr2_374 tablespace iordr2_23
, partition iordr2_375 tablespace iordr2_23
, partition iordr2_376 tablespace iordr2_23
, partition iordr2_377 tablespace iordr2_23
, partition iordr2_378 tablespace iordr2_23
, partition iordr2_379 tablespace iordr2_23
, partition iordr2_380 tablespace iordr2_23
, partition iordr2_381 tablespace iordr2_23
, partition iordr2_382 tablespace iordr2_23
, partition iordr2_383 tablespace iordr2_23
, partition iordr2_384 tablespace iordr2_24
, partition iordr2_385 tablespace iordr2_24
, partition iordr2_386 tablespace iordr2_24
, partition iordr2_387 tablespace iordr2_24
, partition iordr2_388 tablespace iordr2_24
, partition iordr2_389 tablespace iordr2_24
, partition iordr2_390 tablespace iordr2_24
, partition iordr2_391 tablespace iordr2_24
, partition iordr2_392 tablespace iordr2_24
, partition iordr2_393 tablespace iordr2_24
, partition iordr2_394 tablespace iordr2_24
, partition iordr2_395 tablespace iordr2_24
, partition iordr2_396 tablespace iordr2_24
, partition iordr2_397 tablespace iordr2_24
, partition iordr2_398 tablespace iordr2_24
, partition iordr2_399 tablespace iordr2_24
, partition iordr2_400 tablespace iordr2_25
, partition iordr2_401 tablespace iordr2_25
, partition iordr2_402 tablespace iordr2_25
, partition iordr2_403 tablespace iordr2_25
, partition iordr2_404 tablespace iordr2_25
, partition iordr2_405 tablespace iordr2_25
, partition iordr2_406 tablespace iordr2_25
, partition iordr2_407 tablespace iordr2_25
, partition iordr2_408 tablespace iordr2_25
, partition iordr2_409 tablespace iordr2_25
, partition iordr2_410 tablespace iordr2_25
, partition iordr2_411 tablespace iordr2_25
, partition iordr2_412 tablespace iordr2_25
, partition iordr2_413 tablespace iordr2_25
, partition iordr2_414 tablespace iordr2_25
, partition iordr2_415 tablespace iordr2_25
, partition iordr2_416 tablespace iordr2_26
, partition iordr2_417 tablespace iordr2_26
, partition iordr2_418 tablespace iordr2_26
, partition iordr2_419 tablespace iordr2_26
, partition iordr2_420 tablespace iordr2_26
, partition iordr2_421 tablespace iordr2_26
, partition iordr2_422 tablespace iordr2_26
, partition iordr2_423 tablespace iordr2_26
, partition iordr2_424 tablespace iordr2_26
```

```
, partition iordr2_425 tablespace iordr2_26
, partition iordr2_426 tablespace iordr2_26
, partition iordr2_427 tablespace iordr2_26
, partition iordr2_428 tablespace iordr2_26
, partition iordr2_429 tablespace iordr2_26
, partition iordr2_430 tablespace iordr2_26
, partition iordr2_431 tablespace iordr2_26
)
  parallel 256
  pctfree 25  initrans 4
  storage ( buffer_pool default  )
  compute statistics

  ;
    set echo off
    spool off
    exit sql.sqlcode;
```

createindex_istok.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug
19 13:26:43 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createindex_istok.log ;
    set echo on ;
    drop index istok ;
      create unique index istok on stok ( s_i_id
, s_w_id )
  local (
partition istok_0 tablespace istok_0
, partition istok_1 tablespace istok_1
, partition istok_2 tablespace istok_2
, partition istok_3 tablespace istok_3
, partition istok_4 tablespace istok_4
, partition istok_5 tablespace istok_5
, partition istok_6 tablespace istok_6
, partition istok_7 tablespace istok_7
, partition istok_8 tablespace istok_8
, partition istok_9 tablespace istok_9
, partition istok_10 tablespace istok_10
, partition istok_11 tablespace istok_11
, partition istok_12 tablespace istok_12
, partition istok_13 tablespace istok_13
, partition istok_14 tablespace istok_14
, partition istok_15 tablespace istok_15
, partition istok_16 tablespace istok_16
, partition istok_17 tablespace istok_17
, partition istok_18 tablespace istok_18
, partition istok_19 tablespace istok_19
, partition istok_20 tablespace istok_20
, partition istok_21 tablespace istok_21
, partition istok_22 tablespace istok_22
, partition istok_23 tablespace istok_23
, partition istok_24 tablespace istok_24
, partition istok_25 tablespace istok_25
, partition istok_26 tablespace istok_26
)
  parallel 256
  pctfree 1  initrans 3
  storage ( buffer_pool default  )
  compute statistics

  ;
    set echo off
    spool off
    exit sql.sqlcode;
```

createindex_iware.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreateindex.sh Thu Aug
19 13:26:43 PDT 2010 */
set timing on
    set sqlblanklines on
    drop index iware ;
      create unique index iware on ware ( w_id )
  local (
partition iware_0 tablespace misc_0
, partition iware_1 tablespace misc_1
, partition iware_2 tablespace misc_2
, partition iware_3 tablespace misc_3
, partition iware_4 tablespace misc_4
, partition iware_5 tablespace misc_5
, partition iware_6 tablespace misc_6
, partition iware_7 tablespace misc_7
, partition iware_8 tablespace misc_8
, partition iware_9 tablespace misc_9
, partition iware_10 tablespace misc_10
, partition iware_11 tablespace misc_11
, partition iware_12 tablespace misc_12
, partition iware_13 tablespace misc_13
, partition iware_14 tablespace misc_14
, partition iware_15 tablespace misc_15
, partition iware_16 tablespace misc_16
, partition iware_17 tablespace misc_17
, partition iware_18 tablespace misc_18
, partition iware_19 tablespace misc_19
, partition iware_20 tablespace misc_20
, partition iware_21 tablespace misc_21
, partition iware_22 tablespace misc_22
, partition iware_23 tablespace misc_23
, partition iware_24 tablespace misc_24
, partition iware_25 tablespace misc_25
, partition iware_26 tablespace misc_26
)
  parallel 256
  pctfree 1  initrans 3
  storage ( buffer_pool default  )
  compute statistics

  ;
    set echo off
    spool off
    exit sql.sqlcode;
```

createstoredprocs.sql

```
spool createstoreprocs.log
@tkvcinin.sql
spool off
exit sql.sqlcode;
```

createtable_cust.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatetable.sh Thu Aug 19
13:21:28 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createtable_cust.log
    set echo on
      drop cluster custcluster including tables ;

create cluster custcluster (
  c_id number
, c_d_id number
, c_w_id number
  )
  single table
  hashkeys 2700000000
  hash is ( (c_w_id * 30000 + c_id * 10 + c_d_id - 30011) )
  size 850
  pctfree 0  initrans 3
  storage ( buffer_pool recycle ) parallel ( degree 1024 )
  partition by range( c_w_id ) (
partition cust_0 values less than ( 90001 ) tablespace cust_0
, partition cust_1 values less than ( 180001 ) tablespace cust_1
, partition cust_2 values less than ( 270001 ) tablespace cust_2
, partition cust_3 values less than ( 360001 ) tablespace cust_3
, partition cust_4 values less than ( 450001 ) tablespace cust_4
, partition cust_5 values less than ( 540001 ) tablespace cust_5
, partition cust_6 values less than ( 630001 ) tablespace cust_6
, partition cust_7 values less than ( 720001 ) tablespace cust_7
, partition cust_8 values less than ( 810001 ) tablespace cust_8
, partition cust_9 values less than ( 900001 ) tablespace cust_9
, partition cust_10 values less than ( 990001 ) tablespace cust_10
, partition cust_11 values less than ( 1080001 ) tablespace cust_11
, partition cust_12 values less than ( 1170001 ) tablespace cust_12
, partition cust_13 values less than ( 1260001 ) tablespace cust_13
, partition cust_14 values less than ( 1350001 ) tablespace cust_14
, partition cust_15 values less than ( 1440001 ) tablespace cust_15
, partition cust_16 values less than ( 1530001 ) tablespace cust_16
, partition cust_17 values less than ( 1620001 ) tablespace cust_17
, partition cust_18 values less than ( 1710001 ) tablespace cust_18
, partition cust_19 values less than ( 1800001 ) tablespace cust_19
, partition cust_20 values less than ( 1890001 ) tablespace cust_20
, partition cust_21 values less than ( 1980001 ) tablespace cust_21
, partition cust_22 values less than ( 2070001 ) tablespace cust_22
, partition cust_23 values less than ( 2160001 ) tablespace cust_23
, partition cust_24 values less than ( 2250001 ) tablespace cust_24
, partition cust_25 values less than ( 2340001 ) tablespace cust_25
, partition cust_26 values less than ( maxvalue ) tablespace cust_26
)

  ;
```

```
create table cust (
  c_id number
, c_d_id number
, c_w_id number
, c_discount number
, c_credit char(2)
, c_last varchar2(16)
, c_first varchar2(16)
, c_credit_lim number
, c_balance number
, c_ytd_payment number
, c_payment_cnt number
, c_delivery_cnt number
, c_street_1 varchar2(20)
, c_street_2 varchar2(20)
, c_city varchar2(20)
, c_state char(2)
, c_zip char(9)
, c_phone char(16)
, c_since date
, c_middle char(2)
, c_data varchar2(500)
)
cluster custcluster (
  c_id
, c_d_id
, c_w_id
);
    set echo off
    spool off
    exit sql.sqlcode;
```

createtable_dist.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatetable.sh Thu Aug 19
13:21:30 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createtable_dist.log
    set echo on
      drop cluster distcluster including tables ;

create cluster distcluster (
  d_id number
, d_w_id number
  )
  single table
  hashkeys 900000
  hash is ( (((d_w_id - 1 ) * 10) + d_id - 1) )
  size 3496
    initrans 4
  storage ( buffer_pool default ) parallel (degree 32)
  partition by range( d_w_id ) (
partition dist_0 values less than ( 90001 ) tablespace misc_0
, partition dist_1 values less than ( 180001 ) tablespace misc_1
, partition dist_2 values less than ( 270001 ) tablespace misc_2
, partition dist_3 values less than ( 360001 ) tablespace misc_3
, partition dist_4 values less than ( 450001 ) tablespace misc_4
, partition dist_5 values less than ( 540001 ) tablespace misc_5
, partition dist_6 values less than ( 630001 ) tablespace misc_6
, partition dist_7 values less than ( 720001 ) tablespace misc_7
, partition dist_8 values less than ( 810001 ) tablespace misc_8
, partition dist_9 values less than ( 900001 ) tablespace misc_9
, partition dist_10 values less than ( 990001 ) tablespace misc_10
, partition dist_11 values less than ( 1080001 ) tablespace misc_11
, partition dist_12 values less than ( 1170001 ) tablespace misc_12
, partition dist_13 values less than ( 1260001 ) tablespace misc_13
, partition dist_14 values less than ( 1350001 ) tablespace misc_14
, partition dist_15 values less than ( 1440001 ) tablespace misc_15
, partition dist_16 values less than ( 1530001 ) tablespace misc_16
, partition dist_17 values less than ( 1620001 ) tablespace misc_17
, partition dist_18 values less than ( 1710001 ) tablespace misc_18
, partition dist_19 values less than ( 1800001 ) tablespace misc_19
, partition dist_20 values less than ( 1890001 ) tablespace misc_20
, partition dist_21 values less than ( 1980001 ) tablespace misc_21
, partition dist_22 values less than ( 2070001 ) tablespace misc_22
, partition dist_23 values less than ( 2160001 ) tablespace misc_23
, partition dist_24 values less than ( 2250001 ) tablespace misc_24
, partition dist_25 values less than ( 2340001 ) tablespace misc_25
, partition dist_26 values less than ( maxvalue ) tablespace misc_26
)

  ;

create table dist (
  d_id number
, d_w_id number
, d_ytd number
, d_next_o_id number
, d_tax number
, d_name varchar2(10)
, d_street_1 varchar2(20)
, d_street_2 varchar2(20)
, d_city varchar2(20)
, d_state char(2)
, d_zip char(9)
)
cluster distcluster (
  d_id
, d_w_id
);
    set echo off
    spool off
    exit sql.sqlcode;
```

createtable_hist.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatetable.sh Thu Aug 19
13:21:32 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createtable_hist.log
    set echo on
      drop table hist ;

create table hist (
  h_c_id number
, h_c_d_id number
, h_c_w_id number
, h_d_id number
, h_w_id number
, h_date date
, h_amount number
, h_data varchar2(24)
)
  partition by range( h_w_id ) (
partition hist_0 values less than ( 5626 ) tablespace hist_0
, partition hist_1 values less than ( 11251 ) tablespace hist_0
, partition hist_2 values less than ( 16876 ) tablespace hist_0
, partition hist_3 values less than ( 22501 ) tablespace hist_0
, partition hist_4 values less than ( 28126 ) tablespace hist_0
, partition hist_5 values less than ( 33751 ) tablespace hist_0
, partition hist_6 values less than ( 39376 ) tablespace hist_0
, partition hist_7 values less than ( 45001 ) tablespace hist_0
, partition hist_8 values less than ( 50626 ) tablespace hist_0
, partition hist_9 values less than ( 56251 ) tablespace hist_0
, partition hist_10 values less than ( 61876 ) tablespace hist_0
, partition hist_11 values less than ( 67501 ) tablespace hist_0
, partition hist_12 values less than ( 73126 ) tablespace hist_0
, partition hist_13 values less than ( 78751 ) tablespace hist_0
, partition hist_14 values less than ( 84376 ) tablespace hist_0
, partition hist_15 values less than ( 90001 ) tablespace hist_0
, partition hist_16 values less than ( 95626 ) tablespace hist_1
, partition hist_17 values less than ( 101251 ) tablespace hist_1
, partition hist_18 values less than ( 106876 ) tablespace hist_1
, partition hist_19 values less than ( 112501 ) tablespace hist_1
, partition hist_20 values less than ( 118126 ) tablespace hist_1
, partition hist_21 values less than ( 123751 ) tablespace hist_1
, partition hist_22 values less than ( 129376 ) tablespace hist_1
, partition hist_23 values less than ( 135001 ) tablespace hist_1
, partition hist_24 values less than ( 140626 ) tablespace hist_1
, partition hist_25 values less than ( 146251 ) tablespace hist_1
, partition hist_26 values less than ( 151876 ) tablespace hist_1
, partition hist_27 values less than ( 157501 ) tablespace hist_1
, partition hist_28 values less than ( 163126 ) tablespace hist_1
, partition hist_29 values less than ( 168751 ) tablespace hist_1
, partition hist_30 values less than ( 174376 ) tablespace hist_1
, partition hist_31 values less than ( 180001 ) tablespace hist_1
, partition hist_32 values less than ( 185626 ) tablespace hist_2
, partition hist_33 values less than ( 191251 ) tablespace hist_2
, partition hist_34 values less than ( 196876 ) tablespace hist_2
, partition hist_35 values less than ( 202501 ) tablespace hist_2
, partition hist_36 values less than ( 208126 ) tablespace hist_2
, partition hist_37 values less than ( 213751 ) tablespace hist_2
, partition hist_38 values less than ( 219376 ) tablespace hist_2
, partition hist_39 values less than ( 225001 ) tablespace hist_2
, partition hist_40 values less than ( 230626 ) tablespace hist_2
, partition hist_41 values less than ( 236251 ) tablespace hist_2
, partition hist_42 values less than ( 241876 ) tablespace hist_2
, partition hist_43 values less than ( 247501 ) tablespace hist_2
, partition hist_44 values less than ( 253126 ) tablespace hist_2
, partition hist_45 values less than ( 258751 ) tablespace hist_2
, partition hist_46 values less than ( 264376 ) tablespace hist_2
, partition hist_47 values less than ( 270001 ) tablespace hist_2
```

```
, partition hist_48 values less than ( 275626 ) tablespace hist_3
, partition hist_49 values less than ( 281251 ) tablespace hist_3
, partition hist_50 values less than ( 286876 ) tablespace hist_3
, partition hist_51 values less than ( 292501 ) tablespace hist_3
, partition hist_52 values less than ( 298126 ) tablespace hist_3
, partition hist_53 values less than ( 303751 ) tablespace hist_3
, partition hist_54 values less than ( 309376 ) tablespace hist_3
, partition hist_55 values less than ( 315001 ) tablespace hist_3
, partition hist_56 values less than ( 320626 ) tablespace hist_3
, partition hist_57 values less than ( 326251 ) tablespace hist_3
, partition hist_58 values less than ( 331876 ) tablespace hist_3
, partition hist_59 values less than ( 337501 ) tablespace hist_3
, partition hist_60 values less than ( 343126 ) tablespace hist_3
, partition hist_61 values less than ( 348751 ) tablespace hist_3
, partition hist_62 values less than ( 354376 ) tablespace hist_3
, partition hist_63 values less than ( 360001 ) tablespace hist_3
, partition hist_64 values less than ( 365626 ) tablespace hist_4
, partition hist_65 values less than ( 371251 ) tablespace hist_4
, partition hist_66 values less than ( 376876 ) tablespace hist_4
, partition hist_67 values less than ( 382501 ) tablespace hist_4
, partition hist_68 values less than ( 388126 ) tablespace hist_4
, partition hist_69 values less than ( 393751 ) tablespace hist_4
, partition hist_70 values less than ( 399376 ) tablespace hist_4
, partition hist_71 values less than ( 405001 ) tablespace hist_4
, partition hist_72 values less than ( 410626 ) tablespace hist_4
, partition hist_73 values less than ( 416251 ) tablespace hist_4
, partition hist_74 values less than ( 421876 ) tablespace hist_4
, partition hist_75 values less than ( 427501 ) tablespace hist_4
, partition hist_76 values less than ( 433126 ) tablespace hist_4
, partition hist_77 values less than ( 438751 ) tablespace hist_4
, partition hist_78 values less than ( 444376 ) tablespace hist_4
, partition hist_79 values less than ( 450001 ) tablespace hist_4
, partition hist_80 values less than ( 455626 ) tablespace hist_5
, partition hist_81 values less than ( 461251 ) tablespace hist_5
, partition hist_82 values less than ( 466876 ) tablespace hist_5
, partition hist_83 values less than ( 472501 ) tablespace hist_5
, partition hist_84 values less than ( 478126 ) tablespace hist_5
, partition hist_85 values less than ( 483751 ) tablespace hist_5
, partition hist_86 values less than ( 489376 ) tablespace hist_5
, partition hist_87 values less than ( 495001 ) tablespace hist_5
, partition hist_88 values less than ( 500626 ) tablespace hist_5
, partition hist_89 values less than ( 506251 ) tablespace hist_5
, partition hist_90 values less than ( 511876 ) tablespace hist_5
, partition hist_91 values less than ( 517501 ) tablespace hist_5
, partition hist_92 values less than ( 523126 ) tablespace hist_5
, partition hist_93 values less than ( 528751 ) tablespace hist_5
, partition hist_94 values less than ( 534376 ) tablespace hist_5
, partition hist_95 values less than ( 540001 ) tablespace hist_5
, partition hist_96 values less than ( 545626 ) tablespace hist_6
, partition hist_97 values less than ( 551251 ) tablespace hist_6
, partition hist_98 values less than ( 556876 ) tablespace hist_6
, partition hist_99 values less than ( 562501 ) tablespace hist_6
, partition hist_100 values less than ( 568126 ) tablespace hist_6
, partition hist_101 values less than ( 573751 ) tablespace hist_6
, partition hist_102 values less than ( 579376 ) tablespace hist_6
, partition hist_103 values less than ( 585001 ) tablespace hist_6
, partition hist_104 values less than ( 590626 ) tablespace hist_6
, partition hist_105 values less than ( 596251 ) tablespace hist_6
, partition hist_106 values less than ( 601876 ) tablespace hist_6
, partition hist_107 values less than ( 607501 ) tablespace hist_6
, partition hist_108 values less than ( 613126 ) tablespace hist_6
, partition hist_109 values less than ( 618751 ) tablespace hist_6
, partition hist_110 values less than ( 624376 ) tablespace hist_6
, partition hist_111 values less than ( 630001 ) tablespace hist_6
, partition hist_112 values less than ( 635626 ) tablespace hist_7
, partition hist_113 values less than ( 641251 ) tablespace hist_7
, partition hist_114 values less than ( 646876 ) tablespace hist_7
, partition hist_115 values less than ( 652501 ) tablespace hist_7
, partition hist_116 values less than ( 658126 ) tablespace hist_7
, partition hist_117 values less than ( 663751 ) tablespace hist_7
, partition hist_118 values less than ( 669376 ) tablespace hist_7
, partition hist_119 values less than ( 675001 ) tablespace hist_7
, partition hist_120 values less than ( 680626 ) tablespace hist_7
, partition hist_121 values less than ( 686251 ) tablespace hist_7
, partition hist_122 values less than ( 691876 ) tablespace hist_7
, partition hist_123 values less than ( 697501 ) tablespace hist_7
, partition hist_124 values less than ( 703126 ) tablespace hist_7
, partition hist_125 values less than ( 708751 ) tablespace hist_7
, partition hist_126 values less than ( 714376 ) tablespace hist_7
, partition hist_127 values less than ( 720001 ) tablespace hist_7
, partition hist_128 values less than ( 725626 ) tablespace hist_8
, partition hist_129 values less than ( 731251 ) tablespace hist_8
, partition hist_130 values less than ( 736876 ) tablespace hist_8
, partition hist_131 values less than ( 742501 ) tablespace hist_8
, partition hist_132 values less than ( 748126 ) tablespace hist_8
, partition hist_133 values less than ( 753751 ) tablespace hist_8
, partition hist_134 values less than ( 759376 ) tablespace hist_8
, partition hist_135 values less than ( 765001 ) tablespace hist_8
, partition hist_136 values less than ( 770626 ) tablespace hist_8
, partition hist_137 values less than ( 776251 ) tablespace hist_8
, partition hist_138 values less than ( 781876 ) tablespace hist_8
, partition hist_139 values less than ( 787501 ) tablespace hist_8
, partition hist_140 values less than ( 793126 ) tablespace hist_8
, partition hist_141 values less than ( 798751 ) tablespace hist_8
, partition hist_142 values less than ( 804376 ) tablespace hist_8
, partition hist_143 values less than ( 810001 ) tablespace hist_8
, partition hist_144 values less than ( 815626 ) tablespace hist_9
, partition hist_145 values less than ( 821251 ) tablespace hist_9
, partition hist_146 values less than ( 826876 ) tablespace hist_9
, partition hist_147 values less than ( 832501 ) tablespace hist_9
, partition hist_148 values less than ( 838126 ) tablespace hist_9
, partition hist_149 values less than ( 843751 ) tablespace hist_9
, partition hist_150 values less than ( 849376 ) tablespace hist_9
, partition hist_151 values less than ( 855001 ) tablespace hist_9
, partition hist_152 values less than ( 860626 ) tablespace hist_9
, partition hist_153 values less than ( 866251 ) tablespace hist_9
, partition hist_154 values less than ( 871876 ) tablespace hist_9
, partition hist_155 values less than ( 877501 ) tablespace hist_9
, partition hist_156 values less than ( 883126 ) tablespace hist_9
, partition hist_157 values less than ( 888751 ) tablespace hist_9
, partition hist_158 values less than ( 894376 ) tablespace hist_9
, partition hist_159 values less than ( 900001 ) tablespace hist_9
, partition hist_160 values less than ( 905626 ) tablespace hist_10
, partition hist_161 values less than ( 911251 ) tablespace hist_10
, partition hist_162 values less than ( 916876 ) tablespace hist_10
, partition hist_163 values less than ( 922501 ) tablespace hist_10
, partition hist_164 values less than ( 928126 ) tablespace hist_10
, partition hist_165 values less than ( 933751 ) tablespace hist_10
, partition hist_166 values less than ( 939376 ) tablespace hist_10
, partition hist_167 values less than ( 945001 ) tablespace hist_10
, partition hist_168 values less than ( 950626 ) tablespace hist_10
, partition hist_169 values less than ( 956251 ) tablespace hist_10
, partition hist_170 values less than ( 961876 ) tablespace hist_10
, partition hist_171 values less than ( 967501 ) tablespace hist_10
, partition hist_172 values less than ( 973126 ) tablespace hist_10
, partition hist_173 values less than ( 978751 ) tablespace hist_10
, partition hist_174 values less than ( 984376 ) tablespace hist_10
, partition hist_175 values less than ( 990001 ) tablespace hist_10
, partition hist_176 values less than ( 995626 ) tablespace hist_11
, partition hist_177 values less than ( 1001251 ) tablespace hist_11
, partition hist_178 values less than ( 1006876 ) tablespace hist_11
, partition hist_179 values less than ( 1012501 ) tablespace hist_11
, partition hist_180 values less than ( 1018126 ) tablespace hist_11
, partition hist_181 values less than ( 1023751 ) tablespace hist_11
, partition hist_182 values less than ( 1029376 ) tablespace hist_11
, partition hist_183 values less than ( 1035001 ) tablespace hist_11
, partition hist_184 values less than ( 1040626 ) tablespace hist_11
, partition hist_185 values less than ( 1046251 ) tablespace hist_11
, partition hist_186 values less than ( 1051876 ) tablespace hist_11
, partition hist_187 values less than ( 1057501 ) tablespace hist_11
, partition hist_188 values less than ( 1063126 ) tablespace hist_11
, partition hist_189 values less than ( 1068751 ) tablespace hist_11
, partition hist_190 values less than ( 1074376 ) tablespace hist_11
, partition hist_191 values less than ( 1080001 ) tablespace hist_12
, partition hist_192 values less than ( 1085626 ) tablespace hist_12
, partition hist_193 values less than ( 1091251 ) tablespace hist_12
, partition hist_194 values less than ( 1096876 ) tablespace hist_12
, partition hist_195 values less than ( 1102501 ) tablespace hist_12
, partition hist_196 values less than ( 1108126 ) tablespace hist_12
, partition hist_197 values less than ( 1113751 ) tablespace hist_12
, partition hist_198 values less than ( 1119376 ) tablespace hist_12
, partition hist_199 values less than ( 1125001 ) tablespace hist_12
, partition hist_200 values less than ( 1130626 ) tablespace hist_12
, partition hist_201 values less than ( 1136251 ) tablespace hist_12
, partition hist_202 values less than ( 1141876 ) tablespace hist_12
, partition hist_203 values less than ( 1147501 ) tablespace hist_12
, partition hist_204 values less than ( 1153126 ) tablespace hist_12
, partition hist_205 values less than ( 1158751 ) tablespace hist_12
, partition hist_206 values less than ( 1164376 ) tablespace hist_12
, partition hist_207 values less than ( 1170001 ) tablespace hist_13
, partition hist_208 values less than ( 1175626 ) tablespace hist_13
, partition hist_209 values less than ( 1181251 ) tablespace hist_13
, partition hist_210 values less than ( 1186876 ) tablespace hist_13
, partition hist_211 values less than ( 1192501 ) tablespace hist_13
, partition hist_212 values less than ( 1198126 ) tablespace hist_13
, partition hist_213 values less than ( 1203751 ) tablespace hist_13
, partition hist_214 values less than ( 1209376 ) tablespace hist_13
, partition hist_215 values less than ( 1215001 ) tablespace hist_13
, partition hist_216 values less than ( 1220626 ) tablespace hist_13
, partition hist_217 values less than ( 1226251 ) tablespace hist_13
, partition hist_218 values less than ( 1231876 ) tablespace hist_13
, partition hist_219 values less than ( 1237501 ) tablespace hist_13
, partition hist_220 values less than ( 1243126 ) tablespace hist_13
, partition hist_221 values less than ( 1248751 ) tablespace hist_13
```

```
, partition hist_222 values less than ( 1254376 ) tablespace hist_13
, partition hist_223 values less than ( 1260001 ) tablespace hist_13
, partition hist_224 values less than ( 1265626 ) tablespace hist_14
, partition hist_225 values less than ( 1271251 ) tablespace hist_14
, partition hist_226 values less than ( 1276876 ) tablespace hist_14
, partition hist_227 values less than ( 1282501 ) tablespace hist_14
, partition hist_228 values less than ( 1288126 ) tablespace hist_14
, partition hist_229 values less than ( 1293751 ) tablespace hist_14
, partition hist_230 values less than ( 1299376 ) tablespace hist_14
, partition hist_231 values less than ( 1305001 ) tablespace hist_14
, partition hist_232 values less than ( 1310626 ) tablespace hist_14
, partition hist_233 values less than ( 1316251 ) tablespace hist_14
, partition hist_234 values less than ( 1321876 ) tablespace hist_14
, partition hist_235 values less than ( 1327501 ) tablespace hist_14
, partition hist_236 values less than ( 1333126 ) tablespace hist_14
, partition hist_237 values less than ( 1338751 ) tablespace hist_14
, partition hist_238 values less than ( 1344376 ) tablespace hist_14
, partition hist_239 values less than ( 1350001 ) tablespace hist_14
, partition hist_240 values less than ( 1355626 ) tablespace hist_15
, partition hist_241 values less than ( 1361251 ) tablespace hist_15
, partition hist_242 values less than ( 1366876 ) tablespace hist_15
, partition hist_243 values less than ( 1372501 ) tablespace hist_15
, partition hist_244 values less than ( 1378126 ) tablespace hist_15
, partition hist_245 values less than ( 1383751 ) tablespace hist_15
, partition hist_246 values less than ( 1389376 ) tablespace hist_15
, partition hist_247 values less than ( 1395001 ) tablespace hist_15
, partition hist_248 values less than ( 1400626 ) tablespace hist_15
, partition hist_249 values less than ( 1406251 ) tablespace hist_15
, partition hist_250 values less than ( 1411876 ) tablespace hist_15
, partition hist_251 values less than ( 1417501 ) tablespace hist_15
, partition hist_252 values less than ( 1423126 ) tablespace hist_15
, partition hist_253 values less than ( 1428751 ) tablespace hist_15
, partition hist_254 values less than ( 1434376 ) tablespace hist_15
, partition hist_255 values less than ( 1440001 ) tablespace hist_15
, partition hist_256 values less than ( 1445626 ) tablespace hist_16
, partition hist_257 values less than ( 1451251 ) tablespace hist_16
, partition hist_258 values less than ( 1456876 ) tablespace hist_16
, partition hist_259 values less than ( 1462501 ) tablespace hist_16
, partition hist_260 values less than ( 1468126 ) tablespace hist_16
, partition hist_261 values less than ( 1473751 ) tablespace hist_16
, partition hist_262 values less than ( 1479376 ) tablespace hist_16
, partition hist_263 values less than ( 1485001 ) tablespace hist_16
, partition hist_264 values less than ( 1490626 ) tablespace hist_16
, partition hist_265 values less than ( 1496251 ) tablespace hist_16
, partition hist_266 values less than ( 1501876 ) tablespace hist_16
, partition hist_267 values less than ( 1507501 ) tablespace hist_16
, partition hist_268 values less than ( 1513126 ) tablespace hist_16
, partition hist_269 values less than ( 1518751 ) tablespace hist_16
, partition hist_270 values less than ( 1524376 ) tablespace hist_16
, partition hist_271 values less than ( 1530001 ) tablespace hist_16
, partition hist_272 values less than ( 1535626 ) tablespace hist_17
, partition hist_273 values less than ( 1541251 ) tablespace hist_17
, partition hist_274 values less than ( 1546876 ) tablespace hist_17
, partition hist_275 values less than ( 1552501 ) tablespace hist_17
, partition hist_276 values less than ( 1558126 ) tablespace hist_17
, partition hist_277 values less than ( 1563751 ) tablespace hist_17
, partition hist_278 values less than ( 1569376 ) tablespace hist_17
, partition hist_279 values less than ( 1575001 ) tablespace hist_17
, partition hist_280 values less than ( 1580626 ) tablespace hist_17
, partition hist_281 values less than ( 1586251 ) tablespace hist_17
, partition hist_282 values less than ( 1591876 ) tablespace hist_17
, partition hist_283 values less than ( 1597501 ) tablespace hist_17
, partition hist_284 values less than ( 1603126 ) tablespace hist_17
, partition hist_285 values less than ( 1608751 ) tablespace hist_17
, partition hist_286 values less than ( 1614376 ) tablespace hist_17
, partition hist_287 values less than ( 1620001 ) tablespace hist_17
, partition hist_288 values less than ( 1625626 ) tablespace hist_18
, partition hist_289 values less than ( 1631251 ) tablespace hist_18
, partition hist_290 values less than ( 1636876 ) tablespace hist_18
, partition hist_291 values less than ( 1642501 ) tablespace hist_18
, partition hist_292 values less than ( 1648126 ) tablespace hist_18
, partition hist_293 values less than ( 1653751 ) tablespace hist_18
, partition hist_294 values less than ( 1659376 ) tablespace hist_18
, partition hist_295 values less than ( 1665001 ) tablespace hist_18
, partition hist_296 values less than ( 1670626 ) tablespace hist_18
, partition hist_297 values less than ( 1676251 ) tablespace hist_18
, partition hist_298 values less than ( 1681876 ) tablespace hist_18
, partition hist_299 values less than ( 1687501 ) tablespace hist_18
, partition hist_300 values less than ( 1693126 ) tablespace hist_18
, partition hist_301 values less than ( 1698751 ) tablespace hist_18
, partition hist_302 values less than ( 1704376 ) tablespace hist_18
, partition hist_303 values less than ( 1710001 ) tablespace hist_18
, partition hist_304 values less than ( 1715626 ) tablespace hist_19
, partition hist_305 values less than ( 1721251 ) tablespace hist_19
, partition hist_306 values less than ( 1726876 ) tablespace hist_19
, partition hist_307 values less than ( 1732501 ) tablespace hist_19
, partition hist_308 values less than ( 1738126 ) tablespace hist_19
, partition hist_309 values less than ( 1743751 ) tablespace hist_19
, partition hist_310 values less than ( 1749376 ) tablespace hist_19
, partition hist_311 values less than ( 1755001 ) tablespace hist_19
, partition hist_312 values less than ( 1760626 ) tablespace hist_19
, partition hist_313 values less than ( 1766251 ) tablespace hist_19
, partition hist_314 values less than ( 1771876 ) tablespace hist_19
, partition hist_315 values less than ( 1777501 ) tablespace hist_19
, partition hist_316 values less than ( 1783126 ) tablespace hist_19
, partition hist_317 values less than ( 1788751 ) tablespace hist_19
, partition hist_318 values less than ( 1794376 ) tablespace hist_19
, partition hist_319 values less than ( 1800001 ) tablespace hist_19
, partition hist_320 values less than ( 1805626 ) tablespace hist_20
, partition hist_321 values less than ( 1811251 ) tablespace hist_20
, partition hist_322 values less than ( 1816876 ) tablespace hist_20
, partition hist_323 values less than ( 1822501 ) tablespace hist_20
, partition hist_324 values less than ( 1828126 ) tablespace hist_20
, partition hist_325 values less than ( 1833751 ) tablespace hist_20
, partition hist_326 values less than ( 1839376 ) tablespace hist_20
, partition hist_327 values less than ( 1845001 ) tablespace hist_20
, partition hist_328 values less than ( 1850626 ) tablespace hist_20
, partition hist_329 values less than ( 1856251 ) tablespace hist_20
, partition hist_330 values less than ( 1861876 ) tablespace hist_20
, partition hist_331 values less than ( 1867501 ) tablespace hist_20
, partition hist_332 values less than ( 1873126 ) tablespace hist_20
, partition hist_333 values less than ( 1878751 ) tablespace hist_20
, partition hist_334 values less than ( 1884376 ) tablespace hist_20
, partition hist_335 values less than ( 1890001 ) tablespace hist_20
, partition hist_336 values less than ( 1895626 ) tablespace hist_21
, partition hist_337 values less than ( 1901251 ) tablespace hist_21
, partition hist_338 values less than ( 1906876 ) tablespace hist_21
, partition hist_339 values less than ( 1912501 ) tablespace hist_21
, partition hist_340 values less than ( 1918126 ) tablespace hist_21
, partition hist_341 values less than ( 1923751 ) tablespace hist_21
, partition hist_342 values less than ( 1929376 ) tablespace hist_21
, partition hist_343 values less than ( 1935001 ) tablespace hist_21
, partition hist_344 values less than ( 1940626 ) tablespace hist_21
, partition hist_345 values less than ( 1946251 ) tablespace hist_21
, partition hist_346 values less than ( 1951876 ) tablespace hist_21
, partition hist_347 values less than ( 1957501 ) tablespace hist_21
, partition hist_348 values less than ( 1963126 ) tablespace hist_21
, partition hist_349 values less than ( 1968751 ) tablespace hist_21
, partition hist_350 values less than ( 1974376 ) tablespace hist_21
, partition hist_351 values less than ( 1980001 ) tablespace hist_21
, partition hist_352 values less than ( 1985626 ) tablespace hist_22
, partition hist_353 values less than ( 1991251 ) tablespace hist_22
, partition hist_354 values less than ( 1996876 ) tablespace hist_22
, partition hist_355 values less than ( 2002501 ) tablespace hist_22
, partition hist_356 values less than ( 2008126 ) tablespace hist_22
, partition hist_357 values less than ( 2013751 ) tablespace hist_22
, partition hist_358 values less than ( 2019376 ) tablespace hist_22
, partition hist_359 values less than ( 2025001 ) tablespace hist_22
, partition hist_360 values less than ( 2030626 ) tablespace hist_22
, partition hist_361 values less than ( 2036251 ) tablespace hist_22
, partition hist_362 values less than ( 2041876 ) tablespace hist_22
, partition hist_363 values less than ( 2047501 ) tablespace hist_22
, partition hist_364 values less than ( 2053126 ) tablespace hist_22
, partition hist_365 values less than ( 2058751 ) tablespace hist_22
, partition hist_366 values less than ( 2064376 ) tablespace hist_22
, partition hist_367 values less than ( 2070001 ) tablespace hist_22
, partition hist_368 values less than ( 2075626 ) tablespace hist_23
, partition hist_369 values less than ( 2081251 ) tablespace hist_23
, partition hist_370 values less than ( 2086876 ) tablespace hist_23
, partition hist_371 values less than ( 2092501 ) tablespace hist_23
, partition hist_372 values less than ( 2098126 ) tablespace hist_23
, partition hist_373 values less than ( 2103751 ) tablespace hist_23
, partition hist_374 values less than ( 2109376 ) tablespace hist_23
, partition hist_375 values less than ( 2115001 ) tablespace hist_23
, partition hist_376 values less than ( 2120626 ) tablespace hist_23
, partition hist_377 values less than ( 2126251 ) tablespace hist_23
, partition hist_378 values less than ( 2131876 ) tablespace hist_23
, partition hist_379 values less than ( 2137501 ) tablespace hist_23
, partition hist_380 values less than ( 2143126 ) tablespace hist_23
, partition hist_381 values less than ( 2148751 ) tablespace hist_23
, partition hist_382 values less than ( 2154376 ) tablespace hist_23
, partition hist_383 values less than ( 2160001 ) tablespace hist_23
, partition hist_384 values less than ( 2165626 ) tablespace hist_24
, partition hist_385 values less than ( 2171251 ) tablespace hist_24
, partition hist_386 values less than ( 2176876 ) tablespace hist_24
, partition hist_387 values less than ( 2182501 ) tablespace hist_24
, partition hist_388 values less than ( 2188126 ) tablespace hist_24
, partition hist_389 values less than ( 2193751 ) tablespace hist_24
, partition hist_390 values less than ( 2199376 ) tablespace hist_24
, partition hist_391 values less than ( 2205001 ) tablespace hist_24
, partition hist_392 values less than ( 2210626 ) tablespace hist_24
, partition hist_393 values less than ( 2216251 ) tablespace hist_24
, partition hist_394 values less than ( 2221876 ) tablespace hist_24
, partition hist_395 values less than ( 2227501 ) tablespace hist_24
```

```
, partition hist_396 values less than ( 2233126 ) tablespace hist_24
, partition hist_397 values less than ( 2238751 ) tablespace hist_24
, partition hist_398 values less than ( 2244376 ) tablespace hist_24
, partition hist_399 values less than ( 2250001 ) tablespace hist_24
, partition hist_400 values less than ( 2255626 ) tablespace hist_25
, partition hist_401 values less than ( 2261251 ) tablespace hist_25
, partition hist_402 values less than ( 2266876 ) tablespace hist_25
, partition hist_403 values less than ( 2272501 ) tablespace hist_25
, partition hist_404 values less than ( 2278126 ) tablespace hist_25
, partition hist_405 values less than ( 2283751 ) tablespace hist_25
, partition hist_406 values less than ( 2289376 ) tablespace hist_25
, partition hist_407 values less than ( 2295001 ) tablespace hist_25
, partition hist_408 values less than ( 2300626 ) tablespace hist_25
, partition hist_409 values less than ( 2306251 ) tablespace hist_25
, partition hist_410 values less than ( 2311876 ) tablespace hist_25
, partition hist_411 values less than ( 2317501 ) tablespace hist_25
, partition hist_412 values less than ( 2323126 ) tablespace hist_25
, partition hist_413 values less than ( 2328751 ) tablespace hist_25
, partition hist_414 values less than ( 2334376 ) tablespace hist_25
, partition hist_415 values less than ( 2340001 ) tablespace hist_25
, partition hist_416 values less than ( 2345626 ) tablespace hist_26
, partition hist_417 values less than ( 2351251 ) tablespace hist_26
, partition hist_418 values less than ( 2356876 ) tablespace hist_26
, partition hist_419 values less than ( 2362501 ) tablespace hist_26
, partition hist_420 values less than ( 2368126 ) tablespace hist_26
, partition hist_421 values less than ( 2373751 ) tablespace hist_26
, partition hist_422 values less than ( 2379376 ) tablespace hist_26
, partition hist_423 values less than ( 2385001 ) tablespace hist_26
, partition hist_424 values less than ( 2390626 ) tablespace hist_26
, partition hist_425 values less than ( 2396251 ) tablespace hist_26
, partition hist_426 values less than ( 2401876 ) tablespace hist_26
, partition hist_427 values less than ( 2407501 ) tablespace hist_26
, partition hist_428 values less than ( 2413126 ) tablespace hist_26
, partition hist_429 values less than ( 2418751 ) tablespace hist_26
, partition hist_430 values less than ( 2424376 ) tablespace hist_26
, partition hist_431 values less than ( maxvalue ) tablespace hist_26
)
  pctfree 5  initrans 4
  storage ( buffer_pool recycle )

  ;
    set echo off
    spool off
    exit sql.sqlcode;
```

createtable_item.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatetable.sh Thu Aug 19 13:21:41 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createtable_item.log
    set echo on
      drop cluster itemcluster including tables ;

create cluster itemcluster (
  i_id number(6,0)
  )
  single table
  hashkeys 100000
  hash is ( (i_id - 1) )
  size 120
  pctfree 0  initrans 3
  storage ( buffer_pool keep )

  tablespace misc_0
  ;

create table item (
  i_id number(6,0)
, i_name varchar2(24)
, i_price number
, i_data varchar2(50)
, i_im_id number
)
cluster itemcluster (
  i_id
);
    set echo off
    spool off
    exit sql.sqlcode;
```

createtable_nord.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatetable.sh Thu Aug 19 13:21:51 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createtable_nord.log
    set echo on
        drop cluster nordcluster_queue including tables ;

  create cluster nordcluster_queue (
    no_w_id number
, no_d_id number
, no_o_id number SORT
    )

    hashkeys 56250
    hash is ( (no_w_id - 1) * 10 + no_d_id - 1 )
    size 390  parallel (degree 32)
    partition by range( no_w_id ) (
partition nord_0 values less than ( 5626 ) tablespace nord_0
, partition nord_1 values less than ( 11251 ) tablespace nord_0
, partition nord_2 values less than ( 16876 ) tablespace nord_0
, partition nord_3 values less than ( 22501 ) tablespace nord_0
, partition nord_4 values less than ( 28126 ) tablespace nord_0
, partition nord_5 values less than ( 33751 ) tablespace nord_0
, partition nord_6 values less than ( 39376 ) tablespace nord_0
, partition nord_7 values less than ( 45001 ) tablespace nord_0
, partition nord_8 values less than ( 50626 ) tablespace nord_0
, partition nord_9 values less than ( 56251 ) tablespace nord_0
, partition nord_10 values less than ( 61876 ) tablespace nord_0
, partition nord_11 values less than ( 67501 ) tablespace nord_0
, partition nord_12 values less than ( 73126 ) tablespace nord_0
, partition nord_13 values less than ( 78751 ) tablespace nord_0
, partition nord_14 values less than ( 84376 ) tablespace nord_0
, partition nord_15 values less than ( 90001 ) tablespace nord_0
, partition nord_16 values less than ( 95626 ) tablespace nord_1
, partition nord_17 values less than ( 101251 ) tablespace nord_1
, partition nord_18 values less than ( 106876 ) tablespace nord_1
, partition nord_19 values less than ( 112501 ) tablespace nord_1
, partition nord_20 values less than ( 118126 ) tablespace nord_1
, partition nord_21 values less than ( 123751 ) tablespace nord_1
, partition nord_22 values less than ( 129376 ) tablespace nord_1
, partition nord_23 values less than ( 135001 ) tablespace nord_1
, partition nord_24 values less than ( 140626 ) tablespace nord_1
, partition nord_25 values less than ( 146251 ) tablespace nord_1
, partition nord_26 values less than ( 151876 ) tablespace nord_1
, partition nord_27 values less than ( 157501 ) tablespace nord_1
, partition nord_28 values less than ( 163126 ) tablespace nord_1
, partition nord_29 values less than ( 168751 ) tablespace nord_1
, partition nord_30 values less than ( 174376 ) tablespace nord_1
, partition nord_31 values less than ( 180001 ) tablespace nord_1
, partition nord_32 values less than ( 185626 ) tablespace nord_2
, partition nord_33 values less than ( 191251 ) tablespace nord_2
, partition nord_34 values less than ( 196876 ) tablespace nord_2
, partition nord_35 values less than ( 202501 ) tablespace nord_2
, partition nord_36 values less than ( 208126 ) tablespace nord_2
, partition nord_37 values less than ( 213751 ) tablespace nord_2
, partition nord_38 values less than ( 219376 ) tablespace nord_2
, partition nord_39 values less than ( 225001 ) tablespace nord_2
, partition nord_40 values less than ( 230626 ) tablespace nord_2
, partition nord_41 values less than ( 236251 ) tablespace nord_2
, partition nord_42 values less than ( 241876 ) tablespace nord_2
, partition nord_43 values less than ( 247501 ) tablespace nord_2
, partition nord_44 values less than ( 253126 ) tablespace nord_2
, partition nord_45 values less than ( 258751 ) tablespace nord_2
, partition nord_46 values less than ( 264376 ) tablespace nord_2
, partition nord_47 values less than ( 270001 ) tablespace nord_2
, partition nord_48 values less than ( 275626 ) tablespace nord_3
, partition nord_49 values less than ( 281251 ) tablespace nord_3
, partition nord_50 values less than ( 286876 ) tablespace nord_3
, partition nord_51 values less than ( 292501 ) tablespace nord_3
, partition nord_52 values less than ( 298126 ) tablespace nord_3
, partition nord_53 values less than ( 303751 ) tablespace nord_3
, partition nord_54 values less than ( 309376 ) tablespace nord_3
, partition nord_55 values less than ( 315001 ) tablespace nord_3
, partition nord_56 values less than ( 320626 ) tablespace nord_3
, partition nord_57 values less than ( 326251 ) tablespace nord_3
, partition nord_58 values less than ( 331876 ) tablespace nord_3
, partition nord_59 values less than ( 337501 ) tablespace nord_3
, partition nord_60 values less than ( 343126 ) tablespace nord_3
, partition nord_61 values less than ( 348751 ) tablespace nord_3
, partition nord_62 values less than ( 354376 ) tablespace nord_3
, partition nord_63 values less than ( 360001 ) tablespace nord_3
, partition nord_64 values less than ( 365626 ) tablespace nord_4
, partition nord_65 values less than ( 371251 ) tablespace nord_4
, partition nord_66 values less than ( 376876 ) tablespace nord_4
, partition nord_67 values less than ( 382501 ) tablespace nord_4
, partition nord_68 values less than ( 388126 ) tablespace nord_4
, partition nord_69 values less than ( 393751 ) tablespace nord_4
, partition nord_70 values less than ( 399376 ) tablespace nord_4
, partition nord_71 values less than ( 405001 ) tablespace nord_4
```

```
, partition nord_72 values less than ( 410626 ) tablespace nord_4
, partition nord_73 values less than ( 416251 ) tablespace nord_4
, partition nord_74 values less than ( 421876 ) tablespace nord_4
, partition nord_75 values less than ( 427501 ) tablespace nord_4
, partition nord_76 values less than ( 433126 ) tablespace nord_4
, partition nord_77 values less than ( 438751 ) tablespace nord_4
, partition nord_78 values less than ( 444376 ) tablespace nord_4
, partition nord_79 values less than ( 450001 ) tablespace nord_4
, partition nord_80 values less than ( 455626 ) tablespace nord_5
, partition nord_81 values less than ( 461251 ) tablespace nord_5
, partition nord_82 values less than ( 466876 ) tablespace nord_5
, partition nord_83 values less than ( 472501 ) tablespace nord_5
, partition nord_84 values less than ( 478126 ) tablespace nord_5
, partition nord_85 values less than ( 483751 ) tablespace nord_5
, partition nord_86 values less than ( 489376 ) tablespace nord_5
, partition nord_87 values less than ( 495001 ) tablespace nord_5
, partition nord_88 values less than ( 500626 ) tablespace nord_5
, partition nord_89 values less than ( 506251 ) tablespace nord_5
, partition nord_90 values less than ( 511876 ) tablespace nord_5
, partition nord_91 values less than ( 517501 ) tablespace nord_5
, partition nord_92 values less than ( 523126 ) tablespace nord_5
, partition nord_93 values less than ( 528751 ) tablespace nord_5
, partition nord_94 values less than ( 534376 ) tablespace nord_5
, partition nord_95 values less than ( 540001 ) tablespace nord_5
, partition nord_96 values less than ( 545626 ) tablespace nord_6
, partition nord_97 values less than ( 551251 ) tablespace nord_6
, partition nord_98 values less than ( 556876 ) tablespace nord_6
, partition nord_99 values less than ( 562501 ) tablespace nord_6
, partition nord_100 values less than ( 568126 ) tablespace nord_6
, partition nord_101 values less than ( 573751 ) tablespace nord_6
, partition nord_102 values less than ( 579376 ) tablespace nord_6
, partition nord_103 values less than ( 585001 ) tablespace nord_6
, partition nord_104 values less than ( 590626 ) tablespace nord_6
, partition nord_105 values less than ( 596251 ) tablespace nord_6
, partition nord_106 values less than ( 601876 ) tablespace nord_6
, partition nord_107 values less than ( 607501 ) tablespace nord_6
, partition nord_108 values less than ( 613126 ) tablespace nord_6
, partition nord_109 values less than ( 618751 ) tablespace nord_6
, partition nord_110 values less than ( 624376 ) tablespace nord_6
, partition nord_111 values less than ( 630001 ) tablespace nord_6
, partition nord_112 values less than ( 635626 ) tablespace nord_7
, partition nord_113 values less than ( 641251 ) tablespace nord_7
, partition nord_114 values less than ( 646876 ) tablespace nord_7
, partition nord_115 values less than ( 652501 ) tablespace nord_7
, partition nord_116 values less than ( 658126 ) tablespace nord_7
, partition nord_117 values less than ( 663751 ) tablespace nord_7
, partition nord_118 values less than ( 669376 ) tablespace nord_7
, partition nord_119 values less than ( 675001 ) tablespace nord_7
, partition nord_120 values less than ( 680626 ) tablespace nord_7
, partition nord_121 values less than ( 686251 ) tablespace nord_7
, partition nord_122 values less than ( 691876 ) tablespace nord_7
, partition nord_123 values less than ( 697501 ) tablespace nord_7
, partition nord_124 values less than ( 703126 ) tablespace nord_7
, partition nord_125 values less than ( 708751 ) tablespace nord_7
, partition nord_126 values less than ( 714376 ) tablespace nord_7
, partition nord_127 values less than ( 720001 ) tablespace nord_7
, partition nord_128 values less than ( 725626 ) tablespace nord_8
, partition nord_129 values less than ( 731251 ) tablespace nord_8
, partition nord_130 values less than ( 736876 ) tablespace nord_8
, partition nord_131 values less than ( 742501 ) tablespace nord_8
, partition nord_132 values less than ( 748126 ) tablespace nord_8
, partition nord_133 values less than ( 753751 ) tablespace nord_8
, partition nord_134 values less than ( 759376 ) tablespace nord_8
, partition nord_135 values less than ( 765001 ) tablespace nord_8
, partition nord_136 values less than ( 770626 ) tablespace nord_8
, partition nord_137 values less than ( 776251 ) tablespace nord_8
, partition nord_138 values less than ( 781876 ) tablespace nord_8
, partition nord_139 values less than ( 787501 ) tablespace nord_8
, partition nord_140 values less than ( 793126 ) tablespace nord_8
, partition nord_141 values less than ( 798751 ) tablespace nord_8
, partition nord_142 values less than ( 804376 ) tablespace nord_8
, partition nord_143 values less than ( 810001 ) tablespace nord_8
, partition nord_144 values less than ( 815626 ) tablespace nord_9
, partition nord_145 values less than ( 821251 ) tablespace nord_9
, partition nord_146 values less than ( 826876 ) tablespace nord_9
, partition nord_147 values less than ( 832501 ) tablespace nord_9
, partition nord_148 values less than ( 838126 ) tablespace nord_9
, partition nord_149 values less than ( 843751 ) tablespace nord_9
, partition nord_150 values less than ( 849376 ) tablespace nord_9
, partition nord_151 values less than ( 855001 ) tablespace nord_9
, partition nord_152 values less than ( 860626 ) tablespace nord_9
, partition nord_153 values less than ( 866251 ) tablespace nord_9
, partition nord_154 values less than ( 871876 ) tablespace nord_9
, partition nord_155 values less than ( 877501 ) tablespace nord_9
, partition nord_156 values less than ( 883126 ) tablespace nord_9
, partition nord_157 values less than ( 888751 ) tablespace nord_9
, partition nord_158 values less than ( 894376 ) tablespace nord_9
, partition nord_159 values less than ( 900001 ) tablespace nord_9
, partition nord_160 values less than ( 905626 ) tablespace nord_10
, partition nord_161 values less than ( 911251 ) tablespace nord_10
, partition nord_162 values less than ( 916876 ) tablespace nord_10
, partition nord_163 values less than ( 922501 ) tablespace nord_10
, partition nord_164 values less than ( 928126 ) tablespace nord_10
, partition nord_165 values less than ( 933751 ) tablespace nord_10
, partition nord_166 values less than ( 939376 ) tablespace nord_10
, partition nord_167 values less than ( 945001 ) tablespace nord_10
, partition nord_168 values less than ( 950626 ) tablespace nord_10
, partition nord_169 values less than ( 956251 ) tablespace nord_10
, partition nord_170 values less than ( 961876 ) tablespace nord_10
, partition nord_171 values less than ( 967501 ) tablespace nord_10
, partition nord_172 values less than ( 973126 ) tablespace nord_10
, partition nord_173 values less than ( 978751 ) tablespace nord_10
, partition nord_174 values less than ( 984376 ) tablespace nord_10
, partition nord_175 values less than ( 990001 ) tablespace nord_10
, partition nord_176 values less than ( 995626 ) tablespace nord_11
, partition nord_177 values less than ( 1001251 ) tablespace nord_11
, partition nord_178 values less than ( 1006876 ) tablespace nord_11
, partition nord_179 values less than ( 1012501 ) tablespace nord_11
, partition nord_180 values less than ( 1018126 ) tablespace nord_11
, partition nord_181 values less than ( 1023751 ) tablespace nord_11
, partition nord_182 values less than ( 1029376 ) tablespace nord_11
, partition nord_183 values less than ( 1035001 ) tablespace nord_11
, partition nord_184 values less than ( 1040626 ) tablespace nord_11
, partition nord_185 values less than ( 1046251 ) tablespace nord_11
, partition nord_186 values less than ( 1051876 ) tablespace nord_11
, partition nord_187 values less than ( 1057501 ) tablespace nord_11
, partition nord_188 values less than ( 1063126 ) tablespace nord_11
, partition nord_189 values less than ( 1068751 ) tablespace nord_11
, partition nord_190 values less than ( 1074376 ) tablespace nord_11
, partition nord_191 values less than ( 1080001 ) tablespace nord_11
, partition nord_192 values less than ( 1085626 ) tablespace nord_12
, partition nord_193 values less than ( 1091251 ) tablespace nord_12
, partition nord_194 values less than ( 1096876 ) tablespace nord_12
, partition nord_195 values less than ( 1102501 ) tablespace nord_12
, partition nord_196 values less than ( 1108126 ) tablespace nord_12
, partition nord_197 values less than ( 1113751 ) tablespace nord_12
, partition nord_198 values less than ( 1119376 ) tablespace nord_12
, partition nord_199 values less than ( 1125001 ) tablespace nord_12
, partition nord_200 values less than ( 1130626 ) tablespace nord_12
, partition nord_201 values less than ( 1136251 ) tablespace nord_12
, partition nord_202 values less than ( 1141876 ) tablespace nord_12
, partition nord_203 values less than ( 1147501 ) tablespace nord_12
, partition nord_204 values less than ( 1153126 ) tablespace nord_12
, partition nord_205 values less than ( 1158751 ) tablespace nord_12
, partition nord_206 values less than ( 1164376 ) tablespace nord_12
, partition nord_207 values less than ( 1170001 ) tablespace nord_12
, partition nord_208 values less than ( 1175626 ) tablespace nord_13
, partition nord_209 values less than ( 1181251 ) tablespace nord_13
, partition nord_210 values less than ( 1186876 ) tablespace nord_13
, partition nord_211 values less than ( 1192501 ) tablespace nord_13
, partition nord_212 values less than ( 1198126 ) tablespace nord_13
, partition nord_213 values less than ( 1203751 ) tablespace nord_13
, partition nord_214 values less than ( 1209376 ) tablespace nord_13
, partition nord_215 values less than ( 1215001 ) tablespace nord_13
, partition nord_216 values less than ( 1220626 ) tablespace nord_13
, partition nord_217 values less than ( 1226251 ) tablespace nord_13
, partition nord_218 values less than ( 1231876 ) tablespace nord_13
, partition nord_219 values less than ( 1237501 ) tablespace nord_13
, partition nord_220 values less than ( 1243126 ) tablespace nord_13
, partition nord_221 values less than ( 1248751 ) tablespace nord_13
, partition nord_222 values less than ( 1254376 ) tablespace nord_13
, partition nord_223 values less than ( 1260001 ) tablespace nord_13
, partition nord_224 values less than ( 1265626 ) tablespace nord_14
, partition nord_225 values less than ( 1271251 ) tablespace nord_14
, partition nord_226 values less than ( 1276876 ) tablespace nord_14
, partition nord_227 values less than ( 1282501 ) tablespace nord_14
, partition nord_228 values less than ( 1288126 ) tablespace nord_14
, partition nord_229 values less than ( 1293751 ) tablespace nord_14
, partition nord_230 values less than ( 1299376 ) tablespace nord_14
, partition nord_231 values less than ( 1305001 ) tablespace nord_14
, partition nord_232 values less than ( 1310626 ) tablespace nord_14
, partition nord_233 values less than ( 1316251 ) tablespace nord_14
, partition nord_234 values less than ( 1321876 ) tablespace nord_14
, partition nord_235 values less than ( 1327501 ) tablespace nord_14
, partition nord_236 values less than ( 1333126 ) tablespace nord_14
, partition nord_237 values less than ( 1338751 ) tablespace nord_14
, partition nord_238 values less than ( 1344376 ) tablespace nord_14
, partition nord_239 values less than ( 1350001 ) tablespace nord_14
, partition nord_240 values less than ( 1355626 ) tablespace nord_15
, partition nord_241 values less than ( 1361251 ) tablespace nord_15
, partition nord_242 values less than ( 1366876 ) tablespace nord_15
, partition nord_243 values less than ( 1372501 ) tablespace nord_15
, partition nord_244 values less than ( 1378126 ) tablespace nord_15
, partition nord_245 values less than ( 1383751 ) tablespace nord_15
```

```
, partition nord_246 values less than ( 1389376 ) tablespace nord_15
, partition nord_247 values less than ( 1395001 ) tablespace nord_15
, partition nord_248 values less than ( 1400626 ) tablespace nord_15
, partition nord_249 values less than ( 1406251 ) tablespace nord_15
, partition nord_250 values less than ( 1411876 ) tablespace nord_15
, partition nord_251 values less than ( 1417501 ) tablespace nord_15
, partition nord_252 values less than ( 1423126 ) tablespace nord_15
, partition nord_253 values less than ( 1428751 ) tablespace nord_15
, partition nord_254 values less than ( 1434376 ) tablespace nord_15
, partition nord_255 values less than ( 1440001 ) tablespace nord_15
, partition nord_256 values less than ( 1445626 ) tablespace nord_16
, partition nord_257 values less than ( 1451251 ) tablespace nord_16
, partition nord_258 values less than ( 1456876 ) tablespace nord_16
, partition nord_259 values less than ( 1462501 ) tablespace nord_16
, partition nord_260 values less than ( 1468126 ) tablespace nord_16
, partition nord_261 values less than ( 1473751 ) tablespace nord_16
, partition nord_262 values less than ( 1479376 ) tablespace nord_16
, partition nord_263 values less than ( 1485001 ) tablespace nord_16
, partition nord_264 values less than ( 1490626 ) tablespace nord_16
, partition nord_265 values less than ( 1496251 ) tablespace nord_16
, partition nord_266 values less than ( 1501876 ) tablespace nord_16
, partition nord_267 values less than ( 1507501 ) tablespace nord_16
, partition nord_268 values less than ( 1513126 ) tablespace nord_16
, partition nord_269 values less than ( 1518751 ) tablespace nord_16
, partition nord_270 values less than ( 1524376 ) tablespace nord_16
, partition nord_271 values less than ( 1530001 ) tablespace nord_16
, partition nord_272 values less than ( 1535626 ) tablespace nord_17
, partition nord_273 values less than ( 1541251 ) tablespace nord_17
, partition nord_274 values less than ( 1546876 ) tablespace nord_17
, partition nord_275 values less than ( 1552501 ) tablespace nord_17
, partition nord_276 values less than ( 1558126 ) tablespace nord_17
, partition nord_277 values less than ( 1563751 ) tablespace nord_17
, partition nord_278 values less than ( 1569376 ) tablespace nord_17
, partition nord_279 values less than ( 1575001 ) tablespace nord_17
, partition nord_280 values less than ( 1580626 ) tablespace nord_17
, partition nord_281 values less than ( 1586251 ) tablespace nord_17
, partition nord_282 values less than ( 1591876 ) tablespace nord_17
, partition nord_283 values less than ( 1597501 ) tablespace nord_17
, partition nord_284 values less than ( 1603126 ) tablespace nord_17
, partition nord_285 values less than ( 1608751 ) tablespace nord_17
, partition nord_286 values less than ( 1614376 ) tablespace nord_17
, partition nord_287 values less than ( 1620001 ) tablespace nord_17
, partition nord_288 values less than ( 1625626 ) tablespace nord_18
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, partition nord_290 values less than ( 1636876 ) tablespace nord_18
, partition nord_291 values less than ( 1642501 ) tablespace nord_18
, partition nord_292 values less than ( 1648126 ) tablespace nord_18
, partition nord_293 values less than ( 1653751 ) tablespace nord_18
, partition nord_294 values less than ( 1659376 ) tablespace nord_18
, partition nord_295 values less than ( 1665001 ) tablespace nord_18
, partition nord_296 values less than ( 1670626 ) tablespace nord_18
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, partition nord_298 values less than ( 1681876 ) tablespace nord_18
, partition nord_299 values less than ( 1687501 ) tablespace nord_18
, partition nord_300 values less than ( 1693126 ) tablespace nord_18
, partition nord_301 values less than ( 1698751 ) tablespace nord_18
, partition nord_302 values less than ( 1704376 ) tablespace nord_18
, partition nord_303 values less than ( 1710001 ) tablespace nord_18
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, partition nord_315 values less than ( 1777501 ) tablespace nord_19
, partition nord_316 values less than ( 1783126 ) tablespace nord_19
, partition nord_317 values less than ( 1788751 ) tablespace nord_19
, partition nord_318 values less than ( 1794376 ) tablespace nord_19
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, partition nord_325 values less than ( 1833751 ) tablespace nord_20
, partition nord_326 values less than ( 1839376 ) tablespace nord_20
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, partition nord_328 values less than ( 1850626 ) tablespace nord_20
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, partition nord_372 values less than ( 2098126 ) tablespace nord_23
, partition nord_373 values less than ( 2103751 ) tablespace nord_23
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, partition nord_375 values less than ( 2115001 ) tablespace nord_23
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, partition nord_377 values less than ( 2126251 ) tablespace nord_23
, partition nord_378 values less than ( 2131876 ) tablespace nord_23
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, partition nord_384 values less than ( 2165626 ) tablespace nord_24
, partition nord_385 values less than ( 2171251 ) tablespace nord_24
, partition nord_386 values less than ( 2176876 ) tablespace nord_24
, partition nord_387 values less than ( 2182501 ) tablespace nord_24
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, partition nord_389 values less than ( 2193751 ) tablespace nord_24
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, partition nord_400 values less than ( 2255626 ) tablespace nord_25
, partition nord_401 values less than ( 2261251 ) tablespace nord_25
, partition nord_402 values less than ( 2266876 ) tablespace nord_25
, partition nord_403 values less than ( 2272501 ) tablespace nord_25
, partition nord_404 values less than ( 2278126 ) tablespace nord_25
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, partition nord_411 values less than ( 2317501 ) tablespace nord_25
, partition nord_412 values less than ( 2323126 ) tablespace nord_25
, partition nord_413 values less than ( 2328751 ) tablespace nord_25
, partition nord_414 values less than ( 2334376 ) tablespace nord_25
, partition nord_415 values less than ( 2340001 ) tablespace nord_25
, partition nord_416 values less than ( 2345626 ) tablespace nord_26
, partition nord_417 values less than ( 2351251 ) tablespace nord_26
, partition nord_418 values less than ( 2356876 ) tablespace nord_26
, partition nord_419 values less than ( 2362501 ) tablespace nord_26
```

```
, partition nord_420 values less than ( 2368126 ) tablespace nord_26
, partition nord_421 values less than ( 2373751 ) tablespace nord_26
, partition nord_422 values less than ( 2379376 ) tablespace nord_26
, partition nord_423 values less than ( 2385001 ) tablespace nord_26
, partition nord_424 values less than ( 2390626 ) tablespace nord_26
, partition nord_425 values less than ( 2396251 ) tablespace nord_26
, partition nord_426 values less than ( 2401876 ) tablespace nord_26
, partition nord_427 values less than ( 2407501 ) tablespace nord_26
, partition nord_428 values less than ( 2413126 ) tablespace nord_26
, partition nord_429 values less than ( 2418751 ) tablespace nord_26
, partition nord_430 values less than ( 2424376 ) tablespace nord_26
, partition nord_431 values less than ( maxvalue ) tablespace nord_26
)
    ;

  create table nord (
    no_w_id number
, no_d_id number
, no_o_id number sort
    , constraint nord_uk primary key ( no_w_id
, no_d_id
, no_o_id )
  )
  cluster nordcluster_queue (
    no_w_id
, no_d_id
, no_o_id
  );
    set echo off
    spool off
    exit sql.sqlcode;
```

createtable_ordl.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatetable.sh Thu Aug 19
13:21:50 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createtable_ordl.log
    set echo on
        create table ordl (
    ol_w_id number
, ol_d_id number
, ol_o_id number sort
, ol_number number sort
, ol_i_id number
, ol_delivery_d date
, ol_amount number
, ol_supply_w_id number
, ol_quantity number
, ol_dist_info char(24)
   , constraint ordl_uk primary key (ol_w_id, ol_d_id, ol_o_id, ol_number  ))
CLUSTER ordrcluster_queue(ol_w_id, ol_d_id, ol_o_id, ol_number) ;
    set echo off
    spool off
    exit sql.sqlcode;
```

createtable_ordr.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatetable.sh Thu Aug 19
13:21:43 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createtable_ordr.log
    set echo on
        drop cluster ordrcluster_queue including tables ;

  create cluster ordrcluster_queue (
    o_w_id number
, o_d_id number
, o_id number SORT
, o_number number SORT
    )

    hashkeys 56250
    hash is ( (o_w_id - 1) * 10 + o_d_id - 1 )
    size 1490 parallel (degree 64)
    partition by range( o_w_id ) (

partition ordr_0 values less than ( 5626 ) tablespace ordr_0
, partition ordr_1 values less than ( 11251 ) tablespace ordr_0
, partition ordr_2 values less than ( 16876 ) tablespace ordr_0
, partition ordr_3 values less than ( 22501 ) tablespace ordr_0
, partition ordr_4 values less than ( 28126 ) tablespace ordr_0
, partition ordr_5 values less than ( 33751 ) tablespace ordr_0
, partition ordr_6 values less than ( 39376 ) tablespace ordr_0
, partition ordr_7 values less than ( 45001 ) tablespace ordr_0
, partition ordr_8 values less than ( 50626 ) tablespace ordr_0
, partition ordr_9 values less than ( 56251 ) tablespace ordr_0
, partition ordr_10 values less than ( 61876 ) tablespace ordr_0
, partition ordr_11 values less than ( 67501 ) tablespace ordr_0
, partition ordr_12 values less than ( 73126 ) tablespace ordr_0
, partition ordr_13 values less than ( 78751 ) tablespace ordr_0
, partition ordr_14 values less than ( 84376 ) tablespace ordr_0
, partition ordr_15 values less than ( 90001 ) tablespace ordr_0
, partition ordr_16 values less than ( 95626 ) tablespace ordr_1
, partition ordr_17 values less than ( 101251 ) tablespace ordr_1
, partition ordr_18 values less than ( 106876 ) tablespace ordr_1
, partition ordr_19 values less than ( 112501 ) tablespace ordr_1
, partition ordr_20 values less than ( 118126 ) tablespace ordr_1
, partition ordr_21 values less than ( 123751 ) tablespace ordr_1
, partition ordr_22 values less than ( 129376 ) tablespace ordr_1
, partition ordr_23 values less than ( 135001 ) tablespace ordr_1
, partition ordr_24 values less than ( 140626 ) tablespace ordr_1
, partition ordr_25 values less than ( 146251 ) tablespace ordr_1
, partition ordr_26 values less than ( 151876 ) tablespace ordr_1
, partition ordr_27 values less than ( 157501 ) tablespace ordr_1
, partition ordr_28 values less than ( 163126 ) tablespace ordr_1
, partition ordr_29 values less than ( 168751 ) tablespace ordr_1
, partition ordr_30 values less than ( 174376 ) tablespace ordr_1
, partition ordr_31 values less than ( 180001 ) tablespace ordr_1
, partition ordr_32 values less than ( 185626 ) tablespace ordr_2
, partition ordr_33 values less than ( 191251 ) tablespace ordr_2
, partition ordr_34 values less than ( 196876 ) tablespace ordr_2
, partition ordr_35 values less than ( 202501 ) tablespace ordr_2
, partition ordr_36 values less than ( 208126 ) tablespace ordr_2
, partition ordr_37 values less than ( 213751 ) tablespace ordr_2
, partition ordr_38 values less than ( 219376 ) tablespace ordr_2
, partition ordr_39 values less than ( 225001 ) tablespace ordr_2
, partition ordr_40 values less than ( 230626 ) tablespace ordr_2
, partition ordr_41 values less than ( 236251 ) tablespace ordr_2
, partition ordr_42 values less than ( 241876 ) tablespace ordr_2
, partition ordr_43 values less than ( 247501 ) tablespace ordr_2
, partition ordr_44 values less than ( 253126 ) tablespace ordr_2
, partition ordr_45 values less than ( 258751 ) tablespace ordr_2
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, partition ordr_47 values less than ( 270001 ) tablespace ordr_2
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, partition ordr_62 values less than ( 354376 ) tablespace ordr_3
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, partition ordr_64 values less than ( 365626 ) tablespace ordr_4
, partition ordr_65 values less than ( 371251 ) tablespace ordr_4
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, partition ordr_93 values less than ( 528751 ) tablespace ordr_5
, partition ordr_94 values less than ( 534376 ) tablespace ordr_5
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, partition ordr_190 values less than ( 1074376 ) tablespace ordr_11
, partition ordr_191 values less than ( 1080001 ) tablespace ordr_12
, partition ordr_192 values less than ( 1085626 ) tablespace ordr_12
, partition ordr_193 values less than ( 1091251 ) tablespace ordr_12
, partition ordr_194 values less than ( 1096876 ) tablespace ordr_12
, partition ordr_195 values less than ( 1102501 ) tablespace ordr_12
, partition ordr_196 values less than ( 1108126 ) tablespace ordr_12
, partition ordr_197 values less than ( 1113751 ) tablespace ordr_12
, partition ordr_198 values less than ( 1119376 ) tablespace ordr_12
, partition ordr_199 values less than ( 1125001 ) tablespace ordr_12
, partition ordr_200 values less than ( 1130626 ) tablespace ordr_12
, partition ordr_201 values less than ( 1136251 ) tablespace ordr_12
, partition ordr_202 values less than ( 1141876 ) tablespace ordr_12
, partition ordr_203 values less than ( 1147501 ) tablespace ordr_12
, partition ordr_204 values less than ( 1153126 ) tablespace ordr_12
, partition ordr_205 values less than ( 1158751 ) tablespace ordr_12
, partition ordr_206 values less than ( 1164376 ) tablespace ordr_12
, partition ordr_207 values less than ( 1170001 ) tablespace ordr_13
, partition ordr_208 values less than ( 1175626 ) tablespace ordr_13
, partition ordr_209 values less than ( 1181251 ) tablespace ordr_13
, partition ordr_210 values less than ( 1186876 ) tablespace ordr_13
, partition ordr_211 values less than ( 1192501 ) tablespace ordr_13
, partition ordr_212 values less than ( 1198126 ) tablespace ordr_13
, partition ordr_213 values less than ( 1203751 ) tablespace ordr_13
, partition ordr_214 values less than ( 1209376 ) tablespace ordr_13
, partition ordr_215 values less than ( 1215001 ) tablespace ordr_13
, partition ordr_216 values less than ( 1220626 ) tablespace ordr_13
, partition ordr_217 values less than ( 1226251 ) tablespace ordr_13
, partition ordr_218 values less than ( 1231876 ) tablespace ordr_13
, partition ordr_219 values less than ( 1237501 ) tablespace ordr_13
, partition ordr_220 values less than ( 1243126 ) tablespace ordr_13
, partition ordr_221 values less than ( 1248751 ) tablespace ordr_13
, partition ordr_222 values less than ( 1254376 ) tablespace ordr_13
, partition ordr_223 values less than ( 1260001 ) tablespace ordr_13
, partition ordr_224 values less than ( 1265626 ) tablespace ordr_14
, partition ordr_225 values less than ( 1271251 ) tablespace ordr_14
, partition ordr_226 values less than ( 1276876 ) tablespace ordr_14
, partition ordr_227 values less than ( 1282501 ) tablespace ordr_14
, partition ordr_228 values less than ( 1288126 ) tablespace ordr_14
, partition ordr_229 values less than ( 1293751 ) tablespace ordr_14
, partition ordr_230 values less than ( 1299376 ) tablespace ordr_14
, partition ordr_231 values less than ( 1305001 ) tablespace ordr_14
, partition ordr_232 values less than ( 1310626 ) tablespace ordr_14
, partition ordr_233 values less than ( 1316251 ) tablespace ordr_14
, partition ordr_234 values less than ( 1321876 ) tablespace ordr_14
, partition ordr_235 values less than ( 1327501 ) tablespace ordr_14
, partition ordr_236 values less than ( 1333126 ) tablespace ordr_14
, partition ordr_237 values less than ( 1338751 ) tablespace ordr_14
, partition ordr_238 values less than ( 1344376 ) tablespace ordr_14
, partition ordr_239 values less than ( 1350001 ) tablespace ordr_14
, partition ordr_240 values less than ( 1355626 ) tablespace ordr_15
, partition ordr_241 values less than ( 1361251 ) tablespace ordr_15
, partition ordr_242 values less than ( 1366876 ) tablespace ordr_15
, partition ordr_243 values less than ( 1372501 ) tablespace ordr_15
, partition ordr_244 values less than ( 1378126 ) tablespace ordr_15
, partition ordr_245 values less than ( 1383751 ) tablespace ordr_15
, partition ordr_246 values less than ( 1389376 ) tablespace ordr_15
, partition ordr_247 values less than ( 1395001 ) tablespace ordr_15
, partition ordr_248 values less than ( 1400626 ) tablespace ordr_15
, partition ordr_249 values less than ( 1406251 ) tablespace ordr_15
, partition ordr_250 values less than ( 1411876 ) tablespace ordr_15
, partition ordr_251 values less than ( 1417501 ) tablespace ordr_15
, partition ordr_252 values less than ( 1423126 ) tablespace ordr_15
, partition ordr_253 values less than ( 1428751 ) tablespace ordr_15
, partition ordr_254 values less than ( 1434376 ) tablespace ordr_15
, partition ordr_255 values less than ( 1440001 ) tablespace ordr_15
, partition ordr_256 values less than ( 1445626 ) tablespace ordr_16
, partition ordr_257 values less than ( 1451251 ) tablespace ordr_16
, partition ordr_258 values less than ( 1456876 ) tablespace ordr_16
, partition ordr_259 values less than ( 1462501 ) tablespace ordr_16
, partition ordr_260 values less than ( 1468126 ) tablespace ordr_16
, partition ordr_261 values less than ( 1473751 ) tablespace ordr_16
, partition ordr_262 values less than ( 1479376 ) tablespace ordr_16
, partition ordr_263 values less than ( 1485001 ) tablespace ordr_16
, partition ordr_264 values less than ( 1490626 ) tablespace ordr_16
, partition ordr_265 values less than ( 1496251 ) tablespace ordr_16
, partition ordr_266 values less than ( 1501876 ) tablespace ordr_16
, partition ordr_267 values less than ( 1507501 ) tablespace ordr_16
, partition ordr_268 values less than ( 1513126 ) tablespace ordr_16
```

```
, partition ordr_269 values less than ( 1518751 ) tablespace ordr_16
, partition ordr_270 values less than ( 1524376 ) tablespace ordr_16
, partition ordr_271 values less than ( 1530001 ) tablespace ordr_16
, partition ordr_272 values less than ( 1535626 ) tablespace ordr_17
, partition ordr_273 values less than ( 1541251 ) tablespace ordr_17
, partition ordr_274 values less than ( 1546876 ) tablespace ordr_17
, partition ordr_275 values less than ( 1552501 ) tablespace ordr_17
, partition ordr_276 values less than ( 1558126 ) tablespace ordr_17
, partition ordr_277 values less than ( 1563751 ) tablespace ordr_17
, partition ordr_278 values less than ( 1569376 ) tablespace ordr_17
, partition ordr_279 values less than ( 1575001 ) tablespace ordr_17
, partition ordr_280 values less than ( 1580626 ) tablespace ordr_17
, partition ordr_281 values less than ( 1586251 ) tablespace ordr_17
, partition ordr_282 values less than ( 1591876 ) tablespace ordr_17
, partition ordr_283 values less than ( 1597501 ) tablespace ordr_17
, partition ordr_284 values less than ( 1603126 ) tablespace ordr_17
, partition ordr_285 values less than ( 1608751 ) tablespace ordr_17
, partition ordr_286 values less than ( 1614376 ) tablespace ordr_17
, partition ordr_287 values less than ( 1620001 ) tablespace ordr_17
, partition ordr_288 values less than ( 1625626 ) tablespace ordr_18
, partition ordr_289 values less than ( 1631251 ) tablespace ordr_18
, partition ordr_290 values less than ( 1636876 ) tablespace ordr_18
, partition ordr_291 values less than ( 1642501 ) tablespace ordr_18
, partition ordr_292 values less than ( 1648126 ) tablespace ordr_18
, partition ordr_293 values less than ( 1653751 ) tablespace ordr_18
, partition ordr_294 values less than ( 1659376 ) tablespace ordr_18
, partition ordr_295 values less than ( 1665001 ) tablespace ordr_18
, partition ordr_296 values less than ( 1670626 ) tablespace ordr_18
, partition ordr_297 values less than ( 1676251 ) tablespace ordr_18
, partition ordr_298 values less than ( 1681876 ) tablespace ordr_18
, partition ordr_299 values less than ( 1687501 ) tablespace ordr_18
, partition ordr_300 values less than ( 1693126 ) tablespace ordr_18
, partition ordr_301 values less than ( 1698751 ) tablespace ordr_18
, partition ordr_302 values less than ( 1704376 ) tablespace ordr_18
, partition ordr_303 values less than ( 1710001 ) tablespace ordr_18
, partition ordr_304 values less than ( 1715626 ) tablespace ordr_19
, partition ordr_305 values less than ( 1721251 ) tablespace ordr_19
, partition ordr_306 values less than ( 1726876 ) tablespace ordr_19
, partition ordr_307 values less than ( 1732501 ) tablespace ordr_19
, partition ordr_308 values less than ( 1738126 ) tablespace ordr_19
, partition ordr_309 values less than ( 1743751 ) tablespace ordr_19
, partition ordr_310 values less than ( 1749376 ) tablespace ordr_19
, partition ordr_311 values less than ( 1755001 ) tablespace ordr_19
, partition ordr_312 values less than ( 1760626 ) tablespace ordr_19
, partition ordr_313 values less than ( 1766251 ) tablespace ordr_19
, partition ordr_314 values less than ( 1771876 ) tablespace ordr_19
, partition ordr_315 values less than ( 1777501 ) tablespace ordr_19
, partition ordr_316 values less than ( 1783126 ) tablespace ordr_19
, partition ordr_317 values less than ( 1788751 ) tablespace ordr_19
, partition ordr_318 values less than ( 1794376 ) tablespace ordr_19
, partition ordr_319 values less than ( 1800001 ) tablespace ordr_19
, partition ordr_320 values less than ( 1805626 ) tablespace ordr_20
, partition ordr_321 values less than ( 1811251 ) tablespace ordr_20
, partition ordr_322 values less than ( 1816876 ) tablespace ordr_20
, partition ordr_323 values less than ( 1822501 ) tablespace ordr_20
, partition ordr_324 values less than ( 1828126 ) tablespace ordr_20
, partition ordr_325 values less than ( 1833751 ) tablespace ordr_20
, partition ordr_326 values less than ( 1839376 ) tablespace ordr_20
, partition ordr_327 values less than ( 1845001 ) tablespace ordr_20
, partition ordr_328 values less than ( 1850626 ) tablespace ordr_20
, partition ordr_329 values less than ( 1856251 ) tablespace ordr_20
, partition ordr_330 values less than ( 1861876 ) tablespace ordr_20
, partition ordr_331 values less than ( 1867501 ) tablespace ordr_20
, partition ordr_332 values less than ( 1873126 ) tablespace ordr_20
, partition ordr_333 values less than ( 1878751 ) tablespace ordr_20
, partition ordr_334 values less than ( 1884376 ) tablespace ordr_20
, partition ordr_335 values less than ( 1890001 ) tablespace ordr_20
, partition ordr_336 values less than ( 1895626 ) tablespace ordr_21
, partition ordr_337 values less than ( 1901251 ) tablespace ordr_21
, partition ordr_338 values less than ( 1906876 ) tablespace ordr_21
, partition ordr_339 values less than ( 1912501 ) tablespace ordr_21
, partition ordr_340 values less than ( 1918126 ) tablespace ordr_21
, partition ordr_341 values less than ( 1923751 ) tablespace ordr_21
, partition ordr_342 values less than ( 1929376 ) tablespace ordr_21
, partition ordr_343 values less than ( 1935001 ) tablespace ordr_21
, partition ordr_344 values less than ( 1940626 ) tablespace ordr_21
, partition ordr_345 values less than ( 1946251 ) tablespace ordr_21
, partition ordr_346 values less than ( 1951876 ) tablespace ordr_21
, partition ordr_347 values less than ( 1957501 ) tablespace ordr_21
, partition ordr_348 values less than ( 1963126 ) tablespace ordr_21
, partition ordr_349 values less than ( 1968751 ) tablespace ordr_21
, partition ordr_350 values less than ( 1974376 ) tablespace ordr_21
, partition ordr_351 values less than ( 1980001 ) tablespace ordr_21
, partition ordr_352 values less than ( 1985626 ) tablespace ordr_22
, partition ordr_353 values less than ( 1991251 ) tablespace ordr_22
, partition ordr_354 values less than ( 1996876 ) tablespace ordr_22
, partition ordr_355 values less than ( 2002501 ) tablespace ordr_22
, partition ordr_356 values less than ( 2008126 ) tablespace ordr_22
, partition ordr_357 values less than ( 2013751 ) tablespace ordr_22
, partition ordr_358 values less than ( 2019376 ) tablespace ordr_22
, partition ordr_359 values less than ( 2025001 ) tablespace ordr_22
, partition ordr_360 values less than ( 2030626 ) tablespace ordr_22
, partition ordr_361 values less than ( 2036251 ) tablespace ordr_22
, partition ordr_362 values less than ( 2041876 ) tablespace ordr_22
, partition ordr_363 values less than ( 2047501 ) tablespace ordr_22
, partition ordr_364 values less than ( 2053126 ) tablespace ordr_22
, partition ordr_365 values less than ( 2058751 ) tablespace ordr_22
, partition ordr_366 values less than ( 2064376 ) tablespace ordr_22
, partition ordr_367 values less than ( 2070001 ) tablespace ordr_22
, partition ordr_368 values less than ( 2075626 ) tablespace ordr_23
, partition ordr_369 values less than ( 2081251 ) tablespace ordr_23
, partition ordr_370 values less than ( 2086876 ) tablespace ordr_23
, partition ordr_371 values less than ( 2092501 ) tablespace ordr_23
, partition ordr_372 values less than ( 2098126 ) tablespace ordr_23
, partition ordr_373 values less than ( 2103751 ) tablespace ordr_23
, partition ordr_374 values less than ( 2109376 ) tablespace ordr_23
, partition ordr_375 values less than ( 2115001 ) tablespace ordr_23
, partition ordr_376 values less than ( 2120626 ) tablespace ordr_23
, partition ordr_377 values less than ( 2126251 ) tablespace ordr_23
, partition ordr_378 values less than ( 2131876 ) tablespace ordr_23
, partition ordr_379 values less than ( 2137501 ) tablespace ordr_23
, partition ordr_380 values less than ( 2143126 ) tablespace ordr_23
, partition ordr_381 values less than ( 2148751 ) tablespace ordr_23
, partition ordr_382 values less than ( 2154376 ) tablespace ordr_23
, partition ordr_383 values less than ( 2160001 ) tablespace ordr_23
, partition ordr_384 values less than ( 2165626 ) tablespace ordr_24
, partition ordr_385 values less than ( 2171251 ) tablespace ordr_24
, partition ordr_386 values less than ( 2176876 ) tablespace ordr_24
, partition ordr_387 values less than ( 2182501 ) tablespace ordr_24
, partition ordr_388 values less than ( 2188126 ) tablespace ordr_24
, partition ordr_389 values less than ( 2193751 ) tablespace ordr_24
, partition ordr_390 values less than ( 2199376 ) tablespace ordr_24
, partition ordr_391 values less than ( 2205001 ) tablespace ordr_24
, partition ordr_392 values less than ( 2210626 ) tablespace ordr_24
, partition ordr_393 values less than ( 2216251 ) tablespace ordr_24
, partition ordr_394 values less than ( 2221876 ) tablespace ordr_24
, partition ordr_395 values less than ( 2227501 ) tablespace ordr_24
, partition ordr_396 values less than ( 2233126 ) tablespace ordr_24
, partition ordr_397 values less than ( 2238751 ) tablespace ordr_24
, partition ordr_398 values less than ( 2244376 ) tablespace ordr_24
, partition ordr_399 values less than ( 2250001 ) tablespace ordr_24
, partition ordr_400 values less than ( 2255626 ) tablespace ordr_25
, partition ordr_401 values less than ( 2261251 ) tablespace ordr_25
, partition ordr_402 values less than ( 2266876 ) tablespace ordr_25
, partition ordr_403 values less than ( 2272501 ) tablespace ordr_25
, partition ordr_404 values less than ( 2278126 ) tablespace ordr_25
, partition ordr_405 values less than ( 2283751 ) tablespace ordr_25
, partition ordr_406 values less than ( 2289376 ) tablespace ordr_25
, partition ordr_407 values less than ( 2295001 ) tablespace ordr_25
, partition ordr_408 values less than ( 2300626 ) tablespace ordr_25
, partition ordr_409 values less than ( 2306251 ) tablespace ordr_25
, partition ordr_410 values less than ( 2311876 ) tablespace ordr_25
, partition ordr_411 values less than ( 2317501 ) tablespace ordr_25
, partition ordr_412 values less than ( 2323126 ) tablespace ordr_25
, partition ordr_413 values less than ( 2328751 ) tablespace ordr_25
, partition ordr_414 values less than ( 2334376 ) tablespace ordr_25
, partition ordr_415 values less than ( 2340001 ) tablespace ordr_25
, partition ordr_416 values less than ( 2345626 ) tablespace ordr_26
, partition ordr_417 values less than ( 2351251 ) tablespace ordr_26
, partition ordr_418 values less than ( 2356876 ) tablespace ordr_26
, partition ordr_419 values less than ( 2362501 ) tablespace ordr_26
, partition ordr_420 values less than ( 2368126 ) tablespace ordr_26
, partition ordr_421 values less than ( 2373751 ) tablespace ordr_26
, partition ordr_422 values less than ( 2379376 ) tablespace ordr_26
, partition ordr_423 values less than ( 2385001 ) tablespace ordr_26
, partition ordr_424 values less than ( 2390626 ) tablespace ordr_26
, partition ordr_425 values less than ( 2396251 ) tablespace ordr_26
, partition ordr_426 values less than ( 2401876 ) tablespace ordr_26
, partition ordr_427 values less than ( 2407501 ) tablespace ordr_26
, partition ordr_428 values less than ( 2413126 ) tablespace ordr_26
, partition ordr_429 values less than ( 2418751 ) tablespace ordr_26
, partition ordr_430 values less than ( 2424376 ) tablespace ordr_26
, partition ordr_431 values less than ( maxvalue ) tablespace ordr_26
)

  ;

 create table ordr (
   o_id number sort
, o_w_id number
, o_d_id number
, o_c_id number
, o_carrier_id number
, o_ol_cnt number
```

```
, o_all_local number
, o_entry_d date
    , constraint ordr_uk primary key ( o_w_id
, o_d_id
, o_id )
  )
  cluster ordrcluster_queue (
    o_w_id
, o_d_id
, o_id
  );
    set echo off
    spool off
    exit sql.sqlcode;
```

createtable_stok.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatetable.sh Thu Aug 19
13:21:39 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createtable_stok.log
    set echo on
      drop cluster stokcluster including tables ;

create cluster stokcluster (
  s_i_id number
, s_w_id number
  )
  single table
  hashkeys 9000000000
  hash is ( (abs(s_i_id - 1) * 90000 + mod((s_w_id - 1), 90000) + trunc
((s_w_id - 1) / 90000) * 90000 * 100000) )
  size 270
  pctfree 0  initrans 2 maxtrans 2
  storage ( buffer_pool keep ) parallel ( degree 1024 )
  partition by range( s_w_id ) (
partition stok_0 values less than ( 90001 ) tablespace stok_0
, partition stok_1 values less than ( 180001 ) tablespace stok_1
, partition stok_2 values less than ( 270001 ) tablespace stok_2
, partition stok_3 values less than ( 360001 ) tablespace stok_3
, partition stok_4 values less than ( 450001 ) tablespace stok_4
, partition stok_5 values less than ( 540001 ) tablespace stok_5
, partition stok_6 values less than ( 630001 ) tablespace stok_6
, partition stok_7 values less than ( 720001 ) tablespace stok_7
, partition stok_8 values less than ( 810001 ) tablespace stok_8
, partition stok_9 values less than ( 900001 ) tablespace stok_9
, partition stok_10 values less than ( 990001 ) tablespace stok_10
, partition stok_11 values less than ( 1080001 ) tablespace stok_11
, partition stok_12 values less than ( 1170001 ) tablespace stok_12
, partition stok_13 values less than ( 1260001 ) tablespace stok_13
, partition stok_14 values less than ( 1350001 ) tablespace stok_14
, partition stok_15 values less than ( 1440001 ) tablespace stok_15
, partition stok_16 values less than ( 1530001 ) tablespace stok_16
, partition stok_17 values less than ( 1620001 ) tablespace stok_17
, partition stok_18 values less than ( 1710001 ) tablespace stok_18
, partition stok_19 values less than ( 1800001 ) tablespace stok_19
, partition stok_20 values less than ( 1890001 ) tablespace stok_20
, partition stok_21 values less than ( 1980001 ) tablespace stok_21
, partition stok_22 values less than ( 2070001 ) tablespace stok_22
, partition stok_23 values less than ( 2160001 ) tablespace stok_23
, partition stok_24 values less than ( 2250001 ) tablespace stok_24
, partition stok_25 values less than ( 2340001 ) tablespace stok_25
, partition stok_26 values less than ( maxvalue ) tablespace stok_26
)

  ;

create table stok (
  s_i_id number
, s_w_id number
, s_quantity number
, s_ytd number
, s_order_cnt number
, s_remote_cnt number
, s_data varchar2(50)
, s_dist_01 char(24)
, s_dist_02 char(24)
, s_dist_03 char(24)
, s_dist_04 char(24)
, s_dist_05 char(24)
, s_dist_06 char(24)
, s_dist_07 char(24)
, s_dist_08 char(24)
, s_dist_09 char(24)
, s_dist_10 char(24)
)
cluster stokcluster (
  s_i_id
, s_w_id
);
    set echo off
    spool off
    exit sql.sqlcode;
```

createtable_ware.sql

```
/* created automatically by
/export/home/oracle/tpcc_kit_27nodes/scripts/buildcreatetable.sh Thu Aug 19
13:21:25 PDT 2010 */
set timing on
    set sqlblanklines on
    spool createtable_ware.log
    set echo on
      drop cluster warecluster including tables ;


REM alter system set events '70000 trace name context forever, level 1';

create cluster warecluster (
  w_id number
  )
  single table
  hashkeys 90000
  hash is ( (w_id - 1) )
  size 3496
    initrans 2
  storage ( buffer_pool default ) parallel (degree 32)
  partition by range( w_id ) (
partition ware_0 values less than ( 90001 ) tablespace misc_0
, partition ware_1 values less than ( 180001 ) tablespace misc_1
, partition ware_2 values less than ( 270001 ) tablespace misc_2
, partition ware_3 values less than ( 360001 ) tablespace misc_3
, partition ware_4 values less than ( 450001 ) tablespace misc_4
, partition ware_5 values less than ( 540001 ) tablespace misc_5
, partition ware_6 values less than ( 630001 ) tablespace misc_6
, partition ware_7 values less than ( 720001 ) tablespace misc_7
, partition ware_8 values less than ( 810001 ) tablespace misc_8
, partition ware_9 values less than ( 900001 ) tablespace misc_9
, partition ware_10 values less than ( 990001 ) tablespace misc_10
, partition ware_11 values less than ( 1080001 ) tablespace misc_11
, partition ware_12 values less than ( 1170001 ) tablespace misc_12
, partition ware_13 values less than ( 1260001 ) tablespace misc_13
, partition ware_14 values less than ( 1350001 ) tablespace misc_14
, partition ware_15 values less than ( 1440001 ) tablespace misc_15
, partition ware_16 values less than ( 1530001 ) tablespace misc_16
, partition ware_17 values less than ( 1620001 ) tablespace misc_17
, partition ware_18 values less than ( 1710001 ) tablespace misc_18
, partition ware_19 values less than ( 1800001 ) tablespace misc_19
, partition ware_20 values less than ( 1890001 ) tablespace misc_20
, partition ware_21 values less than ( 1980001 ) tablespace misc_21
, partition ware_22 values less than ( 2070001 ) tablespace misc_22
, partition ware_23 values less than ( 2160001 ) tablespace misc_23
, partition ware_24 values less than ( 2250001 ) tablespace misc_24
, partition ware_25 values less than ( 2340001 ) tablespace misc_25
, partition ware_26 values less than ( maxvalue ) tablespace misc_26
)

  ;

create table ware (
  w_id number
, w_ytd number
, w_tax number
, w_name varchar2(10)
, w_street_1 varchar2(20)
, w_street_2 varchar2(20)
, w_city varchar2(20)
, w_state char(2)
, w_zip char(9)
)
cluster warecluster (
  w_id
);
REM alter system set events '70000 trace name context off';
    set echo off
    spool off
    exit sql.sqlcode;
```

createuser.sql

```
#!/bin/sh

echo Creating user tpcc...
$tpcc_sqlplus $tpcc_dba_user_pass @$tpcc_sql_dir/createuser > junk 2>&1
if test $? -ne 0
```

```
then
  exit 1;
else
  exit 0;
fi
```

tkvcinin.sql

```
-- The initnew package for storing variables used in the
-- New Order anonymous block

CREATE OR REPLACE PACKAGE inittpcc
AS
 TYPE intarray IS TABLE OF INTEGER INDEX BY BINARY_INTEGER;
 TYPE distarray IS TABLE OF VARCHAR(24) INDEX BY
BINARY_INTEGER;
 nulldate       DATE;
 TYPE rowidarray IS TABLE OF ROWID INDEX BY PLS_INTEGER;
 s_dist                                        distarray;
 idx1arr                      intarray;
 s_remote                     intarray;
 dist                  intarray;
 row_id                 rowidarray;
 cust_rowid             rowid;
 dist_name              VARCHAR2(11);
 ware_name              VARCHAR2(11);
 c_num                  PLS_INTEGER;

 PROCEDURE init_no(idxarr intarray);
 PROCEDURE init_del;
 PROCEDURE init_pay;
END inittpcc;
/
show errors;

CREATE OR REPLACE PACKAGE BODY inittpcc AS
  PROCEDURE init_no (idxarr  intarray)
  IS
  BEGIN
        -- initialize null date
   nulldate := TO_DATE('01-01-1811', 'MM-DD-YYYY');
    idx1arr := idxarr;
  END init_no;

  PROCEDURE init_del
  IS
  BEGIN
    FOR i IN 1 .. 10 LOOP
      dist(i) := i;
    END LOOP;
  END init_del;

  PROCEDURE init_pay IS
  BEGIN
    NULL;
  END init_pay;

END inittpcc;
/
show errors
exit
```

p_build.ora

```
compatible = 11.2.0.0.0
db_name = recap
control_files =
(/export/home/oracle/tpcc_disks_recap/control_003,/export/home/oracle/tpcc
_disks_recap/control_004)
parallel_max_servers = 64
parallel_min_servers = 64
recovery_parallelism = 64
db_files = 15845
db_cache_size = 130G
db_8k_cache_size  = 8G
db_16k_cache_size  = 100G
dml_locks = 500
statistics_level = basic
processes = 1000
sessions = 1000
transactions = 1000
shared_pool_size = 50G
db_block_size = 4096
undo_management = auto
undo_retention = 2
plsql_optimize_level=2
resource_manager_plan=""
transactions_per_rollback_segment=1
cluster_database = true
_lm_file_affinity="56-488=1:489-921=2:922-1354=3:1355-1787=4:1788-
2220=5:2221-2653=6:2654-3086=7:3087-3519=8:3520-3952=9:3953-
4385=10:4386-4818=11:4819-5251=12:5252-5684=13:5685-6117=14:6118-
6550=15:6551-6983=16:6984-7416=17:7417-7849=18:7850-8282=19:8283-
8715=20:8716-9148=21:9149-9581=22:9582-10014=23:10015-
10447=24:10448-10880=25:10881-11313=26:11314-11746=27"
trace_enabled = FALSE
```

p_create.ora

```
compatible = 11.2.0.0.0
db_name = recap
control_files = (/export/home/oracle/tpcc_disks_recap/control_003,
/export/home/oracle/tpcc_disks_recap/control_004)
db_block_size = 4096
db_cache_size = 10G
db_8k_cache_size = 8G
log_buffer = 10485760
db_16k_cache_size = 8G
undo_management = manual
statistics_level = basic
shared_pool_size = 50G
plsql_optimize_level=2
processes = 2000
sessions = 2000
db_files = 20000
cpu_count = 32
```

p_run.ora

```
compatible = 11.2.0.0.0
aq_tm_processes = 0
db_file_multiblock_read_count = 1
control_files =
(/export/home/oracle/tpcc_disks_recap/control_003,/export/home/oracle/tpcc
_disks_recap/control_004)
db_16k_cache_size  = 100G
db_8k_cache_size  = 4G
db_block_size = 4096
db_cache_size   = 20G
db_keep_cache_size=297G
#db_keep_cache_size=292G
db_recycle_cache_size=15G
shared_pool_size=25G
db_files=14000
db_name = recap
log_buffer = 10485760
plsql_optimize_level=2
timed_statistics = true
fast_start_mttr_target=0
java_pool_size = 0
job_queue_processes=0
log_checkpoint_interval=0
log_checkpoint_timeout = 1700
log_checkpoints_to_alert = TRUE
optimizer_mode = CHOOSE
query_rewrite_enabled = FALSE
replication_dependency_tracking = FALSE
dml_locks = 500
transactions = 1000
undo_management = auto
undo_retention = 2
processes = 1400
cluster_database = true
cluster_database_instances=27
parallel_max_servers = 0
parallel_min_servers = 0
recovery_parallelism = 32
resource_manager_plan=""
transactions_per_rollback_segment=1
db_writer_processes=32
db_block_checking = FALSE
db_block_checksum = FALSE
trace_enabled = FALSE
parallel_execution_message_size=65536
gcs_server_processes=12
db_cache_advice=off
_lm_file_affinity="11774,11778,11781,11811,29,56-
488=1:11777,11799,11828,30,489-921=2:11769,11780,11825,31,922-
1354=3:11771,11779,11822,32,1355-1787=4:11773,11791,11824,33,1788-
2220=5:11768,11783,11832,34,2221-2653=6:11776,11785,11818,35,2654-
3086=7:11770,11782,11819,36,3087-3519=8:11772,11784,11815,37,3520-
3952=9:11775,11786,11827,38,3953-4385=10:11800,11810,39,4386-
4818=11:11789,11814,40,4819-5251=12:11798,11812,41,5252-
5684=13:11801,11806-11809,42,5685-6117=14:11787,11813,43,6118-
6550=15:11804,11833,44,6551-6983=16:11795,11816,45,6984-
7416=17:11793,11821,46,7417-7849=18:11792,11817,47,7850-
8282=19:11805,11829,48,8283-8715=20:11794,11830,49,8716-
9148=21:11803,11834,50,9149-9581=22:11797,11823,51,9582-
```

```
10014=23:11796,11835,52,10015-10447=24:11788,11831,53,10448-
10880=25:11790,11826,54,10881-11313=26:11802,11820,55,11314-
11746=27"
sessions = 1500
statistics_level=BASIC
local_listener = all_listeners
```

tpccload.c

```
#ifdef RCSID
static char *RCSid =
   "$Header: tk_perf/benchmark_kits/tpcc-
new/benchrun/source/server/tpccload.c /main/1 2008/12/15 05:58:52 avliet
Exp $ Copyr (c) 1993 Oracle";
#endif /* RCSID */

/
*==================================================
============+
 |       Copyright (c) 1994  Oracle Corp, Redwood Shores, CA      |
 |                 OPEN SYSTEMS PERFORMANCE GROUP                 |
 |                     All Rights Reserved                        |
 +==================================================
=============+
 | FILENAME
 |    tpccload.c
 | DESCRIPTION
 |    Load or generate TPC-C database tables.
 |    Usage: tpccload -M <# of wares> [options]
 |            options: -A  load all tables
 |                     -w  load ware table
 |                     -d  load dist table
 |                     -c  load cust table (cluster around c_w_id)
 |                     -C  load cust table (cluster around c_id)
 |                     -i  load item table
 |                     -s  load stok table (cluster around s_w_id)
 |                     -S  load stok table (cluster around s_i_id)
 |                     -h  load hist table
 |                     -n  load new-order table
 |                     -o <oline file> load order and order-line table
 |                     -b <ware#>  beginning ware number
 |                     -e <ware#>  ending ware number
 |                     -j <item#>  beginning item number (with -S)
 |                     -k <item#>  ending item number (with -S)
 |                     -l <cid#>  beginning cid number (with -C)
 |                     -m <cid#>  ending cid number (with -C)
 |                     -g  generate rows to standard output
 +==================================================
============*/

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <sys/types.h>
#include "tpcc.h"

#ifdef ORA_NT
#undef boolean
#include <process.h>
#include "dpbcore.h"
# define gettime dpbtimef
# define getcpu  dpbcpu
#define lrand48() ((long)rand() <<15 | rand())
#ifdef __STDC__
#  define PROTO(args)    args
#else
#  define PROTO(args)    ()
#endif
#endif

#define DISTARR 10                 /* dist insert array size                 */
#define CUSTARR 100                              /* cust insert array size
              */
#define STOCARR 100                              /* stok insert array size
              */
#define ITEMARR 100                              /* item insert array size
              */
#define HISTARR 100            /* hist insert array size    */
#define ORDEARR 100            /* order insert array size      */
#define NEWOARR 100            /* new order insert array size  */

#define DISTFAC 10                 /* max. dist id            */
#define CUSTFAC 3000                             /* max. cust id            */
#define STOCFAC 100000                           /* max. stok id            */
#define ITEMFAC 100000                           /* max. item id
              */
#define HISTFAC 30000          /* history / warehouse  */
#define ORDEFAC 3000           /* order / district     */
#define NEWOFAC 900            /* new order / district */

#define C       0              /* constant in non-uniform dist. eqt. */
#define CNUM1   1              /* first constant in non-uniform dist. eqt. */
#define CNUM2   2              /* second constant in non-uniform dist. eqt. */
#define CNUM3   3              /* third constant in non-uniform dist. eqt. */

#define SEED    2              /* seed for random functions */

#define NOT_SERIALIZABLE  8177  /* ORA-08177: transaction not
serializable */
#define SNAPSHOT_TOO_OLD  1555  /* ORA-01555: snapshot too old */
#define RECOVERR -10
#define IRRECERR -20

#define SQLTXTW "INSERT INTO ware (w_id, w_ytd, w_tax, w_name,
w_street_1, w_street_2, w_city, w_state, w_zip) VALUES (:w_id, 30000000,
:w_tax, :w_name, :w_street_1, \
   :w_street_2, :w_city, :w_state, :w_zip)"

#define SQLTXTD "INSERT INTO dist (d_id, d_w_id, d_ytd, d_tax,
d_next_o_id, d_name, d_street_1, d_street_2, d_city, d_state, d_zip)
VALUES (:d_id, :d_w_id,3000000, :d_tax, \
     3001, :d_name, :d_street_1, :d_street_2, :d_city, :d_state, :d_zip)"

#define SQLTXTCQUERY "select /*+ HASH ( cust ) */ count(*) from cust
where c_w_id = :s_c_w_id and c_d_id = :s_c_d_id and c_id = :s_c_id"

#define SQLTXTC "INSERT INTO cust (C_ID, C_D_ID, C_W_ID,
C_FIRST, C_MIDDLE, C_LAST, 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, C_YTD_PAYMENT, C_PAYMENT_CNT,
C_DELIVERY_CNT, C_DATA) VALUES (:c_id, :c_d_id, :c_w_id, \
   :c_first, 'OE', :c_last, :c_street_1, :c_street_2, :c_city, :c_state, \
   :c_zip, :c_phone, SYSDATE, :c_credit, 5000000, :c_discount, -1000, 1000,
1, \
   0, :c_data)"

#define SQLTXTH "INSERT INTO hist (h_c_id, h_c_d_id, h_c_w_id,
h_d_id, h_w_id, h_date, h_amount, h_data) VALUES (:h_c_id, :h_c_d_id,
:h_c_w_id, \
   :h_d_id, :h_w_id, SYSDATE, 1000, :h_data)"

#define SQLTXTSQUERY "select /*+ HASH ( stok ) */ count(*) from stok
where s_w_id = :s_s_w_id and s_i_id = :s_s_i_id "

#define SQLTXTS "INSERT INTO stok (s_i_id, s_w_id,
s_quantity,s_dist_01, s_dist_02, s_dist_03, s_dist_04, s_dist_05 , s_dist_06,
s_dist_07, s_dist_08, s_dist_09, s_dist_10, s_ytd, s_order_cnt, s_remote_cnt,
s_data) \
VALUES (:s_i_id, :s_w_id, :s_quantity, \
   :s_dist_01, :s_dist_02, :s_dist_03, :s_dist_04, :s_dist_05, :s_dist_06, \
   :s_dist_07, :s_dist_08, :s_dist_09, :s_dist_10, 0, 0, 0, :s_data)" \

#define SQLTXTI "INSERT INTO item
(I_ID,I_IM_ID,I_NAME,I_PRICE,I_DATA) VALUES (:i_id, :i_im_id,
:i_name, :i_price, \
   :i_data)"

#define SQLTXTO1 "INSERT INTO ordr (O_ID,
O_D_ID,O_W_ID,O_C_ID,O_ENTRY_D,O_CARRIER_ID,O_OL_CNT,O
_ALL_LOCAL) \
   VALUES (:o_id, :o_d_id, :o_w_id, :o_c_id, \
   SYSDATE, :o_carrier_id, :o_ol_cnt, 1)"

#define SQLTXTO2 "INSERT INTO ordr (O_ID,
O_D_ID,O_W_ID,O_C_ID,O_ENTRY_D,O_CARRIER_ID,O_OL_CNT,O
_ALL_LOCAL) \
   VALUES (:o_id, :o_d_id, :o_w_id, :o_c_id, \
   SYSDATE, 11, :o_ol_cnt, 1)"

#define SQLTXTOL1 "INSERT INTO ordl (OL_O_ID, OL_D_ID,
OL_W_ID, OL_NUMBER, OL_DELIVERY_D, OL_I_ID,
OL_SUPPLY_W_ID, OL_QUANTITY, OL_AMOUNT, OL_DIST_INFO) \
   VALUES (:ol_o_id, :ol_d_id, \
   :ol_w_id, :ol_number, SYSDATE, :ol_i_id, :ol_supply_w_id, 5, 0, \
   :ol_dist_info)"

#define SQLTXTOL2 "INSERT INTO ordl (OL_O_ID, OL_D_ID,
OL_W_ID, OL_NUMBER, OL_DELIVERY_D, OL_I_ID,
OL_SUPPLY_W_ID, OL_QUANTITY, OL_AMOUNT, OL_DIST_INFO) \
   VALUES (:ol_o_id, :ol_d_id, \
   :ol_w_id, :ol_number, to_date('01-Jan-1811'), :ol_i_id, :ol_supply_w_id,
5, :ol_amount, \
   :ol_dist_info)"
```

```
#define SQLTXTNO "INSERT INTO nord (no_o_id, no_d_id, no_w_id)
VALUES (:no_o_id, :no_d_id, :no_w_id)"

#define SQLTXTENHA "alter session set \"_enable_hash_overflow\"=true"
#define SQLTXTDIHA "alter session set \"_enable_hash_overflow\"=false"

static char *lastname[] = {
  "BAR",
  "OUGHT",
  "ABLE",
  "PRI",
  "PRES",
  "ESE",
  "ANTI",
  "CALLY",
  "ATION",
  "EING"
};

char num9[10];
char num16[17];
char str2[3];
char str24[15][25];
int randperm3000[3000];

void initperm();
void randstr();
void randdatastr();
void randnum();
void randlastname (char*, int);
int NURand();
void sysdate();

OCIEnv *tpcenv;
OCIServer *tpcsrv;
OCIError *errhp;
OCISvcCtx *tpcsvc;
OCISession *tpcusr;

OCIStmt *curw;
OCIStmt *curd;
OCIStmt *curc;
OCIStmt *curcs;
OCIStmt *curh;
OCIStmt *curs;
OCIStmt *curss;
OCIStmt *curi;
OCIStmt *curo1;
OCIStmt *curo2;
OCIStmt *curol1;
OCIStmt *curol2;
OCIStmt *curno;

OCIBind *w_id_bp = (OCIBind *) 0;
OCIBind *w_name_bp = (OCIBind *) 0;
OCIBind *w_street1_bp = (OCIBind *) 0;
OCIBind *w_street2_bp = (OCIBind *) 0;
OCIBind *w_city_bp = (OCIBind *) 0;
```

```
OCIBind *w_state_bp = (OCIBind *) 0;
OCIBind *w_zip_bp = (OCIBind *) 0;
OCIBind *w_tax_bp = (OCIBind *) 0;

OCIBind *d_id_bp = (OCIBind *) 0;
OCIBind *d_w_id_bp = (OCIBind *) 0;
OCIBind *d_name_bp = (OCIBind *) 0;
OCIBind *d_street1_bp = (OCIBind *) 0;
OCIBind *d_street2_bp = (OCIBind *) 0;
OCIBind *d_city_bp = (OCIBind *) 0;
OCIBind *d_state_bp = (OCIBind *) 0;
OCIBind *d_zip_bp = (OCIBind *) 0;
OCIBind *d_tax_bp = (OCIBind *) 0;

OCIDefine *s_c_ret_bp = (OCIDefine *) 0;
OCIBind *s_c_id_bp = (OCIBind *) 0;
OCIBind *s_c_d_id_bp = (OCIBind *) 0;
OCIBind *s_c_w_id_bp = (OCIBind *) 0;

OCIBind *c_id_bp = (OCIBind *) 0;
OCIBind *c_d_id_bp = (OCIBind *) 0;
OCIBind *c_w_id_bp = (OCIBind *) 0;
OCIBind *c_first_bp = (OCIBind *) 0;
OCIBind *c_last_bp = (OCIBind *) 0;
OCIBind *c_street1_bp = (OCIBind *) 0;
OCIBind *c_street2_bp = (OCIBind *) 0;
OCIBind *c_city_bp = (OCIBind *) 0;
OCIBind *c_state_bp = (OCIBind *) 0;
OCIBind *c_zip_bp = (OCIBind *) 0;
OCIBind *c_phone_bp = (OCIBind *) 0;
OCIBind *c_discount_bp = (OCIBind *) 0;
OCIBind *c_credit_bp = (OCIBind *) 0;
OCIBind *c_data_bp = (OCIBind *) 0;

OCIBind *i_id_bp = (OCIBind *) 0;
OCIBind *i_im_id_bp = (OCIBind *) 0;
OCIBind *i_name_bp = (OCIBind *) 0;
OCIBind *i_price_bp = (OCIBind *) 0;
OCIBind *i_data_bp = (OCIBind *) 0;

OCIDefine *s_s_ret_bp = (OCIDefine *) 0;
OCIBind *s_s_i_id_bp = (OCIBind *) 0;
OCIBind *s_s_w_id_bp = (OCIBind *) 0;

OCIBind *s_i_id_bp = (OCIBind *) 0;
OCIBind *s_w_id_bp = (OCIBind *) 0;
OCIBind *s_quantity_bp = (OCIBind *) 0;
OCIBind *s_dist_01_bp = (OCIBind *) 0;
OCIBind *s_dist_02_bp = (OCIBind *) 0;
OCIBind *s_dist_03_bp = (OCIBind *) 0;
OCIBind *s_dist_04_bp = (OCIBind *) 0;
OCIBind *s_dist_05_bp = (OCIBind *) 0;
OCIBind *s_dist_06_bp = (OCIBind *) 0;
OCIBind *s_dist_07_bp = (OCIBind *) 0;
OCIBind *s_dist_08_bp = (OCIBind *) 0;
OCIBind *s_dist_09_bp = (OCIBind *) 0;
OCIBind *s_dist_10_bp = (OCIBind *) 0;
OCIBind *s_data_bp = (OCIBind *) 0;
```

```

OCIBind *h_c_id_bp = (OCIBind *) 0;
OCIBind *h_c_d_id_bp = (OCIBind *) 0;
OCIBind *h_c_w_id_bp = (OCIBind *) 0;
OCIBind *h_d_id_bp = (OCIBind *) 0;
OCIBind *h_w_id_bp = (OCIBind *) 0;
OCIBind *h_data_bp = (OCIBind *) 0;

OCIBind *ol_o_id_bp = (OCIBind *) 0;
OCIBind *ol_d_id_bp = (OCIBind *) 0;
OCIBind *ol_w_id_bp = (OCIBind *) 0;
OCIBind *ol_i_id_bp = (OCIBind *) 0;
OCIBind *ol_number_bp = (OCIBind *) 0;
OCIBind *ol_supply_w_id_bp = (OCIBind *) 0;
OCIBind *ol_dist_info_bp = (OCIBind *) 0;
OCIBind *ol_amount_bp = (OCIBind *) 0;

OCIBind *o_id_bp = (OCIBind *) 0;
OCIBind *o_d_id_bp = (OCIBind *) 0;
OCIBind *o_w_id_bp = (OCIBind *) 0;
OCIBind *o_c_id_bp = (OCIBind *) 0;
OCIBind *o_carrier_id_bp = (OCIBind *) 0;
OCIBind *o_ol_cnt_bp  = (OCIBind *) 0;
OCIBind *o_ocnt_bp = (OCIBind *) 0;
OCIBind *o_olcnt_bp  = (OCIBind *) 0;


OCIBind *no_o_id_bp  = (OCIBind *) 0;
OCIBind *no_d_id_bp  = (OCIBind *) 0;
OCIBind *no_w_id_bp  = (OCIBind *) 0;

void myusage()
{
  fprintf (stderr, "\n");
  fprintf (stderr, "Usage:\ttpccload -M <multiplier> [options]\n");
  fprintf (stderr, "options:\n");
  fprintf (stderr, "\t-A :\tload all tables\n");
  fprintf (stderr, "\t-w :\tload ware table\n");
  fprintf (stderr, "\t-d :\tload dist table\n");
  fprintf (stderr, "\t-c :\tload cust table (cluster around c_w_id\n");
  fprintf (stderr, "\t-C :\tload cust table (cluster around c_id\n");
  fprintf (stderr, "\t-i :\tload item table\n");
  fprintf (stderr, "\t-s :\tload stok table (cluster around s_w_id)\n");
  fprintf (stderr, "\t-S :\tload stok table (cluster around s_i_id)\n");
  fprintf (stderr, "\t-h :\tload hist table\n");
  fprintf (stderr, "\t-n :\tload new-order table\n");
  fprintf (stderr, "\t-o <oline file> :\tload order and order-line table\n");
  fprintf (stderr, "\t-b <ware#> :\tbeginning ware number\n");
  fprintf (stderr, "\t-e <ware#> :\tending ware number\n");
  fprintf (stderr, "\t-j <item#> :\tbeginning item number (with -S)\n");
  fprintf (stderr, "\t-k <item#> :\tending item number (with -S)\n");
  fprintf (stderr, "\t-l <cid#> :\tbeginning cid number (with -C)\n");
  fprintf (stderr, "\t-m <cid#> :\tending cid number (with -C)\n");
  fprintf (stderr, "\t-g :\tgenerate rows to standard output\n");
  fprintf (stderr,"\t   $tpcc_bench must be set to the location of the kit\n");
  fprintf (stderr, "\n");
  exit(1);
}
```

```

int sqlfile(fnam,linebuf)
char   *fnam;
text   *linebuf;
{
    FILE *fd;
    int nulpt = 0;
    char realfile[512];

    sprintf(realfile,"%s",fnam);
    fd = fopen(realfile,"r");
    if (!fd)
    {
      return (0);
    }
    while (fgets((char *)linebuf+nulpt, SQL_BUF_SIZE, fd))
    {
        nulpt = strlen((char *)linebuf);
    }
    return(nulpt);
}

void quit()
{
  OCIERROR(errhp,OCISessionEnd ( tpcsvc,errhp, tpcusr,
OCI_DEFAULT));
  OCIERROR(errhp,OCIServerDetach ( tpcsrv, errhp, OCI_DEFAULT));
  OCIHandleFree((dvoid *)tpcusr, OCI_HTYPE_SESSION);
  OCIHandleFree((dvoid *)tpcsvc, OCI_HTYPE_SVCCTX);
  OCIHandleFree((dvoid *)errhp, OCI_HTYPE_ERROR);
  OCIHandleFree((dvoid *)tpcsrv, OCI_HTYPE_SERVER);
  OCIHandleFree((dvoid *)tpcenv, OCI_HTYPE_ENV);
}

void main (argc, argv)
int argc;
char *argv[];
{
  char *uid="tpcc";
  char *pwd="tpcc";
  int scale=0;
  int i, j;
  int loop;
  long loopcount;
  int cid;
  int dwid;
  int cdid;
  int cwid;
  int sid;
  int swid;
  int olcnt;
  long nrows;
  long row;

  int w_id;
  char w_name[11];
  char w_street_1[21];
  char w_street_2[21];
char w_city[21];
char w_state[2];
char w_zip[9];
float w_tax;

int d_id[10];
int d_w_id[10];
char d_name[10][11];
char d_street_1[10][21];
char d_street_2[10][21];
char d_city[10][21];
char d_state[10][2];
char d_zip[10][9];
float d_tax[10];

int s_c_id;
int s_c_d_id;
int s_c_w_id;
int s_c_count;

int c_id[100];
int c_d_id[100];
int c_w_id[100];
char c_first[100][17];
char c_last[100][17];
char c_street_1[100][21];
char c_street_2[100][21];
char c_city[100][21];
char c_state[100][2];
char c_zip[100][9];
char c_phone[100][16];
char c_credit[100][2];
float c_discount[100];
char c_data[100][501];

int i_id[100];
int i_im_id[100];
int i_price[100];
char i_name[100][25];
char i_data[100][51];

int s_s_count;
int s_s_i_id;
int s_s_w_id;

int s_i_id[100];
int s_w_id[100];
int s_quantity[100];
char s_dist_01[100][25];
char s_dist_02[100][25];
char s_dist_03[100][25];
char s_dist_04[100][25];
char s_dist_05[100][25];
char s_dist_06[100][25];
char s_dist_07[100][25];
char s_dist_08[100][25];
char s_dist_09[100][25];
char s_dist_10[100][25];
char s_data[100][51];

int h_w_id[100];
int h_d_id[100];
int h_c_id[100];
char h_data[100][25];

int o_id[100];
int o_d_id[100];
int o_w_id[100];
int o_c_id[100];
int o_carrier_id[100];
int o_ol_cnt[100];

int ol_o_id[1500];
int ol_d_id[1500];
int ol_w_id[1500];
int ol_number[1500];
int ol_i_id[1500];
int ol_supply_w_id[1500];
int ol_amount[1500];
char ol_dist_info[1500][24];
int o_cnt;
int ol_cnt;

ub2 ol_o_id_len[1500];
ub2 ol_d_id_len[1500];
ub2 ol_w_id_len[1500];
ub2 ol_number_len[1500];
ub2 ol_i_id_len[1500];
ub2 ol_supply_w_id_len[1500];
ub2 ol_dist_info_len[1500];
ub2 ol_amount_len[1500];

ub4 ol_o_id_clen;
ub4 ol_d_id_clen;
ub4 ol_w_id_clen;
ub4 ol_number_clen;
ub4 ol_i_id_clen;
ub4 ol_supply_w_id_clen;
ub4 ol_dist_info_clen;
ub4 ol_amount_clen;

ub2 o_id_len[100];
ub2 o_d_id_len[100];
ub2 o_w_id_len[100];
ub2 o_c_id_len[100];
ub2 o_carrier_id_len[100];
ub2 o_ol_cnt_len[100];

ub4 o_id_clen;
ub4 o_d_id_clen;
ub4 o_w_id_clen;
ub4 o_c_id_clen;
ub4 o_carrier_id_clen;
ub4 o_ol_cnt_clen;

text stmbuf[16*1024];
```

```
  int no_o_id[100];
  int no_d_id[100];
  int no_w_id[100];

  char sdate[30];

#ifdef ORA_NT
  clock_t begin_time, end_time;
  clock_t begin_cpu, end_cpu;

  char *arg_ptr,  **end_args;
#else
  double begin_time, end_time;
  double begin_cpu, end_cpu;
  double gettime(), getcpu();

  extern int getopt();
  extern char *optarg;
  extern int optind, opterr;
  int opt;
#endif

  char        *argstr="M:AwdcCisShno:b:e:j:k:l:m:g";
  int do_A=0;
  int do_w=0;
  int do_d=0;
  int do_i=0;
  int do_c=0;
  int do_C=0;
  int do_s=0;
  int do_S=0;
  int do_h=0;
  int do_o=0;
  int do_n=0;
  int gen=0;
  int bware=1;
  int eware=0;
  int bitem=1;
  int eitem=0;
  int bcid=1;
  int ecid=0;

  FILE *olfp=NULL;
  char olfname[100];
  char* basename;
  int status;
#ifdef ORA_NT
  char fname[100];
  FILE *logfile;
#endif /* ORA_NT */

/*---------------------------------------------------------------+
 | Parse command line -- look for scale factor.
                |
 +---------------------------------------------------------------*/

  if (argc == 1) {
    myusage ();
  }

#ifdef ORA_NT
  end_args = argv + argc;
  for (++argv; argv < end_args; )
  {
    arg_ptr = *argv++;

       if (*arg_ptr != '-')
       {
         myusage ();
       } else
       {
      switch (arg_ptr[1]) {
      case '?': myusage ();
              break;
      case 'M': scale = atoi (*argv++);
              break;
      case 'A': do_A = 1;
              break;
      case 'w': do_w = 1;
              break;
      case 'd': do_d = 1;
              break;
      case 'c': do_c = 1;
              break;
      case 'C': do_C = 1;
              break;
      case 'i': do_i = 1;
              break;
      case 's': do_s = 1;
              break;
      case 'S': do_S = 1;
              break;
      case 'h': do_h = 1;
              break;
      case 'n': do_n = 1;
              break;
      case 'o': do_o = 1;
              strcpy (olfname, *argv++);
              break;
      case 'b': bware = atoi (*argv++);
              break;
      case 'e': eware = atoi (*argv++);
              break;
      case 'j': bitem = atoi (*argv++);
              break;
      case 'k': eitem = atoi (*argv++);
              break;
      case 'l': bcid = atoi (*argv++);
              break;
      case 'm': ecid = atoi (*argv++);
              break;
      case 'g': gen = 1;
              strcpy (fname, *argv++);
              break;
      case 'l': logfile=fopen(*argv++,"w");
              break;
      default: fprintf (stderr, "THIS SHOULD NEVER HAPPEN!!!\n");
              fprintf (stderr, "(reached default case in getopt ())\n");
              myusage ();
      }
        }
  }


#else

  while ((opt = getopt (argc, argv, argstr)) != -1) {
    switch (opt) {
      case '?': myusage ();
              break;
      case 'M': scale = atoi (optarg);
              break;
      case 'A': do_A = 1;
              break;
      case 'w': do_w = 1;
              break;
      case 'd': do_d = 1;
              break;
      case 'c': do_c = 1;
              break;
      case 'C': do_C = 1;
              break;
      case 'i': do_i = 1;
              break;
      case 's': do_s = 1;
              break;
      case 'S': do_S = 1;
              break;
      case 'h': do_h = 1;
              break;
      case 'n': do_n = 1;
              break;
      case 'o': do_o = 1;
              strcpy (olfname, optarg);
              break;
      case 'b': bware = atoi (optarg);
              break;
      case 'e': eware = atoi (optarg);
              break;
      case 'j': bitem = atoi (optarg);
              break;
      case 'k': eitem = atoi (optarg);
              break;
      case 'l': bcid = atoi (optarg);
              break;
      case 'm': ecid = atoi (optarg);
              break;
      case 'g': gen = 1;
              break;
      default: fprintf (stderr, "THIS SHOULD NEVER HAPPEN!!!\n");
              fprintf (stderr, "(reached default case in getopt ())\n");
              myusage ();
    }
```

```
  }

# endif /* ORA_NT */

/*-------------------------------------------------------------*|
|                Rudimentary error checking
                |
|*-------------------------------------------------------------*/

  if (scale  < 1) {
    fprintf (stderr, "Invalid scale factor: '%d'\n", scale);
    myusage ();
  }

  if (!(do_A || do_w || do_d || do_c || do_C || do_i || do_s || do_S || do_h || do_o
||
       do_n)) {
    fprintf (stderr, "What should I load???\n");
    myusage ();
  }

  if (gen && (do_A || (do_w + do_d + do_c + do_C + do_i + do_s + do_S +
do_h + do_o +
                        do_n > 1))) {
    fprintf (stderr, "Can only generate table one at a time\n");
    myusage ();
  }

  if (do_S && (do_A || do_s)) {
    fprintf (stderr, "Cluster stock table around s_w_id or s_i_id?\n");
    myusage ();
  }

  if (do_C && (do_A || do_c)) {
    fprintf (stderr, "Cluster cust table around c_w_id or c_id?\n");
    myusage ();
  }

  if (eware <= 0)
    eware = scale;
  if (ecid <= 0)
    ecid = CUSTFAC;
  if (eitem <= 0)
    eitem = STOCFAC;

  if (do_C) {
    if ((bcid  < 1) || (bcid > CUSTFAC)) {
      fprintf (stderr, "Invalid beginning cid number: '%d'\n", bcid);
      myusage ();
    }

    if ((ecid  < bcid) || (ecid > CUSTFAC)) {
      fprintf (stderr, "Invalid ending cid number: '%d'\n", ecid);
      myusage ();
    }
  }
  if (do_S) {
    if ((bitem  < 1) || (bitem > STOCFAC)) {
      fprintf (stderr, "Invalid beginning item number: '%d'\n", bitem);
      myusage ();
    }

    if ((eitem  < bitem) || (eitem > STOCFAC)) {
      fprintf (stderr, "Invalid ending item number: '%d'\n", eitem);
      myusage ();
    }
  }
  if (do_o) {
    if ((basename = getenv ("tpcc_bench")) == NULL)
    {
      fprintf (stderr, "$tpcc_bench is not set");
      myusage ();
    }
  }

  if ((bware  < 1) || (bware > scale)) {
    fprintf (stderr, "Invalid beginning warehouse number: '%d'\n", bware);
    myusage ();
  }

  if ((eware  < bware) || (eware > scale)) {
    fprintf (stderr, "Invalid ending warehouse number: '%d'\n", eware);
    myusage ();
  }

  if (gen && do_o) {
    if ((olfp = fopen (olfname, "w")) == NULL) {
      fprintf (stderr, "Can't open '%s' for writing order lines\n", olfname);
      myusage ();
    }



  }

/*---------------------------------------------------------------+
 | Prepare to insert into database.                                        |
 +--------------------------------------------------------------*/

  sysdate (sdate);
  if (!gen) {

    /* log on to Oracle */

    OCIInitialize(OCI_DEFAULT|OCI_OBJECT,(dvoid *)0,0,0,0);
    OCIEnvInit(&tpcenv, OCI_DEFAULT, 0, (dvoid **)0);
    OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&tpcsrv,
OCI_HTYPE_SERVER, 0 , (dvoid **)0);
    OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&errhp,
OCI_HTYPE_ERROR, 0 , (dvoid **)0);
    OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&tpcsvc,
OCI_HTYPE_SVCCTX, 0 , (dvoid **)0);
    OCIServerAttach(tpcsrv, errhp, (text *)0,0,OCI_DEFAULT);
    OCIAttrSet((dvoid *)tpcsvc, OCI_HTYPE_SVCCTX, (dvoid *)tpcsrv,
            (ub4)0,OCI_ATTR_SERVER, errhp);
    OCIHandleAlloc((dvoid *)tpcenv, (dvoid **)&tpcusr,
OCI_HTYPE_SESSION, 0 , (dvoid **)0);
    OCIAttrSet((dvoid *)tpcusr, OCI_HTYPE_SESSION, (dvoid *)uid,
            (ub4)strlen(uid),OCI_ATTR_USERNAME, errhp);
    OCIAttrSet((dvoid *)tpcusr, OCI_HTYPE_SESSION, (dvoid *)pwd,
(ub4)strlen(pwd),
         OCI_ATTR_PASSWORD, errhp);
    OCIERROR(errhp, OCISessionBegin(tpcsvc, errhp, tpcusr,
OCI_CRED_RDBMS, OCI_DEFAULT));

    OCIAttrSet(tpcsvc, OCI_HTYPE_SVCCTX, tpcusr, 0,
OCI_ATTR_SESSION, errhp);

    fprintf (stderr, "\nConnected to Oracle userid '%s/%s'.\n", uid, pwd);

    /* open cursors and parse statement */
    if (do_A || do_w)  {
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curw),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      OCIERROR(errhp,OCIStmtPrepare(curw, errhp, (text *)SQLTXTW,
               strlen((char *)SQLTXTW), (ub4) OCI_NTV_SYNTAX, (ub4)
OCI_DEFAULT));
    }

    if (do_A || do_d) {
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curd),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      OCIERROR(errhp,OCIStmtPrepare(curd, errhp, (text *)SQLTXTD,
               strlen((char *)SQLTXTD), (ub4) OCI_NTV_SYNTAX, (ub4)
OCI_DEFAULT));
    }

    if (do_A || do_c || do_C) {
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curc),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      OCIERROR(errhp,OCIStmtPrepare(curc, errhp, (text *)SQLTXTC,
               strlen((char *)SQLTXTC), (ub4) OCI_NTV_SYNTAX, (ub4)
OCI_DEFAULT));
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curcs),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      OCIERROR(errhp,OCIStmtPrepare(curcs, errhp, (text
*)SQLTXTCQUERY,
               strlen((char *)SQLTXTCQUERY), (ub4) OCI_NTV_SYNTAX,
(ub4) OCI_DEFAULT));
    }

    if (do_A || do_h) {
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curh),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      OCIERROR(errhp,OCIStmtPrepare(curh, errhp, (text *)SQLTXTH,
               strlen((char *)SQLTXTH), (ub4) OCI_NTV_SYNTAX, (ub4)
OCI_DEFAULT));
    }

    if (do_A || do_s || do_S) {
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curs),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      OCIERROR(errhp,OCIStmtPrepare(curs, errhp, (text *)SQLTXTS,
               strlen((char *)SQLTXTS), (ub4) OCI_NTV_SYNTAX, (ub4)
OCI_DEFAULT));
```

```
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curss),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      OCIERROR(errhp,OCIStmtPrepare(curss, errhp, (text
*)SQLTXTSQUERY,
            strlen((char *)SQLTXTSQUERY), (ub4) OCI_NTV_SYNTAX,
(ub4) OCI_DEFAULT));
    }

    if (do_A || do_i) {
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curi),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      OCIERROR(errhp,OCIStmtPrepare(curi, errhp, (text *)SQLTXTI,
            strlen((char *)SQLTXTI), (ub4) OCI_NTV_SYNTAX, (ub4)
OCI_DEFAULT));
    }

    if (do_A || do_o) {
      int stat;
      char fname[160];
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curo1),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      DISCARD strcpy(fname,basename);
      DISCARD strcat(fname, "/");
      DISCARD strcat(fname, "benchrun/blocks/load_ordordl.sql");
      stat = sqlfile(fname, stmbuf);
      if (!stat)
      {
        fprintf (stderr, "unable to open %s \n",fname);
        quit();
        exit(1);
      }
      OCIERROR(errhp,OCIStmtPrepare(curo1, errhp, stmbuf,
            strlen((char *)stmbuf), (ub4) OCI_NTV_SYNTAX, (ub4)
OCI_DEFAULT));
    }

    if (do_A || do_n) {
      OCIERROR(errhp,OCIHandleAlloc(tpcenv,(dvoid **)(&curno),
OCI_HTYPE_STMT, 0, (dvoid**)0));
      OCIERROR(errhp,OCIStmtPrepare(curno, errhp, (text *)SQLTXTNO,
            strlen((char *)SQLTXTNO), (ub4) OCI_NTV_SYNTAX, (ub4)
OCI_DEFAULT));
    }

    /* bind variables */

    /* warehouse */

    if (do_A || do_w) {
      OCIERROR(errhp, OCIBindByName(curw, &w_id_bp, errhp, (text *)
(":w_id"), strlen((":w_id")),
              (ub1 *)&(w_id), sizeof(w_id), SQLT_INT, (dvoid *) 0, (ub2
*)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curw, &w_name_bp, errhp,(text
*)":w_name", strlen(":w_name"),
              (ub1 *)w_name, 11, SQLT_STR, (dvoid *) 0, (ub2 *)0, (ub2
*)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curw, &w_street1_bp, errhp,
(text *)":w_street_1",
                    strlen(":w_street_1"), (ub1 *)w_street_1, 21,
SQLT_STR,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curw, &w_street2_bp, errhp,
(text *)":w_street_2",
                    strlen(":w_street_2"), (ub1 *)w_street_2, 21,
SQLT_STR,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curw, &w_city_bp, errhp, (text
*)":w_city",
                    strlen(":w_city"), (ub1 *)w_city, 21, SQLT_STR,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curw, &w_state_bp, errhp, (text
*)":w_state",
                    strlen(":w_state"), (ub1 *)w_state, 2, SQLT_CHR,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curw, &w_zip_bp, errhp, (text
*)":w_zip",
                    strlen(":w_zip"), (ub1 *)w_zip, 9, SQLT_CHR,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curw, &w_tax_bp, errhp, (text
*)":w_tax",
                    strlen(":w_tax"), (ub1 *) & w_tax, sizeof(w_tax),
SQLT_FLT,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
    }

    /* district */

    if (do_A || do_d) {
      OCIERROR(errhp, OCIBindByName(curd, &d_id_bp, errhp, (text
*)":d_id",
                    strlen(":d_id"), (ub1 *)d_id, sizeof(int),
SQLT_INT,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curd, &d_w_id_bp, errhp, (text
*)":d_w_id",
                    strlen(":d_w_id"), (ub1 *)d_w_id, sizeof(int),
SQLT_INT,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curd, &d_name_bp, errhp, (text
*)":d_name",
                    strlen(":d_name"), (ub1 *)d_name, 11,
SQLT_STR,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curd, &d_street1_bp, errhp, (text
*)":d_street_1",
                    strlen(":d_street_1"), (ub1 *)d_street_1, 21,
SQLT_STR,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curd, &d_street2_bp, errhp, (text
*)":d_street_2",
                    strlen(":d_street_2"), (ub1 *)d_street_2, 21,
SQLT_STR,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curd, &d_city_bp, errhp, (text
*)":d_city",
                    strlen(":d_city"), (ub1 *)d_city, 21, SQLT_STR,
                    (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curd, &d_state_bp, errhp, (text
*)":d_state",
              strlen(":d_state"), (ub1 *)d_state, 2, SQLT_CHR,
              (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curd, &d_zip_bp, errhp, (text
*)":d_zip",
              strlen(":d_zip"), (ub1 *)d_zip, 9, SQLT_CHR,
              (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curd, &d_tax_bp, errhp, (text
*)":d_tax",
              strlen(":d_tax"), (ub1 *)d_tax, sizeof(float), SQLT_FLT,
              (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
    }

    /* customer */

    if (do_A || do_c || do_C) {
      OCIERROR(errhp, OCIBindByName(curcs, &s_c_id_bp, errhp, (text
*)":s_c_id",
              strlen(":s_c_id"), (ub1 *)&s_c_id, sizeof(int), SQLT_INT,
              (dvoid *) 0, (ub2 *)0, (ub2 *)0,
              (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curcs, &s_c_w_id_bp, errhp,
```

```
(text *)":s_c_w_id",
                strlen(":s_c_w_id"), (ub1 *)&s_c_w_id, sizeof(int),
SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curcs, &s_c_d_id_bp, errhp,
(text *)":s_c_d_id",
                strlen(":s_c_d_id"), (ub1 *)&s_c_d_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIDefineByPos(curcs,&s_c_ret_bp,errhp,1,&s_c_count,sizeof(int),S
QLT_INT,\
                0,0,0,OCI_DEFAULT);

        OCIERROR(errhp, OCIBindByName(curc, &c_id_bp, errhp, (text
*)":c_id",
                strlen(":c_id"), (ub1 *)c_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_d_id_bp, errhp, (text
*)":c_d_id",
                strlen(":c_d_id"), (ub1 *)c_d_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_w_id_bp, errhp, (text
*)":c_w_id",
                strlen(":c_w_id"), (ub1 *)c_w_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_first_bp, errhp, (text
*)":c_first",
                                strlen(":c_first"), (ub1 *)c_first, 17, SQLT_STR,
                                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_last_bp, errhp, (text
*)":c_last",
                                strlen(":c_last"), (ub1 *)c_last, 17, SQLT_STR,
                                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_street1_bp, errhp, (text
*)":c_street_1",
                strlen(":c_street_1"), (ub1 *)c_street_1, 21, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_street2_bp, errhp, (text
*)":c_street_2",
                strlen(":c_street_2"), (ub1 *)c_street_2, 21, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
```

```
        OCIERROR(errhp, OCIBindByName(curc, &c_city_bp, errhp, (text
*)":c_city",
                strlen(":c_city"), (ub1 *)c_city, 21, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_state_bp, errhp, (text
*)":c_state",
                strlen(":c_state"), (ub1 *)c_state, 2, SQLT_CHR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_zip_bp, errhp, (text
*)":c_zip",
                strlen(":c_zip"), (ub1 *)c_zip, 9, SQLT_CHR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_phone_bp, errhp, (text
*)":c_phone",
                strlen(":c_phone"), (ub1 *)c_phone, 16, SQLT_CHR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_credit_bp, errhp, (text
*)":c_credit",
                strlen(":c_credit"), (ub1 *)c_credit, 2, SQLT_CHR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_discount_bp, errhp,
(text *)":c_discount",
                strlen(":c_discount"), (ub1 *)c_discount, sizeof(float),
SQLT_FLT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curc, &c_data_bp, errhp, (text
*)":c_data",
                strlen(":c_data"), (ub1 *)c_data, 501, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
    }

    /* item */

    if (do_A || do_i) {
        OCIERROR(errhp, OCIBindByName(curi, &i_id_bp, errhp, (text
*)":i_id",
                strlen(":i_id"), (ub1 *)i_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curi, &i_im_id_bp, errhp, (text
*)":i_im_id",
                strlen(":i_im_id"), (ub1 *)i_im_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
```

```
        OCIERROR(errhp, OCIBindByName(curi, &i_name_bp, errhp, (text
*)":i_name",
                strlen(":i_name"), (ub1 *)i_name, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curi, &i_price_bp, errhp, (text
*)":i_price",
                strlen(":i_price"), (ub1 *)i_price, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curi, &i_data_bp, errhp, (text
*)":i_data",
                strlen(":i_data"), (ub1 *)i_data, 51, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
    }

    /* stock */

    if (do_A || do_s || do_S) {
        OCIERROR(errhp, OCIBindByName(curss, &s_s_i_id_bp, errhp, (text
*)":s_s_i_id",
                strlen(":s_s_i_id"), (ub1 *)&s_s_i_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curss, &s_s_w_id_bp, errhp,
(text *)":s_s_w_id",
                strlen(":s_s_w_id"), (ub1 *)&s_s_w_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
        OCIDefineByPos(curss,&s_s_ret_bp,errhp,1,&s_s_count,sizeof(int),SQ
LT_INT,\
                0,0,0,OCI_DEFAULT);

        OCIERROR(errhp, OCIBindByName(curs, &s_i_id_bp, errhp, (text
*)":s_i_id",
                strlen(":s_i_id"), (ub1 *)s_i_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curs, &s_w_id_bp, errhp, (text
*)":s_w_id",
                strlen(":s_w_id"), (ub1 *)s_w_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curs, &s_quantity_bp, errhp,
(text *)":s_quantity",
                strlen(":s_quantity"), (ub1 *)s_quantity, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

        OCIERROR(errhp, OCIBindByName(curs, &s_dist_01_bp, errhp, (text
*)":s_dist_01",
```

```
                strlen(":s_dist_01"), (ub1 *)s_dist_01, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));


      OCIERROR(errhp, OCIBindByName(curs, &s_dist_02_bp, errhp, (text
*)":s_dist_02",
                strlen(":s_dist_02"), (ub1 *)s_dist_02, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));


      OCIERROR(errhp, OCIBindByName(curs, &s_dist_03_bp, errhp, (text
*)":s_dist_03",
                strlen(":s_dist_03"), (ub1 *)s_dist_03, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));


      OCIERROR(errhp, OCIBindByName(curs, &s_dist_04_bp, errhp, (text
*)":s_dist_04",
                strlen(":s_dist_04"), (ub1 *)s_dist_04, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));


      OCIERROR(errhp, OCIBindByName(curs, &s_dist_05_bp, errhp, (text
*)":s_dist_05",
                strlen(":s_dist_05"), (ub1 *)s_dist_05, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));


      OCIERROR(errhp, OCIBindByName(curs, &s_dist_06_bp, errhp, (text
*)":s_dist_06",
                strlen(":s_dist_06"), (ub1 *)s_dist_06, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));


      OCIERROR(errhp, OCIBindByName(curs, &s_dist_07_bp, errhp, (text
*)":s_dist_07",
                strlen(":s_dist_07"), (ub1 *)s_dist_07, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));


      OCIERROR(errhp, OCIBindByName(curs, &s_dist_08_bp, errhp, (text
*)":s_dist_08",
                strlen(":s_dist_08"), (ub1 *)s_dist_08, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));


      OCIERROR(errhp, OCIBindByName(curs, &s_dist_09_bp, errhp, (text
*)":s_dist_09",
                strlen(":s_dist_09"), (ub1 *)s_dist_09, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));


      OCIERROR(errhp, OCIBindByName(curs, &s_dist_10_bp, errhp, (text
*)":s_dist_10",
                strlen(":s_dist_10"), (ub1 *)s_dist_10, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curs, &s_data_bp, errhp, (text
*)":s_data",
                strlen(":s_data"), (ub1 *)s_data, 51, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
    }

    /* history */

    if (do_A || do_h) {
      OCIERROR(errhp, OCIBindByName(curh, &h_c_id_bp, errhp, (text
*)":h_c_id",
                strlen(":h_c_id"), (ub1 *)h_c_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curh, &h_c_d_id_bp, errhp, (text
*)":h_c_d_id",
                strlen(":h_c_d_id"), (ub1 *)h_d_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curh, &h_c_w_id_bp, errhp,
(text *)":h_c_w_id",
                strlen(":h_c_w_id"), (ub1 *)h_w_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curh, &h_d_id_bp, errhp, (text
*)":h_d_id",
                strlen(":h_d_id"), (ub1 *)h_d_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curh, &h_w_id_bp, errhp, (text
*)":h_w_id",
                strlen(":h_w_id"), (ub1 *)h_w_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curh, &h_data_bp, errhp, (text
*)":h_data",
                strlen(":h_data"), (ub1 *)h_data, 25, SQLT_STR,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

    }

    /* order and order_line (delivered) */

    if (do_A || do_o) {

      for (i = 0; i < ORDEARR; i++ ) {
        o_id_len[i] = sizeof(int);
        o_d_id_len[i] = sizeof(int);
        o_w_id_len[i] = sizeof(int);
        o_c_id_len[i] = sizeof(int);
        o_carrier_id_len[i] = sizeof(int);
        o_ol_cnt_len[i] = sizeof(int);
      }

      OCIERROR(errhp, OCIBindByName(curo1, &ol_o_id_bp, errhp, (text
*)":ol_o_id",
                strlen(":ol_o_id"), (ub1 *)ol_o_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)ol_o_id_len, (ub2 *)0,
                (ub4) 15*ORDEARR, (ub4 *)&ol_o_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &ol_d_id_bp, errhp, (text
*)":ol_d_id",
                strlen(":ol_d_id"), (ub1 *)ol_d_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)ol_d_id_len, (ub2 *)0,
                (ub4) 15*ORDEARR, (ub4 *) &ol_d_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &ol_w_id_bp, errhp, (text
*)":ol_w_id",
                strlen(":ol_w_id"), (ub1 *)ol_w_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)ol_w_id_len, (ub2 *)0,
                (ub4) 15*ORDEARR, (ub4 *) &ol_w_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &ol_number_bp, errhp,
(text *)":ol_number",
                strlen(":ol_number"), (ub1 *)ol_number, sizeof(int),
SQLT_INT,
                (dvoid *) 0, (ub2 *)ol_number_len, (ub2 *)0,
                (ub4) 15*ORDEARR, (ub4 *) &ol_number_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &ol_i_id_bp, errhp, (text
*)":ol_i_id",
                strlen(":ol_i_id"), (ub1 *)ol_i_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)ol_i_id_len, (ub2 *)0,
                (ub4) 15*ORDEARR, (ub4 *) &ol_i_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &ol_supply_w_id_bp,
errhp, (text *)":ol_supply_w_id",
                strlen(":ol_supply_w_id"), (ub1 *)ol_supply_w_id, sizeof(int),
SQLT_INT,
                (dvoid *) 0, (ub2 *)ol_supply_w_id_len, (ub2 *)0,
                (ub4) 15*ORDEARR, (ub4 *) &ol_supply_w_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &ol_dist_info_bp, errhp,
(text *)":ol_dist_info",
```

```
                strlen(":ol_dist_info"), (ub1 *)ol_dist_info, 24, SQLT_CHR,
                (dvoid *) 0, (ub2 *)ol_dist_info_len, (ub2 *)0,
                (ub4) 15*ORDEARR, (ub4 *) &ol_dist_info_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &ol_amount_bp, errhp,
(text *)":ol_amount",
                strlen(":ol_amount"), (ub1 *)ol_amount, sizeof(int),
SQLT_INT,
                (dvoid *) 0, (ub2 *)ol_amount_len, (ub2 *)0,
                (ub4) 15*ORDEARR, (ub4 *) &ol_amount_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &o_id_bp, errhp, (text
*)":o_id",
                strlen(":o_id"), (ub1 *)o_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)o_id_len, (ub2 *)0,
                (ub4) ORDEARR, (ub4 *) &o_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &o_d_id_bp, errhp, (text
*)":o_d_id",
                strlen(":o_d_id"), (ub1 *)o_d_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)o_d_id_len, (ub2 *)0,
                (ub4) ORDEARR, (ub4 *) &o_d_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &o_w_id_bp, errhp, (text
*)":o_w_id",
                strlen(":o_w_id"), (ub1 *)o_w_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)o_w_id_len, (ub2 *)0,
                (ub4) ORDEARR, (ub4 *) &o_w_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &o_c_id_bp, errhp, (text
*)":o_c_id",
                strlen(":o_c_id"), (ub1 *)o_c_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)o_c_id_len, (ub2 *)0,
                (ub4) ORDEARR, (ub4 *) &o_c_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &o_carrier_id_bp, errhp,
(text *)":o_carrier_id",
                strlen(":o_carrier_id"), (ub1 *)o_carrier_id, sizeof(int),
SQLT_INT,
                (dvoid *) 0, (ub2 *)o_carrier_id_len, (ub2 *)0,
                (ub4) ORDEARR, (ub4 *) &o_carrier_id_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &o_ol_cnt_bp, errhp,
(text *)":o_ol_cnt",
                strlen(":o_ol_cnt"), (ub1 *)o_ol_cnt, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)o_ol_cnt_len, (ub2 *)0,
                (ub4) ORDEARR, (ub4 *) &o_ol_cnt_clen, (ub4)
OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &o_ocnt_bp, errhp, (text
*)":order_rows",
                strlen(":order_rows"), (ub1 *)&o_cnt, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curo1, &o_olcnt_bp, errhp, (text
*)":ordl_rows",
                strlen(":ordl_rows"), (ub1 *)&ol_cnt, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
    }

    /* new order */

    if (do_A || do_n) {
      OCIERROR(errhp, OCIBindByName(curno, &no_o_id_bp, errhp, (text
*)":no_o_id",
                strlen(":no_o_id"), (ub1 *)no_o_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curno, &no_d_id_bp, errhp, (text
*)":no_d_id",
                strlen(":no_d_id"), (ub1 *)no_d_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));

      OCIERROR(errhp, OCIBindByName(curno, &no_w_id_bp, errhp,
(text *)":no_w_id",
                strlen(":no_w_id"), (ub1 *)no_w_id, sizeof(int), SQLT_INT,
                (dvoid *) 0, (ub2 *)0, (ub2 *)0,
                (ub4) 0, (ub4 *) 0, (ub4) OCI_DEFAULT));
    }
  }

/*---------------------------------------------------------------+
 | Initialize random number generator
               |
 +---------------------------------------------------------------*/

  srand (SEED);
#ifndef ORA_NT
  srand48 (SEED);
#endif
  initperm ();


/*---------------------------------------------------------------+
 | Load the WAREHOUSE table.
               |
 +---------------------------------------------------------------*/

  if (do_A || do_w) {
    nrows = (long)eware - (long)bware + 1;

    fprintf (stderr, "Loading/generating warehouse: w%d - w%d (%ld
rows)\n",
           bware, eware, nrows);

    begin_time = gettime ();
    begin_cpu = getcpu ();

    for (loop = bware; loop <= eware; loop++) {

      w_tax = (float) ((lrand48 () % 2001) * 0.0001);
      randstr (w_name, 6, 10);
      randstr (w_street_1, 10, 20);
      randstr (w_street_2, 10, 20);
      randstr (w_city, 10, 20);
      randstr (str2, 2, 2);
      randnum (num9, 9);
      num9[4] = num9[5] = num9[6] = num9[7] = num9[8] = '1';

      if (gen) {
        printf ("%d 30000000 %6.4f %s %s %s %s %s %s\n", loop, w_tax,
               w_name, w_street_1, w_street_2, w_city, str2, num9);
        fflush (stdout);
      }
      else {
        w_id = loop;
        strncpy (w_state, str2, 2);
        strncpy (w_zip, num9, 9);

               status = OCIStmtExecute(tpcsvc, curw, errhp, (ub4) 1, (ub4) 0,
                 (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                 (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
               if (status != OCI_SUCCESS) {
                 fprintf (stderr, "Error at ware %d\n", loop);
                 OCIERROR(errhp, status);
                 quit ();
          exit (1);
        }
      }
    }

    end_time = gettime ();
    end_cpu = getcpu ();
    fprintf (stderr, "Done.  %ld rows loaded/generated in %10.2f sec. (%10.2f
cpu)\n\n", nrows, end_time - begin_time, end_cpu - begin_cpu);
  }

/*---------------------------------------------------------------+
 | Load the DISTRICT table.
               |
 +---------------------------------------------------------------*/

  if (do_A || do_d) {
    nrows = ((long)eware - (long)bware + 1) * DISTFAC;

    fprintf (stderr, "Loading/generating district: w%d - w%d (%ld rows)\n",
           bware, eware, nrows);

    begin_time = gettime ();
    begin_cpu = getcpu ();

    dwid = bware - 1;
```

```
    for (row = 0; row < nrows; ) {
      dwid++;

      for (i = 0; i < DISTARR; i++, row++) {
        d_tax[i] = (float) ((lrand48 () % 2001) * 0.0001);
        randstr (d_name[i], 6, 10);
        randstr (d_street_1[i], 10, 20);
        randstr (d_street_2[i], 10, 20);
        randstr (d_city[i], 10, 20);
        randstr (str2, 2, 2);
        randnum (num9, 9);
        num9[4] = num9[5] = num9[6] = num9[7] = num9[8] = '1';

        if (gen) {
          printf ("%d %d 3000000 %6.4f 3001 %s %s %s %s %s %s\n",
                  i + 1, dwid, d_tax[i], d_name[i], d_street_1[i],
                                d_street_2[i], d_city[i], str2, num9 );
        }
        else {
          d_id[i] = i + 1;
          d_w_id[i] = dwid;
          strncpy (d_state[i], str2, 2);
          strncpy (d_zip[i], num9, 9);
        }
      }

      if (gen) {
        fflush (stdout);
      }
      else {
        status = OCIStmtExecute(tpcsvc, curd, errhp, (ub4) DISTARR, (ub4)
0,
                    (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                    (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
        if (status != OCI_SUCCESS) {
                          fprintf (stderr, "Aborted at ware %d, dist 1\n", dwid);
            OCIERROR(errhp, status);
            quit ();
            exit (1);
        }
      }
    }

    end_time = gettime ();
    end_cpu = getcpu ();
    fprintf (stderr, "Done.  %ld rows loaded/generated in %10.2f sec. (%10.2f
cpu)\n\n", nrows, end_time - begin_time, end_cpu - begin_cpu);
  }

/*--------------------------------------------------------------+
 | Load the CUSTOMER table.
                |
 +--------------------------------------------------------------*/

  if (do_A || do_c) {

    nrows = ((long)eware - (long)bware + 1) * CUSTFAC * DISTFAC;

    fprintf (stderr, "Loading/generating customer: w%d - w%d (%ld rows)\n
",
             bware, eware, nrows);

    if (getenv("tpcc_hash_overflow")) {
      fprintf(stderr,"Hash overflow is enabled\n");
      OCIHandleAlloc(tpcenv, (dvoid **)&curi, OCI_HTYPE_STMT, 0,
(dvoid**)0);
      sprintf ((char *) stmbuf, SQLTXTENHA);
      OCIStmtPrepare(curi, errhp, stmbuf, strlen((char *)stmbuf),
                  OCI_NTV_SYNTAX, OCI_DEFAULT);
      OCIERROR(errhp,OCIStmtExecute(tpcsvc, curi,
errhp,1,0,0,0,OCI_DEFAULT));
      OCIHandleFree(curi, OCI_HTYPE_STMT);
      fprintf (stderr,"Customer loaded for horizontal partitioning\n");
    }
    else
    {
      fprintf (stderr,"Customer not loaded for horizontal partitioning\n");
    }
    begin_time = gettime ();
    begin_cpu = getcpu ();

    s_c_id = 1;
    s_c_d_id = 1;
    s_c_w_id = bware;

    while (s_c_w_id <= eware) {
      status = OCIStmtExecute(tpcsvc, curcs, errhp, (ub4) 1, (ub4) 0,
             (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
             (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
        if (status != OCI_SUCCESS) {
             OCIERROR(errhp, status);
             quit ();
             exit (1);
        }

        if (s_c_count == 0) {
          s_c_w_id--;
          break;
        }
        else s_c_w_id++;
    }

    if (s_c_w_id < bware ) s_c_w_id = bware;
    else {
      if (s_c_w_id > eware ) s_c_w_id = eware;
      while (s_c_d_id <= DISTFAC) {
        status = OCIStmtExecute(tpcsvc, curcs, errhp, (ub4) 1, (ub4) 0,
               (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
               (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
          if (status != OCI_SUCCESS) {
                             fprintf (stderr, "Select failed\n");
               OCIERROR(errhp, status);
               quit ();
               exit (1);
          }
          if (s_c_count == 0) {
             s_c_d_id--;
             break;
          }
          else s_c_d_id++;
      }
      if (s_c_d_id > DISTFAC) s_c_d_id = DISTFAC;

      while (s_c_id <= CUSTFAC) {
        status = OCIStmtExecute(tpcsvc, curcs, errhp, (ub4) 1, (ub4) 0,
               (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
               (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
          if (status != OCI_SUCCESS) {
               OCIERROR(errhp, status);
               quit ();
               exit (1);
          }
          if (s_c_count == 0) break;
          else s_c_id++;
      }
    }
    if (s_c_id > CUSTFAC) {
      if (s_c_d_id == DISTFAC) {
        s_c_d_id=1;
        s_c_w_id++;
      } else {
               s_c_d_id++;
      }
      s_c_id=1;
    }

    fprintf (stderr, "start at wid: %d, did: %d, cid: %d\n   ",s_c_w_id,
s_c_d_id, s_c_id);
    cid = s_c_id - 1;
    cdid = s_c_d_id;
    cwid = s_c_w_id;
    nrows = ((long)eware - (long)s_c_w_id + 1) * DISTFAC * CUSTFAC -
((long)s_c_d_id - 1) * CUSTFAC - (long)s_c_id + 1;
    fprintf (stderr, "remaining rows: %ld\n   ", nrows);
    loopcount = 0;

    for (row = 0; row < nrows; ) {
      for (i = 0; i < CUSTARR && row < nrows; i++, row++) {
        cid++;
        if (cid > CUSTFAC) {        /* cycle cust id */
          cid = 1;                  /* cheap mod */
          cdid++;                   /* shift dist cycle */
          if (cdid > DISTFAC) {
            cdid = 1;
            cwid++;                 /* shift ware cycle */
          }
        }
        c_id[i] = cid;
        c_d_id[i] = cdid;
        c_w_id[i] = cwid;
        if (cid <= 1000)
          randlastname (c_last[i], cid - 1);
        else
          randlastname (c_last[i], NURand (255, 0, 999, CNUM1));
```

```
        c_credit[i][1] = 'C';
        if (lrand48 () % 10)
          c_credit[i][0] = 'G';
        else
          c_credit[i][0] = 'B';
        c_discount[i] = (float)((lrand48 () % 5001) * 0.0001);
        randstr (c_first[i], 8, 16);
        randstr (c_street_1[i], 10, 20);
        randstr (c_street_2[i], 10, 20);
        randstr (c_city[i], 10, 20);
        randstr (str2, 2, 2);
        randnum (num9, 9);
        num9[4] = num9[5] = num9[6] = num9[7] = num9[8] = '1';
        randnum (num16, 16);
        randstr (c_data[i], 300, 500);

        if (gen) {
          printf ("%d %d %d %s OE %s %s %s %s %s %s %s %s %cC
5000000 %6.4f -1000 1000 1 0 %s\n",
                  cid, cdid, cwid, c_first[i], c_last[i],
                  c_street_1[i], c_street_2[i], c_city[i], str2, num9,
                  num16, sdate, c_credit[i][0], c_discount[i], c_data[i]);
        }
        else {
          strncpy (c_state[i], str2, 2);
          strncpy (c_zip[i], num9, 9);
          strncpy (c_phone[i], num16, 16);
        }
      }

      if (gen) {
        fflush (stdout);
      }
      else {
        status = OCIStmtExecute(tpcsvc, curc, errhp, (ub4) i, (ub4) 0,
                  (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                  (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);

        if (status != OCI_SUCCESS) {
                          fprintf (stderr, "Aborted at w_id %d, d_id %d, c_id
%d\n",
                  c_w_id[0], c_d_id[0], c_id[0]);
              OCIERROR(errhp, status);
              quit ();
              exit (1);
        }
      }

      if ((++loopcount) % 50)
        fprintf (stderr, ".");
      else
        fprintf (stderr, " %ld rows committed\n    ", row);
    }

    end_time = gettime ();
    end_cpu = getcpu ();
    fprintf (stderr, "Done.  %ld rows loaded/generated in %10.2f sec. (%10.2f
cpu)\n\n", nrows < 0 ? 0 : nrows, end_time - begin_time, end_cpu -
begin_cpu);
     if (getenv("tpcc_hash_overflow")) {
       fprintf(stderr,"Hash overflow is disabled\n");
       OCIHandleAlloc(tpcenv, (dvoid **)&curi, OCI_HTYPE_STMT, 0,
(dvoid**)0);
       sprintf ((char *) stmbuf, SQLTXTDIHA);
       OCIStmtPrepare(curi, errhp, stmbuf, strlen((char *)stmbuf),
                  OCI_NTV_SYNTAX, OCI_DEFAULT);
       OCIERROR(errhp,OCIStmtExecute(tpcsvc, curi,
errhp,1,0,0,0,OCI_DEFAULT));
       OCIHandleFree(curi, OCI_HTYPE_STMT);
     }
   }


/*-------------------------------------------------------------+
 | Load the CUSTOMER table (cluster around c_id)               |
 +-------------------------------------------------------------*/

   if (do_C) {

     srand (bcid);
#ifndef ORA_NT
     srand48 (bcid);
#endif

     nrows = ((long)ecid - (long)bcid + 1) * ((long)eware - (long)bware +1) *
DISTFAC;

     fprintf (stderr, "Loading/generating customer: c%d - c%d, w%d - w%d
(%ld rows)\n    ", bcid, ecid, bware, eware, nrows);

     if (getenv("tpcc_hash_overflow")) {
       fprintf(stderr,"Hash overflow is enabled\n");
       OCIHandleAlloc(tpcenv, (dvoid **)&curi, OCI_HTYPE_STMT, 0,
(dvoid**)0);
       sprintf ((char *) stmbuf, SQLTXTENHA);
       OCIStmtPrepare(curi, errhp, stmbuf, strlen((char *)stmbuf),
                  OCI_NTV_SYNTAX, OCI_DEFAULT);
       OCIERROR(errhp,OCIStmtExecute(tpcsvc, curi,
errhp,1,0,0,0,OCI_DEFAULT));
       OCIHandleFree(curi, OCI_HTYPE_STMT);
       fprintf (stderr,"Customer loaded for horizontal partitioning\n");
     }
     else
     {
       fprintf (stderr,"Customer not loaded for horizontal partitioning\n");
     }
     begin_time = gettime ();
     begin_cpu = getcpu ();

     s_c_id = bcid;
     s_c_d_id = 1;
     s_c_w_id = bware;

     while (s_c_id <= ecid) {
       status = OCIStmtExecute(tpcsvc, curcs, errhp, (ub4) 1, (ub4) 0,
              (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
              (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
       if (status != OCI_SUCCESS) {
           OCIERROR(errhp, status);
           quit ();
           exit (1);
       }

       if (s_c_count == 0) {
         s_c_id--;
         break;
       }
       else s_c_id++;
     }

     if (s_c_id < bcid ) s_c_id = bcid;
     else {
       if (s_c_id > ecid ) s_c_id = ecid;
       while (s_c_w_id <= eware) {
         status = OCIStmtExecute(tpcsvc, curcs, errhp, (ub4) 1, (ub4) 0,
                (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
         if (status != OCI_SUCCESS) {
                           fprintf (stderr, "Select failed\n");
                OCIERROR(errhp, status);
                quit ();
                exit (1);
         }
         if (s_c_count == 0) {
           s_c_w_id--;
           break;
         }
         else s_c_w_id++;
       }
       if (s_c_w_id > eware) s_c_w_id = eware;
       else if (s_c_w_id < bware) s_c_w_id = bware;

       while (s_c_d_id <= DISTFAC) {
         status = OCIStmtExecute(tpcsvc, curcs, errhp, (ub4) 1, (ub4) 0,
                (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
         if (status != OCI_SUCCESS) {
                OCIERROR(errhp, status);
                quit ();
                exit (1);
         }
         if (s_c_count == 0) break;
         else s_c_d_id++;
       }
     }

     if (s_c_d_id > DISTFAC) {
       s_c_d_id=1;
       if (s_c_w_id==eware) {
         s_c_w_id=bware;
         s_c_id++;
       }
       else s_c_w_id++;
     }
```

```
    fprintf (stderr, "start at cid: %d, wid: %d, did: %d\n   ",s_c_id, s_c_w_id,
s_c_d_id);
    cid = s_c_id;
    cdid = s_c_d_id-1;
    cwid = s_c_w_id;
    nrows = ((long)ecid - (long)s_c_id + 1) * ((long)eware - (long)bware +
1) * DISTFAC - ((long)s_c_w_id - 1) * DISTFAC - (long)s_c_d_id + 1;
    fprintf (stderr, "remaining rows: %ld\n   ", nrows);
    loopcount = 0;

    for (row = 0; row < nrows; ) {
      for (i = 0; i < CUSTARR && row < nrows; i++, row++) {
        cdid++;
        if (cdid > DISTFAC) {        /* cycle dist id */
          cdid = 1;                  /* cheap mod */
          cwid++;                    /* shift dist cycle */
          if (cwid > eware) {
            cwid = bware;              /* shift ware cycle */
            cid++;
          }
        }
        c_id[i] = cid;
        c_d_id[i] = cdid;
        c_w_id[i] = cwid;
        if (cid <= 1000)
          randlastname (c_last[i], cid - 1);
        else
          randlastname (c_last[i], NURand (255, 0, 999, CNUM1));
        c_credit[i][1] = 'C';
        if (lrand48 () % 10)
          c_credit[i][0] = 'G';
        else
          c_credit[i][0] = 'B';
        c_discount[i] = (float)((lrand48 () % 5001) * 0.0001);
        randstr (c_first[i], 8, 16);
        randstr (c_street_1[i], 10, 20);
        randstr (c_street_2[i], 10, 20);
        randstr (c_city[i], 10, 20);
        randstr (str2, 2, 2);
        randnum (num9, 9);
        num9[4] = num9[5] = num9[6] = num9[7] = num9[8] = '1';
        randnum (num16, 16);
        randstr (c_data[i], 300, 500);

        if (gen) {
          printf ("%d %d %d %s OE %s %s %s %s %s %s %s %cC
5000000 %6.4f -1000 1000 1 0 %s\n",
                cid, cdid, cwid, c_first[i], c_last[i],
                c_street_1[i], c_street_2[i], c_city[i], str2, num9,
                num16, sdate, c_credit[i][0], c_discount[i], c_data[i]);
        }
        else {
          strncpy (c_state[i], str2, 2);
          strncpy (c_zip[i], num9, 9);
          strncpy (c_phone[i], num16, 16);
        }
      }

      if (gen) {
        fflush (stdout);
      }
      else {
        status = OCIStmtExecute(tpcsvc, curc, errhp, (ub4) i, (ub4) 0,
                (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);

        if (status != OCI_SUCCESS) {
                          fprintf (stderr, "Aborted at w_id %d, d_id %d, c_id
%d\n",
                c_w_id[0], c_d_id[0], c_id[0]);
            OCIERROR(errhp, status);
            quit ();
            exit (1);
        }
      }

      if ((++loopcount) % 50)
        fprintf (stderr, ".");
      else
        fprintf (stderr, " %ld rows committed\n   ", row);
    }

    end_time = gettime ();
    end_cpu = getcpu ();
    fprintf (stderr, "Done.  %ld rows loaded/generated in %10.2f sec. (%10.2f
cpu)\n\n", nrows < 0 ? 0 : nrows, end_time - begin_time, end_cpu -
begin_cpu);
    if (getenv("tpcc_hash_overflow")) {
      fprintf(stderr,"Hash overflow is disabled\n");
      OCIHandleAlloc(tpcenv, (dvoid **)&curi, OCI_HTYPE_STMT, 0,
(dvoid**)0);
      sprintf ((char *) stmbuf, SQLTXTDIHA);
      OCIStmtPrepare(curi, errhp, stmbuf, strlen((char *)stmbuf),
                OCI_NTV_SYNTAX, OCI_DEFAULT);
      OCIERROR(errhp,OCIStmtExecute(tpcsvc, curi,
errhp,1,0,0,0,OCI_DEFAULT));
      OCIHandleFree(curi, OCI_HTYPE_STMT);
    }
  }


/*---------------------------------------------------------------+
 | Load the ITEM table.
                                |
 +---------------------------------------------------------------*/

  if (do_A || do_i) {
    nrows = ITEMFAC;

    fprintf (stderr, "Loading/generating item: (%ld rows)\n   ", nrows);

    begin_time = gettime ();
    begin_cpu = getcpu ();

    loopcount = 0;

    for (row = 0; row < nrows; ) {
      for (i = 0; i < ITEMARR; i++, row++) {
        i_im_id[i] = (lrand48 () % 10000) + 1;
        i_price[i] = ((lrand48 () % 9901) + 100);
        randstr (i_name[i], 14, 24);
        randdatastr (i_data[i], 26, 50);

        if (gen) {
          printf ("%d %d %s %d %s\n", row + 1, i_im_id[i], i_name[i],
                i_price[i], i_data[i]);
        }
        else {
          i_id[i] = row + 1;
        }
      }

      if (gen) {
        fflush (stdout);
      }
      else {
        status = OCIStmtExecute(tpcsvc, curi, errhp, (ub4) ITEMARR, (ub4)
0,
                (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
        if (status != OCI_SUCCESS) {
                          fprintf (stderr, "Aborted at i_id %d\n", i_id[0]);
            OCIERROR(errhp, status);
            quit ();
            exit (1);
        }
      }

      if ((++loopcount) % 50)
        fprintf (stderr, ".");
      else
        fprintf (stderr, " %ld rows committed\n   ", row);
    }

    end_time = gettime ();
    end_cpu = getcpu ();
    fprintf (stderr, "Done.  %ld rows loaded/generated in %10.2f sec. (%10.2f
cpu)\n\n", nrows, end_time - begin_time, end_cpu - begin_cpu);
  }


/*---------------------------------------------------------------+
 | Load the STOCK table.
              |
 +---------------------------------------------------------------*/

  if (do_A || do_s) {

    nrows = ((long)eware - (long)bware + 1) * STOCFAC;

    fprintf (stderr, "Loading/generating stock: w%d - w%d (%ld rows)\n   ",
          bware, eware, nrows);
```

```
    begin_time = gettime ();
    begin_cpu = getcpu ();

    s_s_i_id = 1;
    s_s_w_id = bware;

    while (s_s_w_id <= eware) {
      status = OCIStmtExecute(tpcsvc, curss, errhp, (ub4) 1, (ub4) 0,
             (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
             (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
        if (status != OCI_SUCCESS) {
             OCIERROR(errhp, status);
             quit ();
             exit (1);
        }
        if (s_s_count == 0) {
          s_s_w_id--;
          break;
        }
        else s_s_w_id++;
    }

    if (s_s_w_id < bware ) s_s_w_id = bware;
    else {
      if (s_s_w_id > eware) s_s_w_id = eware;
      while (s_s_i_id<=STOCFAC) {
        status = OCIStmtExecute(tpcsvc, curss, errhp, (ub4) 1, (ub4) 0,
               (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
               (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
          if (status != OCI_SUCCESS) {
               OCIERROR(errhp, status);
               quit ();
               exit (1);
          }
          if (s_s_count == 0) {
            break;
          }
          else s_s_i_id++;
      }
    }
    if (s_s_i_id > STOCFAC) {
      s_s_i_id=1;
      s_s_w_id++;
    }

    fprintf(stderr,"start at s_i_id: %d, s_w_id: %d\n   ", s_s_i_id, s_s_w_id);

    sid = s_s_i_id - 1;
    swid = s_s_w_id;
    nrows = ((long)eware - (long)s_s_w_id + 1) * STOCFAC -
( (long)s_s_i_id - 1);
    fprintf (stderr, "remaining rows: %ld\n   ", nrows);
    loopcount = 0;

    for (row = 0; row < nrows; ) {
       /* added row < nrows condition on next line - alex.ni */
              for (i = 0; (i < STOCARR) && (row < nrows); i++, row++) {
         if (++sid > STOCFAC) {        /* cheap mod */
           sid = 1;
           swid++;
         }
         s_quantity[i] = (lrand48 () % 91) + 10;
         randstr (s_dist_01[i], 24, 24);
         randstr (s_dist_02[i], 24, 24);
         randstr (s_dist_03[i], 24, 24);
         randstr (s_dist_04[i], 24, 24);
         randstr (s_dist_05[i], 24, 24);
         randstr (s_dist_06[i], 24, 24);
         randstr (s_dist_07[i], 24, 24);
         randstr (s_dist_08[i], 24, 24);
         randstr (s_dist_09[i], 24, 24);
         randstr (s_dist_10[i], 24, 24);
         randdatastr (s_data[i], 26, 50);

         if (gen) {
           printf ("%d %d %d %s %s %s %s %s %s %s %s %s %s 0 0 0
%s\n",
                  sid, swid, s_quantity[i], s_dist_01[i], s_dist_02[i],
                  s_dist_03[i], s_dist_04[i], s_dist_05[i], s_dist_06[i],
                  s_dist_07[i], s_dist_08[i], s_dist_09[i], s_dist_10[i],
                  s_data[i]);
         }
         else {
           s_i_id[i] = sid;
           s_w_id[i] = swid;
         }
       }

       if (gen) {
         fflush (stdout);
       }
       else {
                /* Changed to STOCKARR to i - alex.ni */
         status = OCIStmtExecute(tpcsvc, curs, errhp, (ub4) i, (ub4) 0,
                  (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                  (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
         if (status != OCI_SUCCESS) {
                    fprintf (stderr, "Aborted at w_id %d, s_i_id %d\n",
s_w_id[0], s_i_id[0]);
             OCIERROR(errhp, status);
             quit ();
             exit (1);
         }
       }

       if ((++loopcount) % 50)
         fprintf (stderr, ".");
       else
         fprintf (stderr, " %ld rows committed\n   ", row);
     }

     end_time = gettime ();
     end_cpu = getcpu ();
     fprintf (stderr, "Done.  %ld rows loaded/generated in %10.2f sec. (%10.2f
cpu)\n\n", nrows < 0 ? 0 : nrows, end_time - begin_time, end_cpu -
begin_cpu);
  }

/*-----------------------------------------------------------------+
 | Load the STOCK table (cluster around s_i_id).                   |
 +-----------------------------------------------------------------*/

  if (do_S) {

    nrows = ((long)eitem - (long)bitem + 1) * ((long)eware - (long)bware +
1);

    fprintf (stderr, "Loading/generating stock: i%d - i%d, w%d - w%d (%ld
rows)\n   ", bitem, eitem, bware, eware, nrows);

    begin_time = gettime ();
    begin_cpu = getcpu ();

    s_s_i_id = bitem;
    s_s_w_id = bware;

    while (s_s_i_id <= eitem) {
      status = OCIStmtExecute(tpcsvc, curss, errhp, (ub4) 1, (ub4) 0,
             (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
             (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
        if (status != OCI_SUCCESS) {
             OCIERROR(errhp, status);
             quit ();
             exit (1);
        }
        if (s_s_count == 0) {
          s_s_i_id--;
          break;
        }
        else s_s_i_id++;
    }

    if (s_s_i_id < bitem ) s_s_i_id = bitem;
    else {
      if (s_s_i_id > eitem) s_s_i_id = eitem;
      while (s_s_w_id <= eware) {
        status = OCIStmtExecute(tpcsvc, curss, errhp, (ub4) 1, (ub4) 0,
               (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
               (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
          if (status != OCI_SUCCESS) {
               OCIERROR(errhp, status);
               quit ();
               exit (1);
          }
          if (s_s_count == 0) {
            break;
          }
          else s_s_w_id++;
      }
    }
    if (s_s_w_id > eware) {
      s_s_w_id=bware;
      s_s_i_id++;
    }
```

```
    fprintf(stderr,"start at s_i_id: %d, s_w_id: %d\n   ", s_s_i_id, s_s_w_id);

    sid = s_s_i_id;
    swid = s_s_w_id - 1;
    nrows = ((long)eitem - (long)s_s_i_id + 1) * ((long)eware - (long)bware
+ 1) - ((long)s_s_w_id - (long)bware);
    fprintf (stderr, "remaining rows: %ld\n   ", nrows);
    loopcount = 0;

    for (row = 0; row < nrows; ) {
      for (i = 0; i < STOCARR && row < nrows; i++, row++) {
        if (++swid > eware) {          /* cheap mod */
          swid = bware;
          sid++;
        }
        s_quantity[i] = (lrand48 () % 91) + 10;
        randstr (s_dist_01[i], 24, 24);
        randstr (s_dist_02[i], 24, 24);
        randstr (s_dist_03[i], 24, 24);
        randstr (s_dist_04[i], 24, 24);
        randstr (s_dist_05[i], 24, 24);
        randstr (s_dist_06[i], 24, 24);
        randstr (s_dist_07[i], 24, 24);
        randstr (s_dist_08[i], 24, 24);
        randstr (s_dist_09[i], 24, 24);
        randstr (s_dist_10[i], 24, 24);
        randdatastr (s_data[i], 26, 50);

        if (gen) {
          printf ("%d %d %d %s %s %s %s %s %s %s %s %s %s 0 0 0
%s\n",
                  sid, swid, s_quantity[i], s_dist_01[i], s_dist_02[i],
                  s_dist_03[i], s_dist_04[i], s_dist_05[i], s_dist_06[i],
                  s_dist_07[i], s_dist_08[i], s_dist_09[i], s_dist_10[i],
                  s_data[i]);
        }
        else {
          s_i_id[i] = sid;
          s_w_id[i] = swid;
        }
      }

      if (gen) {
        fflush (stdout);
      }
      else {
        status = OCIStmtExecute(tpcsvc, curs, errhp, (ub4) i, (ub4) 0,
                 (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                 (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
        if (status != OCI_SUCCESS) {
            fprintf (stderr, "Aborted at w_id %d, s_i_id %d\n", s_w_id[0],
s_i_id[0]);
            OCIERROR(errhp, status);
            quit ();
            exit (1);
        }
      }

      if ((++loopcount) % 50)
        fprintf (stderr, ".");
      else
        fprintf (stderr, " %ld rows committed\n   ", row);
    }

    end_time = gettime ();
    end_cpu = getcpu ();
    fprintf (stderr, "Done.  %ld rows loaded/generated in %10.2f sec. (%10.2f
cpu)\n\n", nrows < 0 ? 0 : nrows, end_time - begin_time, end_cpu -
begin_cpu);
  }

/*---------------------------------------------------------------+
 | Load the HISTORY table.
                 |
 +---------------------------------------------------------------*/

  if (do_A || do_h) {
    nrows = ((long)eware - (long)bware + 1) * HISTFAC;

    fprintf (stderr, "Loading/generating history: w%d - w%d (%ld rows)\n   ",
             bware, eware, nrows);

    begin_time = gettime ();
    begin_cpu = getcpu ();

    cid = 0;
    cdid = 1;
    cwid = bware;
    loopcount = 0;

    for (row = 0; row < nrows; ) {
      for (i = 0; i < HISTARR; i++, row++) {
        cid++;
        if (cid > CUSTFAC) {        /* cycle cust id */
          cid = 1;                  /* cheap mod */
          cdid++;                   /* shift district cycle */
          if (cdid > DISTFAC) {
            cdid = 1;
            cwid++;                 /* shift warehouse cycle */
          }
        }
        h_c_id[i] = cid;
        h_d_id[i] = cdid;
        h_w_id[i] = cwid;
        randstr (h_data[i], 12, 24);
        if (gen) {
          printf ("%d %d %d %d %d %s 1000 %s\n", cid, cdid, cwid, cdid,
                  cwid, sdate, h_data[i]);
        }
      }

      if (gen) {
        fflush (stdout);
      }
      else {
        status = OCIStmtExecute(tpcsvc, curh, errhp, (ub4) HISTARR, (ub4)
0,
                 (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                 (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS);
        if (status != OCI_SUCCESS) {
                  fprintf (stderr, "Aborted at w_id %d, d_id %d, c_id
%d\n",
                 h_w_id[0], h_d_id[0], h_c_id[0]);
            OCIERROR(errhp, status);
            quit ();
            exit (1);
        }
      }

      if ((++loopcount) % 50)
        fprintf (stderr, ".");
      else
        fprintf (stderr, " %ld rows committed\n   ", row);
    }

    end_time = gettime ();
    end_cpu = getcpu ();
    fprintf (stderr, "Done.  %ld rows loaded/generated in %10.2f sec. (%10.2f
cpu)\n\n", nrows, end_time - begin_time, end_cpu - begin_cpu);
  }

/*---------------------------------------------------------------+
 | Load the ORDERS and ORDER-LINE table.
                 |
 +---------------------------------------------------------------*/

  if (do_A || do_o) {

    int batch_olcnt;

    nrows = ((long)eware - (long)bware + 1) * ORDEFAC * DISTFAC;

    fprintf (stderr, "Loading/generating orders and order-line: w%d - w%d
(%ld ord, ~%ld ordl)\n   ", bware, eware, nrows, nrows * 10);

    begin_time = gettime ();
    begin_cpu = getcpu ();

    cid = 0;
    cdid = 1;
    cwid = bware;
    loopcount = 0;

    for (row = 0; row < nrows; ) {

      batch_olcnt = 0;

      for (i = 0; i < ORDEARR; i++, row++) {
        cid++;
        if (cid > ORDEFAC) {        /* cycle cust id */
          cid = 1;                  /* cheap mod */
          cdid++;                   /* shift district cycle */
          if (cdid > DISTFAC) {
```

```
          cdid = 1;
          cwid++;            /* shift warehouse cycle */
        }
      }
      o_carrier_id[i] = lrand48 () % 10 + 1;
      o_ol_cnt[i] = olcnt = lrand48 () % 11 + 5;

      if (gen) {
        if (cid < 2101) {
          printf ("%d %d %d %d %s %d %d 1\n", cid, cdid, cwid,
                  randperm3000[cid - 1], sdate,o_carrier_id[i],
                  o_ol_cnt[i]);
        }
        else {
                 /* set carrierid to 11 instead of null */
          printf ("%d %d %d %d %s 11 %d 1\n", cid, cdid, cwid,
                  randperm3000[cid - 1], sdate, o_ol_cnt[i]);
        }
      }
      else {
        o_id[i] = cid;
        o_d_id[i] = cdid;
        o_w_id[i] = cwid;
        o_c_id[i] = randperm3000[cid - 1];
        if (cid >= 2101 ) {
           o_carrier_id[i] = 11;
        }
      }

      for (j = 0; j < o_ol_cnt[i]; j++, batch_olcnt++ ) {
        ol_i_id[batch_olcnt] = sid = lrand48 () % 100000 + 1;
        if (cid < 2101)
          ol_amount[batch_olcnt] = 0;
        else
          ol_amount[batch_olcnt] = (lrand48 () % 999999 + 1) ;
        randstr (str24[j], 24, 24);

        if (gen) {
          if (cid < 2101) {
            fprintf (olfp, "%d %d %d %d %s %d %d 5 %ld %s\n", cid,
                     cdid, cwid, j + 1, sdate, ol_i_id[batch_olcnt], cwid,
                     ol_amount[batch_olcnt], str24[j]);
          }
          else {
            /* Insert a default date instead of null date */
            fprintf (olfp, "%d %d %d %d 01-Jan-1811 %d %d 5 %ld %s\n",
cid,
                     cdid, cwid, j + 1, ol_i_id[batch_olcnt], cwid,
                     ol_amount[batch_olcnt], str24[j]);
          }
        }
        else {
          ol_o_id[batch_olcnt] = cid;
          ol_d_id[batch_olcnt] = cdid;
          ol_w_id[batch_olcnt] = cwid;
          ol_number[batch_olcnt] = j + 1;
          ol_supply_w_id[batch_olcnt] = cwid;
          strncpy (ol_dist_info[batch_olcnt], str24[j], 24);
```

```
          }
        }
        if (gen) {
          fflush (olfp);
        }
      }

      o_cnt =  ORDEARR;
      ol_cnt =  batch_olcnt;

      for (j = 0; j < batch_olcnt; j++) {
        ol_o_id_len[j] = sizeof(int);
        ol_d_id_len[j] = sizeof(int);
        ol_w_id_len[j] = sizeof(int);
        ol_number_len[j] = sizeof(int);
        ol_i_id_len[j] = sizeof(int);
        ol_supply_w_id_len[j] = sizeof(int);
        ol_dist_info_len[j] = 24;
        ol_amount_len[j] = sizeof(int);
      }
      for (j = batch_olcnt; j < 15*ORDEARR; j++) {
        ol_o_id_len[j] = 0;
        ol_d_id_len[j] = 0;
        ol_w_id_len[j] = 0;
        ol_number_len[j] = 0;
        ol_i_id_len[j] = 0;
        ol_supply_w_id_len[j] = 0;
        ol_dist_info_len[j] = 0;
        ol_amount_len[j] = 0;
      }

      o_id_clen = ORDEARR;
      o_d_id_clen = ORDEARR;
      o_w_id_clen = ORDEARR;
      o_c_id_clen = ORDEARR;
      o_carrier_id_clen = ORDEARR;
      o_ol_cnt_clen = ORDEARR;

      ol_o_id_clen = batch_olcnt;
      ol_d_id_clen = batch_olcnt;
      ol_w_id_clen = batch_olcnt;
      ol_number_clen = batch_olcnt;
      ol_i_id_clen = batch_olcnt;
      ol_supply_w_id_clen = batch_olcnt;
      ol_dist_info_clen = batch_olcnt;
      ol_amount_clen = batch_olcnt;

      OCIERROR(errhp, OCIStmtExecute(tpcsvc, curo1, errhp, (ub4) 1,
(ub4) 0,
                     (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                     (ub4) OCI_DEFAULT | OCI_COMMIT_ON_SUCCESS ));

      if ((++loopcount) % 50) {
          fprintf (stderr, ".");
      } else {
          fprintf (stderr, " %ld orders committed\n   ", row);
      }
    }
```

```
    end_time = gettime ();
    end_cpu = getcpu ();
    fprintf (stderr, "Done.  %ld orders loaded/generated in %10.2f sec.
(%10.2f cpu)\n\n", nrows, end_time - begin_time, end_cpu - begin_cpu);
  }

/*------------------------------------------------------------------+
 | Load the NEW-ORDER table.
                |
 +------------------------------------------------------------------*/

  if (do_A || do_n) {
    nrows = ((long)eware - (long)bware + 1) * NEWOFAC * DISTFAC;

    fprintf (stderr, "Loading/generating new-order: w%d - w%d (%ld rows)\n
", bware, eware, nrows);

    begin_time = gettime ();
    begin_cpu = getcpu ();

    cid = 0;
    cdid = 1;
    cwid = bware;
    loopcount = 0;

    for (row = 0; row < nrows; ) {
      for (i = 0; i < NEWOARR; i++, row++) {
        cid++;
        if (cid > NEWOFAC) {
          cid = 1;
          cdid++;
          if (cdid > DISTFAC) {
            cdid = 1;
            cwid++;
          }
        }

        if (gen) {
          printf ("%d %d %d\n", cid + 2100, cdid, cwid);
        }
        else {
          no_o_id[i] = cid + 2100;
          no_d_id[i] = cdid;
          no_w_id[i] = cwid;
        }
      }

      if (gen) {
        fflush (stdout);
      }
      else {
        status = OCIStmtExecute(tpcsvc, curno, errhp, (ub4) NEWOARR,
(ub4) 0,
                             (CONST OCISnapshot*) 0, (OCISnapshot*) 0,
                             (ub4) OCI_DEFAULT |
OCI_COMMIT_ON_SUCCESS);
        if (status != OCI_SUCCESS) {
```

```
                        fprintf (stderr, "Aborted at w_id %d, d_id %d, o_id
%d\n", cwid, cdid, cid + 2100);
              OCIERROR(errhp, status);
              quit ();
              exit (1);
            }
          }

          if ((++loopcount) % 45)
            fprintf (stderr, ".");
          else
            fprintf (stderr, " %ld rows committed\n   ", row);
      }

      end_time = gettime ();
      end_cpu = getcpu ();
      fprintf (stderr, "Done.  %ld rows loaded/generated in %10.2f sec. (%10.2f
cpu)\n\n", nrows, end_time - begin_time, end_cpu - begin_cpu);
  }

/*--------------------------------------------------------------+
 | clean up and exit.
                 |
 +--------------------------------------------------------------*/

  if (olfp)
     fclose (olfp);
  if (!gen)
     quit ();
  exit (0);

}

void initperm ()
{
  int i;
  int pos;
  int temp;

  /* init randperm3000 */

  for (i = 0; i < 3000; i++)
     randperm3000[i] = i + 1;
  for (i = 3000; i > 0; i--) {
     pos = lrand48 () % i;
     temp = randperm3000[i - 1];
     randperm3000[i - 1] = randperm3000[pos];
     randperm3000[pos] = temp;
  }
}

void randstr (str, x, y)
char *str;
int x;
int y;
{
  int i, j;
  int len;

  len = (lrand48 () % (y - x + 1)) + x;
  for (i = 0; i < len; i++) {
     j = lrand48 () % 62;
     if (j < 26)
        str[i] = (char) (j + 'a');
     else if (j < 52)
        str[i] = (char) (j - 26 + 'A');
     else
        str[i] = (char) (j - 52 + '0');
  }
  str[len] = '\0';

}

void randdatastr (str, x, y)
char *str;
int x;
int y;
{
  int i, j;
  int len;
  int pos;

  len = (lrand48 () % (y - x + 1)) + x;
  for (i = 0; i < len; i++) {
     j = lrand48 () % 62;
     if (j < 26)
        str[i] = (char) (j + 'a');
     else if (j < 52)
        str[i] = (char) (j - 26 + 'A');
     else
        str[i] = (char) (j - 52 + '0');
  }
  str[len] = '\0';
  if ((lrand48 () % 10) == 0) {
     pos = (lrand48 () % (len - 8));
     str[pos] = 'O';
     str[pos + 1] = 'R';
     str[pos + 2] = 'I';
     str[pos + 3] = 'G';
     str[pos + 4] = 'I';
     str[pos + 5] = 'N';
     str[pos + 6] = 'A';
     str[pos + 7] = 'L';
  }
}

void randnum (str, len)
char *str;
int len;
{
  int i;

  for (i = 0; i < len; i++)
     str[i] = (char) (lrand48 () % 10 + '0');
  str[len] = '\0';

}

void randlastname (str, id)
char *str;
int id;
{
  id = id % 1000;
  strcpy (str, lastname[id / 100]);
  strcat (str, lastname[(id / 10) % 10]);
  strcat (str, lastname[id % 10]);
}

int NURand (A, x, y, cnum)
int A, x, y, cnum;
{
  int a, b;

  a = lrand48 () % (A + 1);
  b = (lrand48 () % (y - x + 1)) + x;
  return ((((a | b) + cnum) % (y - x + 1)) + x);

}

void sysdate (sdate)
char *sdate;
{
  time_t tp;
  struct tm *tmptr;

  time (&tp);
  tmptr = localtime (&tp);
  strftime (sdate, 29, "%d-%b-%Y", tmptr);
}

int ocierror(fname, lineno, errhp, status)
char *fname;
int lineno;
OCIError *errhp;
sword status;
{
 text errbuf[512];
 sb4 errcode;
 sb4 lstat;
 ub4 recno=2;

 switch (status) {
 case OCI_SUCCESS:
   break;
 case OCI_SUCCESS_WITH_INFO:
   fprintf(stderr,"Module %s Line %d\n", fname, lineno);
   fprintf(stderr,"Error - OCI_SUCCESS_WITH_INFO\n");
   lstat = OCIErrorGet (errhp, recno++, (text *) NULL, &errcode, errbuf,
                       (ub4) sizeof(errbuf), OCI_HTYPE_ERROR);
   fprintf(stderr,"Error - %s\n", errbuf);
   break;
 case OCI_NEED_DATA:
   fprintf(stderr,"Module %s Line %d\n", fname, lineno);
   fprintf(stderr,"Error - OCI_NEED_DATA\n");
```

```
    return (IRRECERR);
  case OCI_NO_DATA:
    fprintf(stderr,"Module %s Line %d\n", fname, lineno);
    fprintf(stderr,"Error - OCI_NO_DATA\n");
    return (IRRECERR);
  case OCI_ERROR:
    lstat = OCIErrorGet (errhp, (ub4) 1,
                                   (text *) NULL, &errcode, errbuf,
                                           (ub4) sizeof(errbuf),
OCI_HTYPE_ERROR);
    if (errcode == NOT_SERIALIZABLE) return (errcode);
    if (errcode == SNAPSHOT_TOO_OLD) return (errcode);
    while (lstat != OCI_NO_DATA)
    {
      fprintf(stderr,"Module %s Line %d\n", fname, lineno);
      fprintf(stderr,"Error - %s\n", errbuf);
      lstat = OCIErrorGet (errhp, recno++, (text *) NULL, &errcode, errbuf,
                    (ub4) sizeof(errbuf), OCI_HTYPE_ERROR);
    }
    return (errcode);
  case OCI_INVALID_HANDLE:
    fprintf(stderr,"Module %s Line %d\n", fname, lineno);
    fprintf(stderr,"Error - OCI_INVALID_HANDLE\n");
    exit(-1);
  case OCI_STILL_EXECUTING:
    fprintf(stderr,"Module %s Line %d\n", fname, lineno);
    fprintf(stderr,"Error - OCI_STILL_EXECUTE\n");
    return (IRRECERR);
  case OCI_CONTINUE:
    fprintf(stderr,"Module %s Line %d\n", fname, lineno);
    fprintf(stderr,"Error - OCI_CONTINUE\n");
    return (IRRECERR);
  default:
    fprintf(stderr,"Module %s Line %d\n", fname, lineno);
    fprintf(stderr,"Status - %s\n", status);
    return (IRRECERR);
  }
  return (RECOVERR);
}
```

tpcc.h

```
/
*=====================================================
============+
 |        Copyright (c) 1995  Oracle Corp, Redwood Shores, CA      |
 |                  OPEN SYSTEMS PERFORMANCE GROUP                 |
 |                       All Rights Reserved                       |
 +=====================================================
=============+
 | FILENAME
 |    tpcc.h
 | DESCRIPTION
 |    Include file for TPC-C benchmark programs.
 +=====================================================
=============*/

#ifndef TPCC_H
#define TPCC_H

#ifndef FALSE
# define FALSE 0
#endif

#ifndef TRUE
# define TRUE 1
#endif

#include <stdio.h>
#include <stdlib.h>
#include <ctype.h>
#include <string.h>

#ifndef boolean
#define boolean int
#endif

#include "tpccflags.h"

#include <oratypes.h>
#include <oci.h>
#include <ocidfn.h>
/*
#ifdef __STDC__
#include "ociapr.h"
#else
#include "ocikpr.h"
#endif
*/

typedef struct cda_def csrdef;
typedef struct cda_def ldadef;


/* TPC-C transaction functions */

extern int TPCinit ();
extern int TPCnew ();
extern int TPCpay ();
extern int TPCord ();
extern int TPCdel ();
extern int TPCsto ();
extern void TPCexit ();
extern int TPCdumpinit ();
extern void TPCdumpnew ();
extern void TPCdumppay ();
extern void TPCdumpord ();
extern void TPCdumpdel ();
extern void TPCdumpsto ();
extern void TPCdumpexit ();
extern void userlog(char* fmtp, ...);


/* Error codes */

#define RECOVERR -10
#define IRRECERR -20
#define NOERR    111
#define DEL_ERROR -666
#define DEL_DATE_LEN 7
#define NDISTS 10
#define NITEMS 15
#define SQL_BUF_SIZE 8192

#define FULLDATE "dd-mon-yy.hh24:mi:ss"
#define SHORTDATE "dd-mm-yyyy"



#define DELRT 80.0

extern int tkvcninit ();
extern int tkvcpinit ();
extern int tkvcoinit ();
extern int tkvcdinit ();
extern int tkvcsinit ();

extern int tkvcn ();
extern int tkvcp ();
extern int tkvco ();
extern int tkvcd ();
extern int tkvcs ();

extern void tkvcndone ();
extern void tkvcpdone ();
extern void tkvcodone ();
extern void tkvcddone ();
extern void tkvcsdone ();

extern int tkvcss (); /* for alter session to get memory size and trace */
extern boolean multitranx;
extern int ord_init;


extern void errrpt ();
extern int ocierror(char *fname, int lineno,OCIError *errhp, sword status);
extern int sqlfile(char *fname, text *linebuf);

extern FILE *lfp;
extern FILE *fopen ();
extern int proc_no;
extern int doid[];

extern int execstatus;
extern int errcode;

extern OCIEnv *tpcenv;
extern OCIServer *tpcsrv;
extern OCIError *errhp;
extern OCISvcCtx *tpcsvc;
extern OCISession *tpcusr;
extern OCIStmt *curntest;
/* The bind and define handles for each transaction are
   included in their respective header files. */
```

```
/* for stock-level transaction */

extern int w_id;
extern int d_id;
extern int c_id;
#ifdef USE_IEEE_NUMBER
extern float threshold;
#else
extern int threshold;
#endif /* USE_IEEE_NUMBER */
extern int low_stock;

/* for delivery transaction */

extern int del_o_id[10];
extern int carrier_id;
extern int retries;

/* for order-status transaction */

extern int bylastname;
extern char c_last[17];
extern char c_first[17];
extern char c_middle[3];
extern double c_balance;
extern int o_id;
extern text o_entry_d[20];
extern int o_carrier_id;
extern int o_ol_cnt;
extern int ol_supply_w_id[15];
extern int ol_i_id[15];
#ifdef USE_IEEE_NUMBER
extern float ol_quantity[15];
extern float ol_amount[15];
#else
extern int ol_quantity[15];
extern int ol_amount[15];
#endif /* USE_IEEE_NUMBER */
ub4    ol_del_len[15];
extern text ol_delivery_d[15][11];
/* xnie - begin */
extern OCIRowid *o_rowid;
/* xnie - end */

/* for payment transaction */

extern int c_w_id;
extern int c_d_id;
#ifdef USE_IEEE_NUMBER
extern float h_amount;
#else
extern int h_amount;
#endif /* USE_IEEE_NUMBER */
extern char w_street_1[21];
extern char w_street_2[21];
extern char w_city[21];
extern char w_state[3];
extern char w_zip[10];
extern char d_street_1[21];
extern char d_street_2[21];
extern char d_city[21];
extern char d_state[3];
extern char d_zip[10];
extern char c_street_1[21];
extern char c_street_2[21];
extern char c_city[21];
extern char c_state[3];
extern char c_zip[10];
extern char c_phone[17];
extern text c_since_d[11];
extern char c_credit[3];
extern int c_credit_lim;
extern float c_discount;
extern char c_data[201];
extern text h_date[20];

/* for new order transaction */

extern int nol_i_id[15];
extern int nol_supply_w_id[15];
#ifdef USE_IEEE_NUMBER
extern float nol_quantity[15];
extern float nol_amount[15];
extern float s_quantity[15];
extern float i_price[15];
#else
extern int nol_quantity[15];
extern int nol_amount[15];
extern int s_quantity[15];
extern int i_price[15];
#endif /* USE_IEEE_NUMBER */
extern int nol_quanti10[15];
extern int nol_quanti91[15];
extern int nol_ytdqty[15];
extern int o_all_local;
extern float w_tax;
extern float d_tax;
extern float total_amount;
extern char i_name[15][25];
extern int i_name_strlen[15];
extern ub2 i_name_strlen_len[15];
extern ub2 i_name_strlen_rcode[15];
extern ub4 i_name_strlen_csize;
extern char brand_gen[15];
extern ub2 brand_gen_len[15];
extern ub2 brand_gen_rcode[15];
extern ub4 brand_gen_csize;
extern char brand_generic[15][1];
extern int status;
extern int tracelevel;

/* Miscellaneous */
extern OCIDate cr_date;
extern OCIDate c_since;
extern OCIDate o_entry_d_base;
extern OCIDate ol_d_base[15];

#ifndef DISCARD
# define DISCARD (void)
#endif

#ifndef sword
# define sword int
#endif

#define VER7           2

#define NA             -1      /* ANSI SQL NULL */
#define NLT            1       /* length for string null terminator */
#define DEADLOCK       60      /* ORA-00060: deadlock */
#define NO_DATA_FOUND  1403    /* ORA-01403: no data found */
#define NOT_SERIALIZABLE  8177  /* ORA-08177: transaction not
serializable */
#define SNAPSHOT_TOO_OLD  1555  /* ORA-01555: snapshot too old */

#ifndef NULLP
# define NULLP(x)  (x  *)NULL
#endif /* NULLP */

#define ADR(object) ((ub1 *)&(object))
#define SIZ(object) ((sword)sizeof(object))

typedef char date[24+NLT];
typedef char varchar2;

#define min(x,y)  (((x) < (y)) ? (x) : (y))

#define OCIERROR(errp,function)\
       ocierror(__FILE__,__LINE__,(errp),(function));

#define OCIBND(stmp, bndp, errp, sqlvar, progv, progvl, ftype)\
      ocierror(__FILE__,__LINE__,(errp), \
          OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      ocierror(__FILE__,__LINE__, (errp), \
          OCIBindByName((stmp), &(bndp), (errp), \
                              (text *)(sqlvar), strlen((sqlvar)),\
                              (progv), (progvl),
(ftype),0,0,0,0,0,OCI_DEFAULT));



/* bind arrays for sql */
#define
OCIBNDRA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
       OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
        OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
                                                        (progv),(progvl),(ftype),
```

```
(indp),(alen),(arcode),0,0,OCI_DEFAULT));


/* use with callback data */
#define OCIBNDRAD(stmp,bndp,errp,sqlvar,progvl,ftype,indp,ctxp,\
                cbf_nodata,cbf_data) \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
       OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
          OCIBindByName((stmp),&(bndp),(errp),(text *)(sqlvar), \
                      strlen((sqlvar)),0,(progvl),(ftype), \
                      indp,0,0,0,0,OCI_DATA_AT_EXEC)); \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
        OCIBindDynamic((bndp),(errp),(ctxp),(cbf_nodata),(ctxp),
(cbf_data)));



/* bind in/out for plsql without indicator and rcode */
#define OCIBNDPL(stmp,bndp,errp,sqlvar,progv,progvl,ftype,alen) \
   DISCARD ocierror(__FILE__,__LINE__,(errp), \
     OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
   DISCARD ocierror(__FILE__,__LINE__,(errp), \
     OCIBindByName((stmp),&(bndp),(errp),(CONST text *)(sqlvar), \
       (sb4)strlen((CONST char *)(sqlvar)), (dvoid*)(progv),(progvl),(ftype),\
           NULLP(dvoid),(alen), NULLP(ub2),
0,NULLP(ub4),OCI_DEFAULT));

/* bind  in values for plsql with indicator and rcode */
#define
OCIBNDR(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode) \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
       OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0)); \
      DISCARD ocierror(__FILE__,__LINE__,(errp), \
       OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
                              (progv),(progvl),(ftype),(indp),(alen),(arcode),0,0, \
                 OCI_DEFAULT));

/* bind in/out for plsql arrays witout indicator and rcode */
#define OCIBNDPLA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,alen,ms,cu) \
      DISCARD ocierror(__FILE__,__LINE__, (errp), \
        OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0));\
      DISCARD ocierror(__FILE__,__LINE__,(errp),\
        OCIBindByName((stmp),&(bndp),(errp),(CONST text *)(sqlvar), \
            (sb4)strlen((CONST char *) (sqlvar)),(void *)(progv), \
            (progvl),(ftype),NULL,(alen),NULL,(ms),(cu),OCI_DEFAULT));

/* bind in/out values for plsql with indicator and rcode */
#define
OCIBNDRAA(stmp,bndp,errp,sqlvar,progv,progvl,ftype,indp,alen,arcode,\
                ms,cu) \
      ocierror(__FILE__,__LINE__, (errp), \
        OCIHandleAlloc((stmp),(dvoid**)&(bndp),OCI_HTYPE_BIND,0,
(dvoid**)0));\
      ocierror(__FILE__,__LINE__,(errp),\
        OCIBindByName((stmp),&(bndp),(errp),(text *)
(sqlvar),strlen((sqlvar)),\
      (progv),(progvl),(ftype),(indp),(alen),(arcode),(ms),
(cu),OCI_DEFAULT));

#define OCIDEFINE(stmp,dfnp,errp,pos,progv,progvl,ftype)\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),(ftype),\
                              0,0,0,OCI_DEFAULT);



#define OCIDEF(stmp,dfnp,errp,pos,progv,progvl,ftype) \
      OCIHandleAlloc((stmp),(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                                              (dvoid**)0);\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),(progvl),\
                      (ftype),NULL,NULL,NULL,OCI_DEFAULT); \



#define OCIDFNRA(stmp,dfnp,errp,pos,progv,progvl,ftype,indp,alen,arcode)
\
      OCIHandleAlloc((stmp),(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                                              (dvoid**)0);\
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv),\
                                              (progvl),(ftype),(indp),
(alen),\
                                              (arcode),OCI_DEFAULT);

#define
OCIDFNDYN(stmp,dfnp,errp,pos,progv,progvl,ftype,indp,ctxp,cbf_data) \
      ocierror(__FILE__,__LINE__,(errp), \
      OCIHandleAlloc((stmp),(dvoid**)&(dfnp),OCI_HTYPE_DEFINE,0,\
                                              (dvoid**)0));\
      ocierror(__FILE__,__LINE__,(errp), \
      OCIDefineByPos((stmp),&(dfnp),(errp),(pos),(progv), (progvl),(ftype),\
                              (indp),NULL,NULL, OCI_DYNAMIC_FETCH));\
      ocierror(__FILE__,__LINE__,(errp), \
      OCIDefineDynamic((dfnp),(errp),(ctxp),(cbf_data)));




/* New order */

struct newinstruct {
   int w_id;
   int d_id;
   int c_id;
   int ol_i_id[15];
   int ol_supply_w_id[15];
   int ol_quantity[15];
};

struct newoutstruct {
   int terror;
   int o_id;
   int o_ol_cnt;
   char c_last[17];
   char c_credit[3];
   float c_discount;
   float w_tax;
   float d_tax;
   char o_entry_d[20];
   float total_amount;
   char i_name[15][25];
   int s_quantity[15];
   char brand_generic[15];
   float i_price[15];
   float ol_amount[15];
   char status[26];
   int retry;
};

struct newstruct {
   struct newinstruct newin;
   struct newoutstruct newout;
};


/* Payment */

struct payinstruct {
   int w_id;
   int d_id;
   int c_w_id;
   int c_d_id;
   int c_id;
   int bylastname;
   int h_amount;
   char c_last[17];
};

struct payoutstruct {
   int terror;
   char w_street_1[21];
   char w_street_2[21];
   char w_city[21];
   char w_state[3];
   char w_zip[10];
   char d_street_1[21];
   char d_street_2[21];
   char d_city[21];
   char d_state[3];
   char d_zip[10];
   int  c_id;
   char c_first[17];
   char c_middle[3];
   char c_last[17];
   char c_street_1[21];
   char c_street_2[21];
   char c_city[21];
   char c_state[3];
   char c_zip[10];
   char c_phone[17];
   char c_since[11];
   char c_credit[3];
```

```
  double c_credit_lim;
  float  c_discount;
  double c_balance;
  char c_data[201];
  char h_date[20];
  int retry;
};

struct paystruct {
  struct payinstruct payin;
  struct payoutstruct payout;
};


/* Order status */

struct ordinstruct {
  int w_id;
  int d_id;
  int c_id;
  int bylastname;
  char c_last[17];
};

struct ordoutstruct {
  int terror;
  int c_id;
  char c_last[17];
  char c_first[17];
  char c_middle[3];
  double c_balance;
  int o_id;
  char o_entry_d[20];
  int o_carrier_id;
  int o_ol_cnt;
  int ol_supply_w_id[15];
  int ol_i_id[15];
  int ol_quantity[15];
  float ol_amount[15];
  char ol_delivery_d[15][11];
  int retry;
};

struct ordstruct {
  struct ordinstruct ordin;
  struct ordoutstruct ordout;
};


/* Delivery */

struct delinstruct {
  int w_id;
  int o_carrier_id;
  double qtime;
  int in_timing_int;
  int plsqlflag;
};

struct deloutstruct {
  int terror;
  int retry;
};

struct delstruct {
  struct delinstruct delin;
  struct deloutstruct delout;
};


/* Stock level */

struct stoinstruct {
  int w_id;
  int d_id;
  int threshold;
};

struct stooutstruct {
  int terror;
  int low_stock;
  int retry;
};

struct stostruct {
  struct stoinstruct stoin;
  struct stooutstruct stoout;
};

#endif
```

Tuxedo Files

Initnew.sql

load_ordordl.sql

```
-- anonymous block for loading order/orderline

DECLARE
  order_idx      PLS_INTEGER;
  order_rows     PLS_INTEGER;
  ordl_rows      PLS_INTEGER;
  ordl_idx       PLS_INTEGER;
  ordl_idx_hi    PLS_INTEGER;
  local_idx      PLS_INTEGER;
BEGIN
  order_rows := :order_rows;
  ordl_rows  := :ordl_rows;
  order_idx  := 1;
  ordl_idx   := 1;

  WHILE (order_idx <= order_rows) LOOP

    INSERT INTO ordr (O_ID, O_D_ID, O_W_ID, O_C_ID, O_ENTRY_D,
                  O_CARRIER_ID, O_OL_CNT, O_ALL_LOCAL)
         VALUES (:o_id(order_idx), :o_d_id(order_idx), :o_w_id(order_idx),
                 :o_c_id(order_idx), SYSDATE, :o_carrier_id(order_idx),
                 :o_ol_cnt(order_idx), 1);

    ordl_idx_hi := ordl_idx + :o_ol_cnt(order_idx) - 1;

    IF ( :o_id(order_idx) < 2101 ) THEN
       FORALL local_idx IN ordl_idx .. ordl_idx_hi
          INSERT INTO ordl (OL_O_ID, OL_D_ID, OL_W_ID,
OL_NUMBER,
                    OL_DELIVERY_D, OL_I_ID, OL_SUPPLY_W_ID,
OL_QUANTITY,
                    OL_AMOUNT, OL_DIST_INFO)
               VALUES (:ol_o_id(local_idx), :ol_d_id(local_idx),
                       :ol_w_id(local_idx), :ol_number(local_idx),
                       SYSDATE, :ol_i_id(local_idx),
                       :ol_supply_w_id(local_idx), 5, 0, :ol_dist_info(local_idx));
    ELSE
       FORALL local_idx IN ordl_idx .. ordl_idx_hi
          INSERT INTO ordl (OL_O_ID, OL_D_ID, OL_W_ID,
OL_NUMBER,
                    OL_DELIVERY_D, OL_I_ID, OL_SUPPLY_W_ID,
OL_QUANTITY,
                    OL_AMOUNT, OL_DIST_INFO)
               VALUES (:ol_o_id(local_idx), :ol_d_id(local_idx),
                       :ol_w_id(local_idx), :ol_number(local_idx),
                       to_date('01-Jan-1811'), :ol_i_id(local_idx),
                       :ol_supply_w_id(local_idx), 5,
                       :ol_amount(local_idx), :ol_dist_info(local_idx));
    END IF;
    ordl_idx := ordl_idx_hi + 1;
    order_idx := order_idx + 1;
  END LOOP;
END;
```

payz.sql

```
DECLARE /* payz */
    not_serializable         EXCEPTION;
    PRAGMA EXCEPTION_INIT(not_serializable,-8177);
    deadlock                 EXCEPTION;
    PRAGMA EXCEPTION_INIT(deadlock,-60);
    snapshot_too_old         EXCEPTION;
    PRAGMA EXCEPTION_INIT(snapshot_too_old,-1555);
  BEGIN
    LOOP BEGIN
      UPDATE ware
        SET w_ytd = w_ytd+:h_amount
        WHERE w_id = :w_id
        RETURNING w_name,
             w_street_1, w_street_2, w_city, w_state, w_zip
         INTO inittpcc.ware_name,
             :w_street_1, :w_street_2, :w_city, :w_state, :w_zip;


      SELECT rowid
      BULK COLLECT INTO inittpcc.row_id
      FROM cust
```

```
      WHERE c_d_id = :c_d_id AND c_w_id = :c_w_id AND c_last =
:c_last
      ORDER BY c_last, c_d_id, c_w_id, c_first;

     inittpcc.c_num := sql%rowcount;
     inittpcc.cust_rowid := inittpcc.row_id((inittpcc.c_num) / 2);

     UPDATE cust
      SET c_balance = c_balance - :h_amount,
        c_ytd_payment = c_ytd_payment+ :h_amount,
        c_payment_cnt = c_payment_cnt+1
     WHERE rowid = inittpcc.cust_rowid
     RETURNING
          c_id, c_first, c_middle, c_last, 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
       INTO :c_id, :c_first, :c_middle, :c_last,
           :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;

      :c_data := ' ';
     IF :c_credit = 'BC' THEN
       UPDATE cust
        SET c_data = substr ((to_char (:c_id) || ' ' ||
                        to_char (:c_d_id) || ' ' ||
                        to_char (:c_w_id) || ' ' ||
                        to_char (:d_id) || ' ' ||
                        to_char (:w_id) || ' ' ||
                        to_char (:h_amount/100, '9999.99') || ' ')
                        || c_data, 1, 500)
        WHERE rowid = inittpcc.cust_rowid
        RETURNING substr(c_data,1, 200)
        INTO :c_data;

      END IF;

      UPDATE dist
        SET d_ytd = d_ytd+:h_amount
        WHERE d_id = :d_id
          AND d_w_id = :w_id
        RETURNING  d_name, d_street_1, d_street_2, d_city,
                d_state, d_zip
        INTO inittpcc.dist_name, :d_street_1, :d_street_2, :d_city,
            :d_state, :d_zip;

        IF  SQL%NOTFOUND
             THEN
                        raise NO_DATA_FOUND;
        END IF;

      INSERT INTO hist (h_c_id, h_c_d_id, h_c_w_id, h_d_id, h_w_id,
                    h_amount, h_date, h_data)
         VALUES (:c_id, :c_d_id, :c_w_id, :d_id, :w_id, :h_amount,
         :cr_date, inittpcc.ware_name || '    ' || inittpcc.dist_name);

      EXIT;

      EXCEPTION
        WHEN not_serializable OR deadlock OR snapshot_too_old THEN
          ROLLBACK;
          :retry := :retry + 1;
      END;

    END LOOP;
  END;
```

paynz.sql

```
DECLARE /* paynz */
    not_serializable         EXCEPTION;
    PRAGMA EXCEPTION_INIT(not_serializable,-8177);
    deadlock                 EXCEPTION;
    PRAGMA EXCEPTION_INIT(deadlock,-60);
    snapshot_too_old         EXCEPTION;
    PRAGMA EXCEPTION_INIT(snapshot_too_old,-1555);
  BEGIN
    LOOP BEGIN
        UPDATE ware
          SET w_ytd = w_ytd + :h_amount
         WHERE w_id = :w_id
      RETURNING w_name, w_street_1, w_street_2, w_city, w_state, w_zip
         INTO inittpcc.ware_name, :w_street_1, :w_street_2, :w_city,
             :w_state, :w_zip;

       UPDATE  cust
         SET  c_balance = c_balance - :h_amount,
             c_ytd_payment = c_ytd_payment + :h_amount,
             c_payment_cnt = c_payment_cnt+1
       WHERE    c_id = :c_id AND c_d_id = :c_d_id AND
             c_w_id = :c_w_id
      RETURNING rowid, c_first, c_middle, c_last, 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
         INTO inittpcc.cust_rowid,:c_first, :c_middle, :c_last, :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;
        IF SQL%NOTFOUND THEN
          raise NO_DATA_FOUND;
        END IF;


      IF :c_credit = 'BC' THEN
        UPDATE cust
                SET c_data = substr ((to_char (:c_id) || ' ' ||
                      to_char (:c_d_id) || ' ' ||
                      to_char (:c_w_id) || ' ' ||
                      to_char (:d_id) || ' ' ||
                      to_char (:w_id) || ' ' ||
                      to_char (:h_amount/100, '9999.99') || ' ')
                      || c_data, 1, 500)
         WHERE rowid = inittpcc.cust_rowid
      RETURNING substr(c_data,1, 200)
         INTO :c_data;
      END IF;

        UPDATE dist
          SET d_ytd = d_ytd + :h_amount
         WHERE d_id = :d_id
          AND d_w_id = :w_id
      RETURNING d_name, d_street_1, d_street_2, d_city,d_state, d_zip
          INTO inittpcc.dist_name,:d_street_1,:d_street_2,:d_city,:d_state,
              :d_zip;
       IF SQL%NOTFOUND THEN
         raise NO_DATA_FOUND;
       END IF;


      INSERT INTO hist  (h_c_id, h_c_d_id, h_c_w_id, h_d_id, h_w_id,
                   h_amount, h_date, h_data)
      VALUES
        (:c_id, :c_d_id, :c_w_id, :d_id, :w_id, :h_amount,
         :cr_date, inittpcc.ware_name || '    ' || inittpcc.dist_name);
      EXIT;

      EXCEPTION
        WHEN not_serializable OR deadlock OR snapshot_too_old THEN
          ROLLBACK;
          :retry := :retry + 1;
      END;

    END LOOP;
  END;
```

tkvcinin.sql

```
-- The initnew package for storing variables used in the
-- New Order anonymous block

CREATE OR REPLACE PACKAGE inittpcc
AS
 TYPE intarray IS TABLE OF INTEGER INDEX BY BINARY_INTEGER;
 TYPE distarray IS TABLE OF VARCHAR(24) INDEX BY
BINARY_INTEGER;
 nulldate       DATE;
 TYPE rowidarray IS TABLE OF ROWID INDEX BY PLS_INTEGER;
 s_dist                                 distarray;
 idx1arr                    intarray;
 s_remote                   intarray;
 dist                 intarray;
 row_id               rowidarray;
 cust_rowid             rowid;
 dist_name              VARCHAR2(11);
 ware_name               VARCHAR2(11);
 c_num                 PLS_INTEGER;

 PROCEDURE init_no(idxarr intarray);
 PROCEDURE init_del;
 PROCEDURE init_pay;
END inittpcc;
/
show errors;
```

```
CREATE OR REPLACE PACKAGE BODY inittpcc AS
  PROCEDURE init_no (idxarr  intarray)
  IS
  BEGIN
       -- initialize null date
   nulldate := TO_DATE('01-01-1811', 'MM-DD-YYYY');
    idx1arr := idxarr;
  END init_no;

  PROCEDURE init_del
  IS
  BEGIN
    FOR i IN 1 .. 10 LOOP
      dist(i) := i;
    END LOOP;
  END init_del;

  PROCEDURE init_pay IS
  BEGIN
    NULL;
  END init_pay;

END inittpcc;
/
show errors
exit
```

tkvcpdel.sql

```
declare
  TYPE numarray IS TABLE OF NUMBER INDEX BY
BINARY_INTEGER;
  TYPE numlist is varray (10) of number;
  dist numarray;
  amt numarray ;
  cnt pls_integer;

  not_serializable EXCEPTION;
  PRAGMA EXCEPTION_INIT(not_serializable, -8177);
  deadlock          EXCEPTION;
  PRAGMA EXCEPTION_INIT(deadlock, -60);
  snapshot_too_old EXCEPTION;
  PRAGMA EXCEPTION_INIT(snapshot_too_old, -1555);

BEGIN
  LOOP BEGIN
    FORALL d IN 1..10
      DELETE FROM nord N
        WHERE no_d_id = inittpcc.dist(d)
          AND no_w_id = :w_id
          AND no_o_id = (select min (no_o_id)
                        from nord
                        where no_d_id = N.no_d_id
                              and no_w_id = N.no_w_id)
        RETURNING no_d_id, no_o_id BULK COLLECT INTO :d_id,
:order_id;

    :ordcnt := SQL%ROWCOUNT;

    FORALL o in 1.. :ordcnt
      UPDATE ordr SET o_carrier_id = :carrier_id
      WHERE o_id = :order_id (o)
        AND o_d_id = :d_id(o)
        AND o_w_id = :w_id
      RETURNING o_c_id BULK COLLECT INTO :o_c_id;

    FORALL o in 1.. :ordcnt
      UPDATE ordl SET ol_delivery_d = :now
      WHERE ol_w_id = :w_id
        AND ol_d_id = :d_id(o)
        AND ol_o_id = :order_id(o)
      RETURNING sum(ol_amount) BULK COLLECT INTO  :sums;

    FORALL c IN 1.. :ordcnt
      UPDATE cust
         SET c_balance = c_balance + :sums(c),
                 c_delivery_cnt = c_delivery_cnt + 1
       WHERE c_w_id = :w_id
         AND c_d_id = :d_id(c)
         AND c_id = :o_c_id(c);
    COMMIT;
    EXIT;
    EXCEPTION
      WHEN not_serializable OR deadlock OR snapshot_too_old
      THEN
        ROLLBACK;
        :retry := :retry + 1;
    END;

  END LOOP; -- for retry
END;
```

tkvcpnew.sql

```
-- New Order Anonymous block

  DECLARE
     idx                   PLS_INTEGER;
     dummy_local           PLS_INTEGER;
     cache_ol_cnt          PLS_INTEGER;
     not_serializable      EXCEPTION;
     PRAGMA EXCEPTION_INIT(not_serializable,-8177);
     deadlock              EXCEPTION;
     PRAGMA EXCEPTION_INIT(deadlock,-60);
     snapshot_too_old      EXCEPTION;
     PRAGMA EXCEPTION_INIT(snapshot_too_old,-1555);

   PROCEDURE u1 IS
   BEGIN
      FORALL idx IN 1 .. cache_ol_cnt
        UPDATE  stock_item
        SET s_order_cnt = s_order_cnt + 1,
        s_ytd = s_ytd + :ol_quantity(idx),
        s_remote_cnt = s_remote_cnt + :s_remote(idx),
        s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                        THEN s_quantity +91
                        ELSE s_quantity
                   END) - :ol_quantity(idx)
        WHERE i_id = :ol_i_id(idx)
        AND s_w_id = :ol_supply_w_id(idx)
        RETURNING i_price, i_name, s_quantity, s_dist_01,
              i_price*:ol_quantity(idx),
         CASE WHEN i_data NOT LIKE '%ORIGINAL%'
              THEN 'G'
              ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
                   THEN 'G'
                   ELSE 'B'
                   END)
         END
      BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
                  :ol_amount,:brand_generic;
END u1;

PROCEDURE u2 IS
BEGIN
     FORALL idx IN 1 .. cache_ol_cnt
        UPDATE  stock_item
        SET s_order_cnt = s_order_cnt + 1,
        s_ytd = s_ytd + :ol_quantity(idx),
        s_remote_cnt = s_remote_cnt + :s_remote(idx),
        s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                        THEN s_quantity +91
                        ELSE s_quantity
                   END) - :ol_quantity(idx)
        WHERE i_id = :ol_i_id(idx)
        AND s_w_id = :ol_supply_w_id(idx)
        RETURNING i_price, i_name, s_quantity, s_dist_02,
              i_price*:ol_quantity(idx),
         CASE WHEN i_data NOT LIKE '%ORIGINAL%'
              THEN 'G'
              ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
                   THEN 'G'
                   ELSE 'B'
                   END)
         END
      BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
                  :ol_amount,:brand_generic;
END u2;

PROCEDURE u3 IS
BEGIN
     FORALL idx IN 1 .. cache_ol_cnt
        UPDATE  stock_item
        SET s_order_cnt = s_order_cnt + 1,
        s_ytd = s_ytd + :ol_quantity(idx),
        s_remote_cnt = s_remote_cnt + :s_remote(idx),
        s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                        THEN s_quantity +91
                        ELSE s_quantity
                   END) - :ol_quantity(idx)
        WHERE i_id = :ol_i_id(idx)
        AND s_w_id = :ol_supply_w_id(idx)
        RETURNING i_price, i_name, s_quantity, s_dist_03,
              i_price*:ol_quantity(idx),
```

```
      CASE WHEN i_data NOT LIKE '%ORIGINAL%'
          THEN 'G'
          ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
               THEN 'G'
               ELSE 'B'
               END)
      END
    BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
                :ol_amount,:brand_generic;
END u3;

PROCEDURE u4 IS
BEGIN
    FORALL idx IN 1 .. cache_ol_cnt
     UPDATE  stock_item
     SET s_order_cnt = s_order_cnt + 1,
     s_ytd = s_ytd + :ol_quantity(idx),
     s_remote_cnt = s_remote_cnt + :s_remote(idx),
     s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                   THEN s_quantity +91
                   ELSE s_quantity
               END) - :ol_quantity(idx)
     WHERE i_id = :ol_i_id(idx)
     AND s_w_id = :ol_supply_w_id(idx)
     RETURNING i_price, i_name, s_quantity, s_dist_04,
            i_price*:ol_quantity(idx),
      CASE WHEN i_data NOT LIKE '%ORIGINAL%'
          THEN 'G'
          ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
               THEN 'G'
               ELSE 'B'
               END)
      END
    BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
                :ol_amount,:brand_generic;
END u4;

PROCEDURE u5 IS
BEGIN
    FORALL idx IN 1 .. cache_ol_cnt
     UPDATE  stock_item
     SET s_order_cnt = s_order_cnt + 1,
     s_ytd = s_ytd + :ol_quantity(idx),
     s_remote_cnt = s_remote_cnt + :s_remote(idx),
     s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                   THEN s_quantity +91
                   ELSE s_quantity
               END) - :ol_quantity(idx)
     WHERE i_id = :ol_i_id(idx)
     AND s_w_id = :ol_supply_w_id(idx)
     RETURNING i_price, i_name, s_quantity, s_dist_05,
            i_price*:ol_quantity(idx),
      CASE WHEN i_data NOT LIKE '%ORIGINAL%'
          THEN 'G'
          ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
               THEN 'G'
               ELSE 'B'
               END)
      END
    BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
                :ol_amount,:brand_generic;
END u5;

PROCEDURE u6 IS
BEGIN
    FORALL idx IN 1 .. cache_ol_cnt
     UPDATE  stock_item
     SET s_order_cnt = s_order_cnt + 1,
     s_ytd = s_ytd + :ol_quantity(idx),
     s_remote_cnt = s_remote_cnt + :s_remote(idx),
     s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                   THEN s_quantity +91
                   ELSE s_quantity
               END) - :ol_quantity(idx)
     WHERE i_id = :ol_i_id(idx)
     AND s_w_id = :ol_supply_w_id(idx)
     RETURNING i_price, i_name, s_quantity, s_dist_06,
            i_price*:ol_quantity(idx),
      CASE WHEN i_data NOT LIKE '%ORIGINAL%'
          THEN 'G'
          ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
               THEN 'G'
               ELSE 'B'
               END)
      END
    BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
                :ol_amount,:brand_generic;
END u6;

PROCEDURE u7 IS
BEGIN
    FORALL idx IN 1 .. cache_ol_cnt
     UPDATE  stock_item
     SET s_order_cnt = s_order_cnt + 1,
     s_ytd = s_ytd + :ol_quantity(idx),
     s_remote_cnt = s_remote_cnt + :s_remote(idx),
     s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                   THEN s_quantity +91
                   ELSE s_quantity
               END) - :ol_quantity(idx)
     WHERE i_id = :ol_i_id(idx)
     AND s_w_id = :ol_supply_w_id(idx)
     RETURNING i_price, i_name, s_quantity, s_dist_07,
            i_price*:ol_quantity(idx),
      CASE WHEN i_data NOT LIKE '%ORIGINAL%'
          THEN 'G'
          ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
               THEN 'G'
               ELSE 'B'
               END)
      END
    BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
                :ol_amount,:brand_generic;
END u7;

PROCEDURE u8 IS
BEGIN
    FORALL idx IN 1 .. cache_ol_cnt
     UPDATE  stock_item
     SET s_order_cnt = s_order_cnt + 1,
     s_ytd = s_ytd + :ol_quantity(idx),
     s_remote_cnt = s_remote_cnt + :s_remote(idx),
     s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                   THEN s_quantity +91
                   ELSE s_quantity
               END) - :ol_quantity(idx)
     WHERE i_id = :ol_i_id(idx)
     AND s_w_id = :ol_supply_w_id(idx)
     RETURNING i_price, i_name, s_quantity, s_dist_08,
            i_price*:ol_quantity(idx),
      CASE WHEN i_data NOT LIKE '%ORIGINAL%'
          THEN 'G'
          ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
               THEN 'G'
               ELSE 'B'
               END)
      END
    BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
                :ol_amount,:brand_generic;
END u8;

PROCEDURE u9 IS
BEGIN
    FORALL idx IN 1 .. cache_ol_cnt
     UPDATE  stock_item
     SET s_order_cnt = s_order_cnt + 1,
     s_ytd = s_ytd + :ol_quantity(idx),
     s_remote_cnt = s_remote_cnt + :s_remote(idx),
     s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                   THEN s_quantity +91
                   ELSE s_quantity
               END) - :ol_quantity(idx)
     WHERE i_id = :ol_i_id(idx)
     AND s_w_id = :ol_supply_w_id(idx)
     RETURNING i_price, i_name, s_quantity, s_dist_09,
            i_price*:ol_quantity(idx),
      CASE WHEN i_data NOT LIKE '%ORIGINAL%'
          THEN 'G'
          ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
               THEN 'G'
               ELSE 'B'
               END)
      END
    BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
                :ol_amount,:brand_generic;
END u9;

PROCEDURE u10 IS
BEGIN
    FORALL idx IN 1 .. cache_ol_cnt
     UPDATE  stock_item
     SET s_order_cnt = s_order_cnt + 1,
     s_ytd = s_ytd + :ol_quantity(idx),
     s_remote_cnt = s_remote_cnt + :s_remote(idx),
```

```
    s_quantity = (CASE WHEN s_quantity < :ol_quantity (idx) + 10
                 THEN s_quantity +91
                 ELSE s_quantity
              END) - :ol_quantity(idx)
    WHERE i_id = :ol_i_id(idx)
    AND s_w_id = :ol_supply_w_id(idx)
    RETURNING i_price, i_name, s_quantity, s_dist_10,
          i_price*:ol_quantity(idx),
     CASE WHEN i_data NOT LIKE '%ORIGINAL%'
        THEN 'G'
         ELSE (CASE WHEN s_data NOT LIKE '%ORIGINAL%'
              THEN 'G'
              ELSE 'B'
              END)
     END
   BULK COLLECT INTO :i_price, :i_name, :s_quantity, inittpcc.s_dist,
             :ol_amount,:brand_generic;
END u10;

PROCEDURE fix_items IS
 rows_lost             PLS_INTEGER;
 max_index              PLS_INTEGER;
 temp_index             PLS_INTEGER;
BEGIN
 idx := 1;
 rows_lost := 0;
 max_index := dummy_local;

 WHILE (max_index != cache_ol_cnt) LOOP

  WHILE (idx <= sql%rowcount AND
           sql%bulk_rowcount(idx + rows_lost) = 1)
  LOOP
   idx := idx + 1;
  END LOOP;

  temp_index := max_index;
  WHILE (temp_index >= idx + rows_lost) LOOP
    :ol_amount(temp_index + 1)      :=  :ol_amount(temp_index);
    :i_price(temp_index + 1)        :=  :i_price(temp_index);
    :i_name(temp_index + 1)         :=  :i_name(temp_index);
    :s_quantity(temp_index + 1)     :=  :s_quantity(temp_index);
    inittpcc.s_dist(temp_index + 1) :=  inittpcc.s_dist(temp_index);
    :brand_generic(temp_index + 1)  :=  :brand_generic(temp_index);
    temp_index := temp_index - 1;
  END LOOP;

  IF (idx + rows_lost <= cache_ol_cnt) THEN
   :i_price(idx + rows_lost)        :=   0;
   :i_name(idx + rows_lost)         :=   'NO ITEM';
   :s_quantity(idx + rows_lost)     :=   0;
   inittpcc.s_dist(idx + rows_lost) := NULL;
   :brand_generic(idx + rows_lost)  := ' ';
   :ol_amount(idx + rows_lost)      := 0;
   rows_lost := rows_lost + 1;
   max_index := max_index + 1;
  END IF;
```

```
 END LOOP;
END fix_items;

BEGIN
  LOOP BEGIN
    cache_ol_cnt := :o_ol_cnt;

    UPDATE dist SET d_next_o_id = d_next_o_id + 1
     WHERE d_id = :d_id AND  d_w_id = :w_id
     RETURNING d_tax, d_next_o_id-1
     INTO :d_tax, :o_id;

    SELECT c_discount, c_last, c_credit
     INTO :c_discount, :c_last, :c_credit
     FROM cust
     WHERE c_id = :c_id AND c_d_id = :d_id AND c_w_id = :w_id;

    SELECT w_tax
     INTO :w_tax
     FROM ware
     WHERE w_id = :w_id;


    INSERT INTO nord (no_o_id, no_d_id, no_w_id)
     VALUES (:o_id, :d_id, :w_id);

    INSERT INTO ordr  (o_id,o_d_id, o_w_id, o_c_id, o_entry_d,
                  o_carrier_id, o_ol_cnt, o_all_local)
     VALUES (:o_id, :d_id, :w_id, :c_id,
          :cr_date, 11, :o_ol_cnt, :o_all_local);


    dummy_local :=  :d_id;

    IF (dummy_local < 6) THEN
     IF (dummy_local < 3) THEN
      IF (dummy_local = 1) THEN
        u1;
      ELSE
        u2;
      END IF;
     ELSE
      IF (dummy_local = 3) THEN
        u3;
      ELSIF (dummy_local = 4) then
        u4;
      ELSE
        u5;
      END IF;
     END IF;
    ELSE
     IF (dummy_local < 8) THEN
      IF (dummy_local = 6) THEN
        u6;
      ELSE
        u7;
      END IF;
     ELSE
```

```
      IF (dummy_local = 8) THEN
        u8;
      ELSIF (dummy_local = 9) then
        u9;
      ELSE
        u10;
      END IF;
     END IF;
    END IF;

    dummy_local := sql%rowcount;

    IF (dummy_local != cache_ol_cnt )  THEN fix_items; END IF;

    FORALL idx IN 1..dummy_local
     INSERT INTO ordl
       (ol_o_id, ol_d_id, ol_w_id, ol_number, ol_delivery_d, ol_i_id,
           ol_supply_w_id, ol_quantity,ol_amount,ol_dist_info)
     VALUES (:o_id, :d_id, :w_id, inittpcc.idx1arr(idx), inittpcc.nulldate,
           :ol_i_id(idx), :ol_supply_w_id(idx),
           :ol_quantity(idx), :ol_amount(idx), inittpcc.s_dist(idx));

    IF (dummy_local != :o_ol_cnt) THEN
      :o_ol_cnt := dummy_local;
      ROLLBACK;
    END IF;

  EXIT;

  EXCEPTION
       WHEN not_serializable OR deadlock OR snapshot_too_old THEN
          ROLLBACK;
          :retry := :retry + 1;
     END;
   END LOOP;
  END;
```

views.sql

```
connect tpcc/tpcc;
set echo on;

create or replace view wh_cust
(w_id, w_tax, c_id, c_d_id, c_w_id, c_discount, c_last, c_credit)
as select w.w_id, w.w_tax,
        c.c_id, c.c_d_id, c.c_w_id, c.c_discount, c.c_last, c.c_credit
  from cust c, ware w
  where w.w_id = c.c_w_id;

create or replace view wh_dist
(w_id, d_id, d_tax, d_next_o_id, w_tax )
as select w.w_id, d.d_id, d.d_tax, d.d_next_o_id, w.w_tax
  from dist d, ware w
  where w.w_id = d.d_w_id;

create  or replace view stock_item
(i_id, s_w_id, i_price, i_name, i_data, s_data, s_quantity,
 s_order_cnt, s_ytd, s_remote_cnt,
 s_dist_01, s_dist_02, s_dist_03, s_dist_04, s_dist_05,
```

```
 s_dist_06, s_dist_07, s_dist_08, s_dist_09, s_dist_10)
as
 select /*+ leading(s) use_nl(i) */
 i.i_id, s_w_id, i.i_price, i.i_name, i.i_data, s_data, s_quantity,
 s_order_cnt, s_ytd, s_remote_cnt,
 s_dist_01, s_dist_02, s_dist_03, s_dist_04, s_dist_05,
 s_dist_06, s_dist_07, s_dist_08, s_dist_09, s_dist_10
  from stok s, item i
 where i.i_id = s.s_i_id;

set echo off;
```

RTE Parameters

RTE parameters

```
setDriverParams :think_neworder     => 12.02
setDriverParams :think_payment      => 12.02
setDriverParams :think_orderstatus  => 10.02
setDriverParams :think_delivery     =>  5.02
setDriverParams :think_stocklevel   =>  5.02

set :mix_payment     => 43.001
set :mix_orderstatus => 4.001
set :mix_delivery    => 4.001
set :mix_stocklevel  => 4.001

set :warehouses => 90000*27
set :ramptime   => 30*60
set :runtime    => 3*60*60
```

Appendix C – Configuration Options

Database Node

prtdiag – nodes 1..27

```
System Configuration:  Sun Microsystems  sun4v SPARC T3-4
Memory size: 523776 Megabytes

================================ Virtual CPUs
================================


CPU ID Frequency Implementation        Status
------ --------- --------------------- -------
0      1649 MHz  SPARC-T3              on-line
1      1649 MHz  SPARC-T3              on-line
2      1649 MHz  SPARC-T3              on-line
3      1649 MHz  SPARC-T3              on-line
4      1649 MHz  SPARC-T3              on-line
5      1649 MHz  SPARC-T3              on-line
6      1649 MHz  SPARC-T3              on-line
7      1649 MHz  SPARC-T3              on-line
8      1649 MHz  SPARC-T3              on-line
9      1649 MHz  SPARC-T3              on-line
10     1649 MHz  SPARC-T3              on-line
11     1649 MHz  SPARC-T3              on-line
12     1649 MHz  SPARC-T3              on-line
13     1649 MHz  SPARC-T3              on-line
14     1649 MHz  SPARC-T3              on-line
15     1649 MHz  SPARC-T3              on-line
16     1649 MHz  SPARC-T3              on-line
17     1649 MHz  SPARC-T3              on-line
18     1649 MHz  SPARC-T3              on-line
19     1649 MHz  SPARC-T3              on-line
20     1649 MHz  SPARC-T3              on-line
21     1649 MHz  SPARC-T3              on-line
22     1649 MHz  SPARC-T3              on-line
23     1649 MHz  SPARC-T3              on-line
24     1649 MHz  SPARC-T3              on-line
25     1649 MHz  SPARC-T3              on-line
26     1649 MHz  SPARC-T3              on-line
27     1649 MHz  SPARC-T3              on-line
28     1649 MHz  SPARC-T3              on-line
29     1649 MHz  SPARC-T3              on-line
30     1649 MHz  SPARC-T3              on-line
31     1649 MHz  SPARC-T3              on-line
32     1649 MHz  SPARC-T3              on-line
33     1649 MHz  SPARC-T3              on-line
34     1649 MHz  SPARC-T3              on-line
35     1649 MHz  SPARC-T3              on-line
36     1649 MHz  SPARC-T3              on-line
37     1649 MHz  SPARC-T3              on-line
38     1649 MHz  SPARC-T3              on-line
39     1649 MHz  SPARC-T3              on-line
40     1649 MHz  SPARC-T3              on-line
41     1649 MHz  SPARC-T3              on-line
42     1649 MHz  SPARC-T3              on-line
43     1649 MHz  SPARC-T3              on-line
44     1649 MHz  SPARC-T3              on-line
45     1649 MHz  SPARC-T3              on-line
46     1649 MHz  SPARC-T3              on-line
47     1649 MHz  SPARC-T3              on-line
48     1649 MHz  SPARC-T3              on-line
49     1649 MHz  SPARC-T3              on-line
50     1649 MHz  SPARC-T3              on-line
51     1649 MHz  SPARC-T3              on-line
52     1649 MHz  SPARC-T3              on-line
53     1649 MHz  SPARC-T3              on-line
54     1649 MHz  SPARC-T3              on-line
55     1649 MHz  SPARC-T3              on-line
56     1649 MHz  SPARC-T3              on-line
57     1649 MHz  SPARC-T3              on-line
58     1649 MHz  SPARC-T3              on-line
59     1649 MHz  SPARC-T3              on-line
60     1649 MHz  SPARC-T3              on-line
61     1649 MHz  SPARC-T3              on-line
62     1649 MHz  SPARC-T3              on-line
63     1649 MHz  SPARC-T3              on-line
64     1649 MHz  SPARC-T3              on-line
65     1649 MHz  SPARC-T3              on-line
66     1649 MHz  SPARC-T3              on-line
67     1649 MHz  SPARC-T3              on-line
68     1649 MHz  SPARC-T3              on-line
69     1649 MHz  SPARC-T3              on-line
70     1649 MHz  SPARC-T3              on-line
71     1649 MHz  SPARC-T3              on-line
72     1649 MHz  SPARC-T3              on-line
73     1649 MHz  SPARC-T3              on-line
74     1649 MHz  SPARC-T3              on-line
75     1649 MHz  SPARC-T3              on-line
76     1649 MHz  SPARC-T3              on-line
77     1649 MHz  SPARC-T3              on-line
78     1649 MHz  SPARC-T3              on-line
79     1649 MHz  SPARC-T3              on-line
80     1649 MHz  SPARC-T3              on-line
81     1649 MHz  SPARC-T3              on-line
82     1649 MHz  SPARC-T3              on-line
83     1649 MHz  SPARC-T3              on-line
84     1649 MHz  SPARC-T3              on-line
85     1649 MHz  SPARC-T3              on-line
86     1649 MHz  SPARC-T3              on-line
87     1649 MHz  SPARC-T3              on-line
88     1649 MHz  SPARC-T3              on-line
89     1649 MHz  SPARC-T3              on-line
90     1649 MHz  SPARC-T3              on-line
91     1649 MHz  SPARC-T3              on-line
92     1649 MHz  SPARC-T3              on-line
93     1649 MHz  SPARC-T3              on-line
94     1649 MHz  SPARC-T3              on-line
95     1649 MHz  SPARC-T3              on-line
96     1649 MHz  SPARC-T3              on-line
97     1649 MHz  SPARC-T3              on-line
98     1649 MHz  SPARC-T3              on-line
99     1649 MHz  SPARC-T3              on-line
100    1649 MHz  SPARC-T3              on-line
101    1649 MHz  SPARC-T3              on-line
102    1649 MHz  SPARC-T3              on-line
103    1649 MHz  SPARC-T3              on-line
104    1649 MHz  SPARC-T3              on-line
105    1649 MHz  SPARC-T3              on-line
106    1649 MHz  SPARC-T3              on-line
107    1649 MHz  SPARC-T3              on-line
108    1649 MHz  SPARC-T3              on-line
109    1649 MHz  SPARC-T3              on-line
110    1649 MHz  SPARC-T3              on-line
111    1649 MHz  SPARC-T3              on-line
112    1649 MHz  SPARC-T3              on-line
113    1649 MHz  SPARC-T3              on-line
114    1649 MHz  SPARC-T3              on-line
115    1649 MHz  SPARC-T3              on-line
116    1649 MHz  SPARC-T3              on-line
117    1649 MHz  SPARC-T3              on-line
118    1649 MHz  SPARC-T3              on-line
119    1649 MHz  SPARC-T3              on-line
120    1649 MHz  SPARC-T3              on-line
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122    1649 MHz  SPARC-T3              on-line
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125    1649 MHz  SPARC-T3              on-line
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131    1649 MHz  SPARC-T3              on-line
132    1649 MHz  SPARC-T3              on-line
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134    1649 MHz  SPARC-T3              on-line
135    1649 MHz  SPARC-T3              on-line
136    1649 MHz  SPARC-T3              on-line
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138    1649 MHz  SPARC-T3              on-line
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141    1649 MHz  SPARC-T3              on-line
142    1649 MHz  SPARC-T3              on-line
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149    1649 MHz  SPARC-T3              on-line
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151    1649 MHz  SPARC-T3              on-line
152    1649 MHz  SPARC-T3              on-line
153    1649 MHz  SPARC-T3              on-line
154    1649 MHz  SPARC-T3              on-line
155    1649 MHz  SPARC-T3              on-line
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156   1649 MHz  SPARC-T3            on-line
157   1649 MHz  SPARC-T3            on-line
158   1649 MHz  SPARC-T3            on-line
159   1649 MHz  SPARC-T3            on-line
160   1649 MHz  SPARC-T3            on-line
161   1649 MHz  SPARC-T3            on-line
162   1649 MHz  SPARC-T3            on-line
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169   1649 MHz  SPARC-T3            on-line
170   1649 MHz  SPARC-T3            on-line
171   1649 MHz  SPARC-T3            on-line
172   1649 MHz  SPARC-T3            on-line
173   1649 MHz  SPARC-T3            on-line
174   1649 MHz  SPARC-T3            on-line
175   1649 MHz  SPARC-T3            on-line
176   1649 MHz  SPARC-T3            on-line
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178   1649 MHz  SPARC-T3            on-line
179   1649 MHz  SPARC-T3            on-line
180   1649 MHz  SPARC-T3            on-line
181   1649 MHz  SPARC-T3            on-line
182   1649 MHz  SPARC-T3            on-line
183   1649 MHz  SPARC-T3            on-line
184   1649 MHz  SPARC-T3            on-line
185   1649 MHz  SPARC-T3            on-line
186   1649 MHz  SPARC-T3            on-line
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188   1649 MHz  SPARC-T3            on-line
189   1649 MHz  SPARC-T3            on-line
190   1649 MHz  SPARC-T3            on-line
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201   1649 MHz  SPARC-T3            on-line
202   1649 MHz  SPARC-T3            on-line
203   1649 MHz  SPARC-T3            on-line
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210   1649 MHz  SPARC-T3            on-line
211   1649 MHz  SPARC-T3            on-line
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214   1649 MHz  SPARC-T3            on-line
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257   1649 MHz  SPARC-T3            on-line
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263   1649 MHz  SPARC-T3            on-line
264   1649 MHz  SPARC-T3            on-line
265   1649 MHz  SPARC-T3            on-line
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267   1649 MHz  SPARC-T3            on-line
268   1649 MHz  SPARC-T3            on-line
269   1649 MHz  SPARC-T3            on-line
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271   1649 MHz  SPARC-T3            on-line
272   1649 MHz  SPARC-T3            on-line
273   1649 MHz  SPARC-T3            on-line
274   1649 MHz  SPARC-T3            on-line
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278   1649 MHz  SPARC-T3            on-line
279   1649 MHz  SPARC-T3            on-line
280   1649 MHz  SPARC-T3            on-line
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281   1649 MHz  SPARC-T3          on-line
282   1649 MHz  SPARC-T3          on-line
283   1649 MHz  SPARC-T3          on-line
284   1649 MHz  SPARC-T3          on-line
285   1649 MHz  SPARC-T3          on-line
286   1649 MHz  SPARC-T3          on-line
287   1649 MHz  SPARC-T3          on-line
288   1649 MHz  SPARC-T3          on-line
289   1649 MHz  SPARC-T3          on-line
290   1649 MHz  SPARC-T3          on-line
291   1649 MHz  SPARC-T3          on-line
292   1649 MHz  SPARC-T3          on-line
293   1649 MHz  SPARC-T3          on-line
294   1649 MHz  SPARC-T3          on-line
295   1649 MHz  SPARC-T3          on-line
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297   1649 MHz  SPARC-T3          on-line
298   1649 MHz  SPARC-T3          on-line
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302   1649 MHz  SPARC-T3          on-line
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307   1649 MHz  SPARC-T3          on-line
308   1649 MHz  SPARC-T3          on-line
309   1649 MHz  SPARC-T3          on-line
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312   1649 MHz  SPARC-T3          on-line
313   1649 MHz  SPARC-T3          on-line
314   1649 MHz  SPARC-T3          on-line
315   1649 MHz  SPARC-T3          on-line
316   1649 MHz  SPARC-T3          on-line
317   1649 MHz  SPARC-T3          on-line
318   1649 MHz  SPARC-T3          on-line
319   1649 MHz  SPARC-T3          on-line
320   1649 MHz  SPARC-T3          on-line
321   1649 MHz  SPARC-T3          on-line
322   1649 MHz  SPARC-T3          on-line
323   1649 MHz  SPARC-T3          on-line
324   1649 MHz  SPARC-T3          on-line
325   1649 MHz  SPARC-T3          on-line
326   1649 MHz  SPARC-T3          on-line
327   1649 MHz  SPARC-T3          on-line
328   1649 MHz  SPARC-T3          on-line
329   1649 MHz  SPARC-T3          on-line
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330   1649 MHz  SPARC-T3            on-line
331   1649 MHz  SPARC-T3            on-line
332   1649 MHz  SPARC-T3            on-line
333   1649 MHz  SPARC-T3            on-line
334   1649 MHz  SPARC-T3            on-line
335   1649 MHz  SPARC-T3            on-line
336   1649 MHz  SPARC-T3            on-line
337   1649 MHz  SPARC-T3            on-line
338   1649 MHz  SPARC-T3            on-line
339   1649 MHz  SPARC-T3            on-line
340   1649 MHz  SPARC-T3            on-line
341   1649 MHz  SPARC-T3            on-line
342   1649 MHz  SPARC-T3            on-line
343   1649 MHz  SPARC-T3            on-line
344   1649 MHz  SPARC-T3            on-line
345   1649 MHz  SPARC-T3            on-line
346   1649 MHz  SPARC-T3            on-line
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354   1649 MHz  SPARC-T3            on-line
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367   1649 MHz  SPARC-T3            on-line
368   1649 MHz  SPARC-T3            on-line
369   1649 MHz  SPARC-T3            on-line
370   1649 MHz  SPARC-T3            on-line
371   1649 MHz  SPARC-T3            on-line
372   1649 MHz  SPARC-T3            on-line
373   1649 MHz  SPARC-T3            on-line
374   1649 MHz  SPARC-T3            on-line
375   1649 MHz  SPARC-T3            on-line
376   1649 MHz  SPARC-T3            on-line
377   1649 MHz  SPARC-T3            on-line
378   1649 MHz  SPARC-T3            on-line
379   1649 MHz  SPARC-T3            on-line
380   1649 MHz  SPARC-T3            on-line
381   1649 MHz  SPARC-T3            on-line
382   1649 MHz  SPARC-T3            on-line
383   1649 MHz  SPARC-T3            on-line
384   1649 MHz  SPARC-T3            on-line
385   1649 MHz  SPARC-T3            on-line
386   1649 MHz  SPARC-T3            on-line
387   1649 MHz  SPARC-T3            on-line
388   1649 MHz  SPARC-T3            on-line
389   1649 MHz  SPARC-T3            on-line
390   1649 MHz  SPARC-T3            on-line
391   1649 MHz  SPARC-T3            on-line
392   1649 MHz  SPARC-T3            on-line
393   1649 MHz  SPARC-T3            on-line
394   1649 MHz  SPARC-T3            on-line
395   1649 MHz  SPARC-T3            on-line
396   1649 MHz  SPARC-T3            on-line
397   1649 MHz  SPARC-T3            on-line
398   1649 MHz  SPARC-T3            on-line
399   1649 MHz  SPARC-T3            on-line
400   1649 MHz  SPARC-T3            on-line
401   1649 MHz  SPARC-T3            on-line
402   1649 MHz  SPARC-T3            on-line
403   1649 MHz  SPARC-T3            on-line
404   1649 MHz  SPARC-T3            on-line
405   1649 MHz  SPARC-T3            on-line
406   1649 MHz  SPARC-T3            on-line
407   1649 MHz  SPARC-T3            on-line
408   1649 MHz  SPARC-T3            on-line
409   1649 MHz  SPARC-T3            on-line
410   1649 MHz  SPARC-T3            on-line
411   1649 MHz  SPARC-T3            on-line
412   1649 MHz  SPARC-T3            on-line
413   1649 MHz  SPARC-T3            on-line
414   1649 MHz  SPARC-T3            on-line
415   1649 MHz  SPARC-T3            on-line
416   1649 MHz  SPARC-T3            on-line
417   1649 MHz  SPARC-T3            on-line
418   1649 MHz  SPARC-T3            on-line
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420   1649 MHz  SPARC-T3            on-line
421   1649 MHz  SPARC-T3            on-line
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423   1649 MHz  SPARC-T3            on-line
424   1649 MHz  SPARC-T3            on-line
425   1649 MHz  SPARC-T3            on-line
426   1649 MHz  SPARC-T3            on-line
427   1649 MHz  SPARC-T3            on-line
428   1649 MHz  SPARC-T3            on-line
429   1649 MHz  SPARC-T3            on-line
430   1649 MHz  SPARC-T3            on-line
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433   1649 MHz  SPARC-T3            on-line
434   1649 MHz  SPARC-T3            on-line
435   1649 MHz  SPARC-T3            on-line
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440   1649 MHz  SPARC-T3            on-line
441   1649 MHz  SPARC-T3            on-line
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444   1649 MHz  SPARC-T3            on-line
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457   1649 MHz  SPARC-T3            on-line
458   1649 MHz  SPARC-T3            on-line
459   1649 MHz  SPARC-T3            on-line
460   1649 MHz  SPARC-T3            on-line
461   1649 MHz  SPARC-T3            on-line
462   1649 MHz  SPARC-T3            on-line
463   1649 MHz  SPARC-T3            on-line
464   1649 MHz  SPARC-T3            on-line
465   1649 MHz  SPARC-T3            on-line
466   1649 MHz  SPARC-T3            on-line
467   1649 MHz  SPARC-T3            on-line
468   1649 MHz  SPARC-T3            on-line
469   1649 MHz  SPARC-T3            on-line
470   1649 MHz  SPARC-T3            on-line
471   1649 MHz  SPARC-T3            on-line
472   1649 MHz  SPARC-T3            on-line
473   1649 MHz  SPARC-T3            on-line
474   1649 MHz  SPARC-T3            on-line
475   1649 MHz  SPARC-T3            on-line
476   1649 MHz  SPARC-T3            on-line
477   1649 MHz  SPARC-T3            on-line
478   1649 MHz  SPARC-T3            on-line
479   1649 MHz  SPARC-T3            on-line
480   1649 MHz  SPARC-T3            on-line
481   1649 MHz  SPARC-T3            on-line
482   1649 MHz  SPARC-T3            on-line
483   1649 MHz  SPARC-T3            on-line
484   1649 MHz  SPARC-T3            on-line
485   1649 MHz  SPARC-T3            on-line
486   1649 MHz  SPARC-T3            on-line
487   1649 MHz  SPARC-T3            on-line
488   1649 MHz  SPARC-T3            on-line
489   1649 MHz  SPARC-T3            on-line
490   1649 MHz  SPARC-T3            on-line
491   1649 MHz  SPARC-T3            on-line
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493   1649 MHz  SPARC-T3            on-line
494   1649 MHz  SPARC-T3            on-line
495   1649 MHz  SPARC-T3            on-line
496   1649 MHz  SPARC-T3            on-line
497   1649 MHz  SPARC-T3            on-line
498   1649 MHz  SPARC-T3            on-line
499   1649 MHz  SPARC-T3            on-line
500   1649 MHz  SPARC-T3            on-line
501   1649 MHz  SPARC-T3            on-line
502   1649 MHz  SPARC-T3            on-line
503   1649 MHz  SPARC-T3            on-line
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504    1649 MHz  SPARC-T3            on-line
505    1649 MHz  SPARC-T3            on-line
506    1649 MHz  SPARC-T3            on-line
507    1649 MHz  SPARC-T3            on-line
508    1649 MHz  SPARC-T3            on-line
509    1649 MHz  SPARC-T3            on-line
510    1649 MHz  SPARC-T3            on-line
511    1649 MHz  SPARC-T3            on-line

======================= Physical Memory Configuration
========================
Segment Table:
--------------------------------------------------------------
Base           Segment  Interleave  Bank     Contains
Address         Size     Factor      Size    Modules
--------------------------------------------------------------
0x0            512 GB   8          64 GB    /SYS/PM0/CMP0/BOB0/CH0/D0
                                            /SYS/PM0/CMP0/BOB0/CH0/D1
                                            /SYS/PM0/CMP0/BOB0/CH1/D0
                                            /SYS/PM0/CMP0/BOB0/CH1/D1
                                            /SYS/PM0/CMP0/BOB1/CH0/D0
                                            /SYS/PM0/CMP0/BOB1/CH0/D1
                                            /SYS/PM0/CMP0/BOB1/CH1/D0
                                            /SYS/PM0/CMP0/BOB1/CH1/D1
                                   64 GB    /SYS/PM0/CMP0/BOB2/CH0/D0
                                            /SYS/PM0/CMP0/BOB2/CH0/D1
                                            /SYS/PM0/CMP0/BOB2/CH1/D0
                                            /SYS/PM0/CMP0/BOB2/CH1/D1
                                            /SYS/PM0/CMP0/BOB3/CH0/D0
                                            /SYS/PM0/CMP0/BOB3/CH0/D1
                                            /SYS/PM0/CMP0/BOB3/CH1/D0
                                            /SYS/PM0/CMP0/BOB3/CH1/D1
                                   64 GB    /SYS/PM0/CMP1/BOB0/CH0/D0
                                            /SYS/PM0/CMP1/BOB0/CH0/D1
                                            /SYS/PM0/CMP1/BOB0/CH1/D0
                                            /SYS/PM0/CMP1/BOB0/CH1/D1
                                            /SYS/PM0/CMP1/BOB1/CH0/D0
                                            /SYS/PM0/CMP1/BOB1/CH0/D1
                                            /SYS/PM0/CMP1/BOB1/CH1/D0
                                            /SYS/PM0/CMP1/BOB1/CH1/D1
                                   64 GB    /SYS/PM0/CMP1/BOB2/CH0/D0
                                            /SYS/PM0/CMP1/BOB2/CH0/D1
                                            /SYS/PM0/CMP1/BOB2/CH1/D0
                                            /SYS/PM0/CMP1/BOB2/CH1/D1
                                            /SYS/PM0/CMP1/BOB3/CH0/D0
                                            /SYS/PM0/CMP1/BOB3/CH0/D1
                                            /SYS/PM0/CMP1/BOB3/CH1/D0
                                            /SYS/PM0/CMP1/BOB3/CH1/D1
                                   64 GB    /SYS/PM1/CMP0/BOB0/CH0/D0
                                            /SYS/PM1/CMP0/BOB0/CH0/D1
                                            /SYS/PM1/CMP0/BOB0/CH1/D0
                                            /SYS/PM1/CMP0/BOB0/CH1/D1
                                            /SYS/PM1/CMP0/BOB1/CH0/D0
                                            /SYS/PM1/CMP0/BOB1/CH0/D1
                                            /SYS/PM1/CMP0/BOB1/CH1/D0
                                            /SYS/PM1/CMP0/BOB1/CH1/D1
                                   64 GB    /SYS/PM1/CMP0/BOB2/CH0/D0
                                            /SYS/PM1/CMP0/BOB2/CH0/D1
                                            /SYS/PM1/CMP0/BOB2/CH1/D0
                                            /SYS/PM1/CMP0/BOB2/CH1/D1
                                            /SYS/PM1/CMP0/BOB3/CH0/D0
                                            /SYS/PM1/CMP0/BOB3/CH0/D1
                                            /SYS/PM1/CMP0/BOB3/CH1/D0
                                            /SYS/PM1/CMP0/BOB3/CH1/D1
                                   64 GB    /SYS/PM1/CMP1/BOB0/CH0/D0
                                            /SYS/PM1/CMP1/BOB0/CH0/D1
                                            /SYS/PM1/CMP1/BOB0/CH1/D0
                                            /SYS/PM1/CMP1/BOB0/CH1/D1
                                            /SYS/PM1/CMP1/BOB1/CH0/D0
                                            /SYS/PM1/CMP1/BOB1/CH0/D1
                                            /SYS/PM1/CMP1/BOB1/CH1/D0
                                            /SYS/PM1/CMP1/BOB1/CH1/D1
                                   64 GB    /SYS/PM1/CMP1/BOB2/CH0/D0
                                            /SYS/PM1/CMP1/BOB2/CH0/D1
                                            /SYS/PM1/CMP1/BOB2/CH1/D0
                                            /SYS/PM1/CMP1/BOB2/CH1/D1
                                            /SYS/PM1/CMP1/BOB3/CH0/D0
                                            /SYS/PM1/CMP1/BOB3/CH0/D1
                                            /SYS/PM1/CMP1/BOB3/CH1/D0
                                            /SYS/PM1/CMP1/BOB3/CH1/D1


================================= IO Devices
=================================
Slot +           Bus   Name +                          Model
Status           Type  Path
--------------------------------------------------------------------------
/SYS/MB/REM0/SASHBA0PCIE  LSI,sas-pciex1000,72              LSI,2008
                 /pci@400/pci@1/pci@0/pci@0/LSI,sas@0
/SYS/RIO/NET0     PCIE  network-pciex8086,10c9
                 /pci@400/pci@1/pci@0/pci@2/network@0
/SYS/RIO/NET1     PCIE  network-pciex8086,10c9
                 /pci@400/pci@1/pci@0/pci@2/network@0,1
/SYS/PCI-EM9      PCIE  network-pciex8086,105e          LPem12002E-S
                 /pci@500/pci@2/pci@0/pci@2/pci@0/pci@2/network@0
/SYS/PCI-EM9      PCIE  network-pciex8086,105e          LPem12002E-S
                 /pci@500/pci@2/pci@0/pci@2/pci@0/pci@2/network@0,1
/SYS/PCI-EM9      PCIE  SUNW,emlxs-pciex10df,fc40         LPem12002E-S
                 /pci@500/pci@2/pci@0/pci@2/pci@0/pci@3/SUNW,emlxs
@0
/SYS/PCI-EM9      PCIE  SUNW,emlxs-pciex10df,fc40         LPem12002E-S
                 /pci@500/pci@2/pci@0/pci@2/pci@0/pci@3/SUNW,emlxs
@0,1
/SYS/PCI-EM4      PCIE  network-pciex8086,105e          LPem12002E-S
                 /pci@600/pci@1/pci@0/pci@4/pci@0/pci@2/network@0
/SYS/PCI-EM4      PCIE  network-pciex8086,105e          LPem12002E-S
                 /pci@600/pci@1/pci@0/pci@4/pci@0/pci@2/network@0,1
/SYS/PCI-EM4      PCIE  SUNW,emlxs-pciex10df,fc40         LPem12002E-S
                 /pci@600/pci@1/pci@0/pci@4/pci@0/pci@3/SUNW,emlxs
@0
/SYS/PCI-EM4      PCIE  SUNW,emlxs-pciex10df,fc40         LPem12002E-S
                 /pci@600/pci@1/pci@0/pci@4/pci@0/pci@3/SUNW,emlxs
@0,1
/SYS/PCI-EM7      PCIE  network-pciex8086,105e          LPem12002E-S
                 /pci@600/pci@2/pci@0/pci@0/pci@0/pci@2/network@0
/SYS/PCI-EM7      PCIE  network-pciex8086,105e          LPem12002E-S
                 /pci@600/pci@2/pci@0/pci@0/pci@0/pci@2/network@0,1
/SYS/PCI-EM7      PCIE  SUNW,emlxs-pciex10df,fc40         LPem12002E-S
                 /pci@600/pci@2/pci@0/pci@0/pci@0/pci@3/SUNW,emlxs
@0
/SYS/PCI-EM7      PCIE  SUNW,emlxs-pciex10df,fc40         LPem12002E-S
                 /pci@600/pci@2/pci@0/pci@0/pci@0/pci@3/SUNW,emlxs
@0,1
/SYS/RIO/NET2     PCIE  network-pciex8086,10c9
                 /pci@600/pci@2/pci@0/pci@3/network@0
/SYS/RIO/NET3     PCIE  network-pciex8086,10c9
                 /pci@600/pci@2/pci@0/pci@3/network@0,1
/SYS/MB/REM1/SASHBA1PCIE  LSI,sas-pciex1000,72              LSI,2008
                 /pci@700/pci@1/pci@0/pci@0/LSI,sas@0
/SYS/PCI-EM14     PCIE  network-pciex8086,105e          LPem12002E-S
                 /pci@700/pci@1/pci@0/pci@4/pci@0/pci@2/network@0
/SYS/PCI-EM14     PCIE  network-pciex8086,105e          LPem12002E-S
                 /pci@700/pci@1/pci@0/pci@4/pci@0/pci@2/network@0,1
/SYS/PCI-EM14     PCIE  SUNW,emlxs-pciex10df,fc40         LPem12002E-
S
                 /pci@700/pci@1/pci@0/pci@4/pci@0/pci@3/SUNW,emlxs
@0
/SYS/PCI-EM14     PCIE  SUNW,emlxs-pciex10df,fc40         LPem12002E-
S
                 /pci@700/pci@1/pci@0/pci@4/pci@0/pci@3/SUNW,emlxs
@0,1
/SYS/PCI-EM15     PCIE  network-pciex8086,1507          X1110a-z/1110a-z
                 /pci@700/pci@2/pci@0/pci@5/network@0
/SYS/PCI-EM15     PCIE  network-pciex8086,1507          X1110a-z/1110a-z
                 /pci@700/pci@2/pci@0/pci@5/network@0,1
/SYS/MB/VIDEO     PCIX  display-pci1a03,2000
                 /pci@400/pci@1/pci@0/pci@7/pci@0/display@0
MB               PCIX  usb-pciclass,0c0310
                 /pci@400/pci@1/pci@0/pci@8/pci@0/usb@0
MB               PCIX  usb-pciclass,0c0310
                 /pci@400/pci@1/pci@0/pci@8/pci@0/usb@0,1
MB               PCIX  usb-pciclass,0c0320
                 /pci@400/pci@1/pci@0/pci@8/pci@0/usb

============================ Environmental Status
============================
Fan sensors:
All fan sensors are OK.

Temperature sensors:
All temperature sensors are OK.

Temperature indicators:
All temperature indicators are OK.

Current sensors:
All current sensors are OK.

Current indicators:
All current indicators are OK.

Voltage sensors:
All voltage sensors are OK.
```

```
Voltage indicators:
----------------------------------------------------------------
Location                    Indicator         Condition
----------------------------------------------------------------
SYS/MB/FMOD                   WRITE_THROUGH      disabled

============================ FRU Status
============================
All FRUs are enabled.
```

Prtconf nodes 1..27

```
System Configuration:  Sun Microsystems  sun4v
Memory size: 523776 Megabytes
System Peripherals (Software Nodes):

sun4v
    scsi_vhci, instance #0
        disk, instance #0
        disk, instance #1
        disk, instance #2
        disk, instance #3
        disk, instance #6
        disk, instance #5
        disk, instance #7
        disk, instance #8
        ssd, instance #2042
        ssd, instance #2043
        ssd, instance #2044
        ssd, instance #2045
        ssd, instance #2046
        ssd, instance #2047
        ssd, instance #2036
        ssd, instance #2049
        ssd, instance #2030
        ssd, instance #2031
        ssd, instance #2032
        ssd, instance #2033
        ssd, instance #2034
        ssd, instance #2035
        ssd, instance #2048
        ssd, instance #2193
        ssd, instance #2194
        ssd, instance #2195
        ssd, instance #2196
        ssd, instance #2197
        ssd, instance #2198
        ssd, instance #2211
        ssd, instance #2205
        ssd, instance #2206
        ssd, instance #2207
        ssd, instance #2208
        ssd, instance #2209
        ssd, instance #2210
        ssd, instance #2199
        ssd, instance #2212
        ssd, instance #2168
        ssd, instance #2169
        ssd, instance #2170
        ssd, instance #2171
        ssd, instance #2172
        ssd, instance #2173
        ssd, instance #2186
        ssd, instance #2230
        ssd, instance #2231
        ssd, instance #2232
        ssd, instance #2233
        ssd, instance #2234
        ssd, instance #2235
        ssd, instance #2224
        ssd, instance #2237
        ssd, instance #1911
        ssd, instance #1912
        ssd, instance #1913
        ssd, instance #1914
        ssd, instance #1915
        ssd, instance #1916
        ssd, instance #1904
        ssd, instance #2073
        ssd, instance #2074
        ssd, instance #2075
        ssd, instance #2076
        ssd, instance #2077
        ssd, instance #2078
        ssd, instance #2161
        ssd, instance #1931
        ssd, instance #1932
        ssd, instance #1933
        ssd, instance #1934
        ssd, instance #1935
        ssd, instance #1936
        ssd, instance #1929
        ssd, instance #2180
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        ssd, instance #2182
        ssd, instance #2183
        ssd, instance #2345
        ssd, instance #2346
        ssd, instance #2347
        ssd, instance #2348
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        ssd, instance #2328
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        ssd, instance #2360
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        ssd, instance #2295
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        ssd, instance #2352
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        ssd, instance #2354
        ssd, instance #2355
        ssd, instance #2334
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        ssd, instance #2367
        ssd, instance #2368
        ssd, instance #2369
        ssd, instance #2370
        ssd, instance #2371
        ssd, instance #2338
        ssd, instance #2339
        ssd, instance #2361
        ssd, instance #2362
        ssd, instance #2363
        ssd, instance #2364
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        ssd, instance #2313
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        ssd, instance #2174
        ssd, instance #2187
        ssd, instance #2218
        ssd, instance #2219
        ssd, instance #2220
        ssd, instance #2221
        ssd, instance #2222
        ssd, instance #2223
        ssd, instance #2236
        ssd, instance #1923
        ssd, instance #1924
        ssd, instance #1925
        ssd, instance #1926
        ssd, instance #1927
        ssd, instance #1928
```

ssd, instance #1937
ssd, instance #1930
ssd, instance #2011
ssd, instance #2012
ssd, instance #2023
ssd, instance #2024
ssd, instance #2155
ssd, instance #2156
ssd, instance #2157
ssd, instance #2158
ssd, instance #2159
ssd, instance #2160
ssd, instance #2079
ssd, instance #2162
ssd, instance #2104
ssd, instance #2105
ssd, instance #2106
ssd, instance #2107
ssd, instance #2108
ssd, instance #2109
ssd, instance #2148
ssd, instance #1968
ssd, instance #1969
ssd, instance #1970
ssd, instance #1971
ssd, instance #1972
ssd, instance #1973
ssd, instance #1961
ssd, instance #2116
ssd, instance #2117
ssd, instance #2118
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ssd, instance #2120
ssd, instance #2121
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ssd, instance #2123
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ssd, instance #1957
ssd, instance #1958
ssd, instance #1959
ssd, instance #1960
ssd, instance #1974
ssd, instance #1962
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ssd, instance #1899
ssd, instance #1900
ssd, instance #1901
ssd, instance #1902
ssd, instance #1903
ssd, instance #1917
ssd, instance #1905
ssd, instance #1993
ssd, instance #1994
ssd, instance #1995
ssd, instance #1996
ssd, instance #1997
ssd, instance #1998
ssd, instance #2061
ssd, instance #2142
ssd, instance #2143
ssd, instance #2144
ssd, instance #2145
ssd, instance #2146
ssd, instance #2147
ssd, instance #2110
ssd, instance #2149
ssd, instance #1886
ssd, instance #1887
ssd, instance #1888
ssd, instance #1889
ssd, instance #1890
ssd, instance #1891
ssd, instance #1879
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ssd, instance #2095
ssd, instance #2096
ssd, instance #2097
ssd, instance #2098
ssd, instance #2135
ssd, instance #2055
ssd, instance #2056
ssd, instance #2057
ssd, instance #2058
ssd, instance #2059
ssd, instance #2060
ssd, instance #1999
ssd, instance #2062
ssd, instance #2085
ssd, instance #2086
ssd, instance #2087
ssd, instance #2088
ssd, instance #2089
ssd, instance #2090
ssd, instance #2122
ssd, instance #1873
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ssd, instance #1877
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ssd, instance #1892
ssd, instance #1880
ssd, instance #1943
ssd, instance #1944
ssd, instance #1945
ssd, instance #1946
ssd, instance #1947
ssd, instance #1948
ssd, instance #1986
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ssd, instance #2130
ssd, instance #2131
ssd, instance #2132
ssd, instance #2133
ssd, instance #2134
ssd, instance #2099
ssd, instance #2136
ssd, instance #1980
ssd, instance #1981
ssd, instance #1982
ssd, instance #1983
ssd, instance #1984
ssd, instance #1985
ssd, instance #1949
ssd, instance #1987
ssd, instance #2386
ssd, instance #2387
ssd, instance #2388
ssd, instance #2303
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ssd, instance #2470
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ssd, instance #758
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ssd, instance #60
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ssd, instance #65
ssd, instance #66
ssd, instance #67
ssd, instance #68
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ssd, instance #1013
ssd, instance #1014
ssd, instance #1019
ssd, instance #1020
ssd, instance #961
ssd, instance #962
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ssd, instance #967
ssd, instance #968
ssd, instance #969
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ssd, instance #971
ssd, instance #972
ssd, instance #973
ssd, instance #1021
ssd, instance #1022
ssd, instance #1028
ssd, instance #1031
ssd, instance #1032
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ssd, instance #1035
ssd, instance #1036
ssd, instance #1037
ssd, instance #974
ssd, instance #975
ssd, instance #976
ssd, instance #977
ssd, instance #978

ssd, instance #979
ssd, instance #980
ssd, instance #981
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ssd, instance #985
ssd, instance #986
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ssd, instance #999
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ssd, instance #949
ssd, instance #950
ssd, instance #951
ssd, instance #952
ssd, instance #953
ssd, instance #954
ssd, instance #955
ssd, instance #956
ssd, instance #957
ssd, instance #958
ssd, instance #959
ssd, instance #960
ssd, instance #1040
ssd, instance #1041
ssd, instance #1042
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ssd, instance #1046
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ssd, instance #1049
ssd, instance #1050
ssd, instance #1051
ssd, instance #1052
ssd, instance #1053
ssd, instance #1000
ssd, instance #1001
ssd, instance #1002
ssd, instance #1010
ssd, instance #1011
ssd, instance #1016
ssd, instance #1017
ssd, instance #1023
ssd, instance #1024
ssd, instance #1025
ssd, instance #1026
ssd, instance #1029
ssd, instance #1030
ssd, instance #1003
ssd, instance #1004
ssd, instance #1005
ssd, instance #1006
ssd, instance #1007
ssd, instance #1008
ssd, instance #1009
ssd, instance #1015
ssd, instance #1018
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ssd, instance #1038
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ssd, instance #878
ssd, instance #879
ssd, instance #880
ssd, instance #695
ssd, instance #696
ssd, instance #697
ssd, instance #698
ssd, instance #699
ssd, instance #700
ssd, instance #701
ssd, instance #702
ssd, instance #703
ssd, instance #704
ssd, instance #705
ssd, instance #706
ssd, instance #707
ssd, instance #827
ssd, instance #828
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ssd, instance #830
ssd, instance #831
ssd, instance #832
ssd, instance #833
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ssd, instance #835
ssd, instance #836
ssd, instance #837
ssd, instance #838
ssd, instance #83
ssd, instance #84
ssd, instance #85
ssd, instance #86
ssd, instance #87
ssd, instance #88
ssd, instance #89
ssd, instance #839
ssd, instance #90
ssd, instance #91
ssd, instance #92
ssd, instance #93
ssd, instance #94
ssd, instance #95
ssd, instance #96
ssd, instance #97
ssd, instance #98
ssd, instance #99
ssd, instance #100
ssd, instance #101
ssd, instance #102
ssd, instance #103
ssd, instance #104
ssd, instance #105
ssd, instance #106
ssd, instance #107
ssd, instance #108
ssd, instance #109
ssd, instance #840
ssd, instance #841
ssd, instance #842
ssd, instance #843
ssd, instance #844
ssd, instance #845
ssd, instance #846
ssd, instance #847
ssd, instance #848
ssd, instance #849
ssd, instance #850
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    packages (driver not attached)
        SUNW,builtin-drivers (driver not attached)
        deblocker (driver not attached)
        disk-label (driver not attached)
        terminal-emulator (driver not attached)
        dropins (driver not attached)
        SUNW,asr (driver not attached)
        kbd-translator (driver not attached)
        obp-tftp (driver not attached)
        ufs-file-system (driver not attached)
        hsfs-file-system (driver not attached)
    chosen (driver not attached)
    openprom (driver not attached)
        client-services (driver not attached)
    options, instance #0
    aliases (driver not attached)
    memory (driver not attached)
    virtual-memory (driver not attached)
    iscsi-hba (driver not attached)
        disk (driver not attached)
    virtual-devices, instance #0
        flashprom (driver not attached)
        tpm (driver not attached)
        channel-devices, instance #0
            virtual-channel, instance #0
            virtual-channel-client, instance #1
            virtual-channel-client, instance #2
            virtual-channel, instance #3
            virtual-domain-service, instance #0
        n2cp, instance #0 (driver not attached)
        ncp, instance #0
        random-number-generator, instance #0
        console, instance #0
        rtc (driver not attached)
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cpu, instance #305
cpu, instance #306
cpu, instance #307
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cpu, instance #504
cpu, instance #505
cpu, instance #506
cpu, instance #507
cpu, instance #508
cpu, instance #509
cpu, instance #510
cpu, instance #511
cpu, instance #512
pci, instance #0
    pci, instance #0
        pci, instance #2
            pci, instance #3
                LSI,sas, instance #0
                    tape (driver not attached)
                    disk (driver not attached)
                    iport, instance #7
                    iport, instance #3
                    iport, instance #5
                    iport, instance #6
                    iport, instance #4
            pci, instance #4
                network, instance #0
                network, instance #1
            pci, instance #5
            pci, instance #6
                pci, instance #8
                    display, instance #0
            pci, instance #7
                pci, instance #9
                    usb, instance #0
                    usb, instance #1
                    usb (driver not attached)
                        hub (driver not attached)
                            hub (driver not attached)
                                storage (driver not attached)
                                    disk (driver not attached)
                            device (driver not attached)
                                keyboard (driver not attached)
                                mouse (driver not attached)
                        hub (driver not attached)
    pci, instance #1
        pci, instance #10
            pci, instance #11
            pci, instance #12
            pci, instance #13
            pci, instance #14
pci, instance #1
    pci, instance #15
        pci, instance #17
            pci, instance #18
            pci, instance #19
            pci, instance #20
    pci, instance #16
        pci, instance #21
            pci, instance #22
            pci, instance #23
                pci, instance #25
                    pci, instance #26
                        network, instance #0
                        network, instance #1
                    pci, instance #27
                        SUNW,emlxs, instance #0
                            fp (driver not attached)
                                disk (driver not attached)
                                tape (driver not attached)
                            fp, instance #8
                        SUNW,emlxs, instance #1
                            fp (driver not attached)
                                disk (driver not attached)
                                tape (driver not attached)
                            fp, instance #1
            pci, instance #24
            pci, instance #28
pci, instance #2
    pci, instance #29
        pci, instance #31
            pci, instance #32
            pci, instance #33
                pci, instance #35
                    pci, instance #36
                        network, instance #2
                        network, instance #3
                    pci, instance #37
                        SUNW,emlxs, instance #2
                            fp (driver not attached)
                                disk (driver not attached)
                                tape (driver not attached)
                            fp, instance #3
                        SUNW,emlxs, instance #3
                            fp (driver not attached)
                                disk (driver not attached)
                                tape (driver not attached)
                            fp, instance #4
            pci, instance #34
    pci, instance #30
        pci, instance #38
            pci, instance #39
                pci, instance #41
                    pci, instance #42
                        network, instance #4
                        network, instance #5
                    pci, instance #43
                        SUNW,emlxs, instance #4
                            fp (driver not attached)
                                disk (driver not attached)
                                tape (driver not attached)
                            fp, instance #7
                        SUNW,emlxs, instance #5
                            fp (driver not attached)
                                disk (driver not attached)
                                tape (driver not attached)
                            fp, instance #9
            pci, instance #40
                network, instance #2
                network, instance #3
            pci, instance #44
pci, instance #3
    pci, instance #45
        pci, instance #47
            pci, instance #48
                LSI,sas, instance #1
                    tape (driver not attached)
                    disk (driver not attached)
                    iport, instance #8
                    iport, instance #9
                    iport, instance #10
                    iport, instance #11
                    iport, instance #2
```

```
        pci, instance #49
          pci, instance #51
            pci, instance #52
              network, instance #6
              network, instance #7
            pci, instance #53
              SUNW,emlxs, instance #6
                fp (driver not attached)
                  disk (driver not attached)
                  tape (driver not attached)
                fp, instance #13
              SUNW,emlxs, instance #7
                fp (driver not attached)
                  disk (driver not attached)
                  tape (driver not attached)
                fp, instance #12
        pci, instance #50
        pci, instance #54
    pci, instance #46
      pci, instance #55
        pci, instance #56
        pci, instance #57
        pci, instance #58
        pci, instance #59
          network, instance #0
          network, instance #1
  niu, instance #0
  niu, instance #1
  niu, instance #2
  niu, instance #3
  pci-performance-counters, instance #0
  pci-performance-counters, instance #1
  pci-performance-counters, instance #2
  pci-performance-counters, instance #3
  ramdisk-root, instance #0 (driver not attached)
  os-io (driver not attached)
  iscsi, instance #0
  pseudo, instance #0
```

/etc/project – nodes 1..27

```
system:0::::
user.root:1::::
noproject:2::::
default:3::::
group.staff:10::::
elcap:100:ELCAP:oracle::process.max-sem-
nsems=(priv,512,deny);project.max-msg-ids=(priv,4096,deny);project.max-
sem-ids=(priv,32768,deny);project.max-shm-
ids=(priv,4096,deny);project.max-shm-memory=(priv,549755813888,deny)
```

/etc/system – nodes 1..27

```
*ident	"@(#)system	1.18	97/06/27 SMI" /* SVR4 1.5 */
*
* SYSTEM SPECIFICATION FILE
*

* moddir:
*
*	Set the search path for modules.  This has a format similar to the
*	csh path variable. If the module isn't found in the first directory
*	it tries the second and so on. The default is /kernel /usr/kernel
*
*	Example:
*		moddir: /kernel /usr/kernel /other/modules



* root device and root filesystem configuration:
*
*	The following may be used to override the defaults provided by
*	the boot program:
*
*	rootfs:			Set the filesystem type of the root.
*
*	rootdev:	Set the root device.  This should be a fully
*			expanded physical pathname.  The default
is the
*			physical pathname of the device where the
boot
*			program resides.  The physical pathname is
*			highly platform and configuration
dependent.
*
*	Example:
*		rootfs:ufs
*		rootdev:/sbus@1,f8000000/esp@0,800000/sd@3,0:a
*
*	(Swap device configuration should be specified in /etc/vfstab.)



* exclude:
*
*	Modules appearing in the moddir path which are NOT to be
loaded,
*	even if referenced. Note that `exclude' accepts either a module
name,
*	or a filename which includes the directory.
*
*	Examples:
*		exclude: win
*		exclude: sys/shmsys



* forceload:
*
*	Cause these modules to be loaded at boot time, (just before
mounting
*	the root filesystem) rather than at first reference. Note that
*	forceload expects a filename which includes the directory. Also
*	note that loading a module does not necessarily imply that it will
*	be installed.
*
*	Example:
*		forceload: drv/foo



* set:
*
*	Set an integer variable in the kernel or a module to a new value.
*	This facility should be used with caution.  See system(4).
*
*	Examples:
*
*	To set variables in 'unix':
*
*		set nautopush=32
*		set maxusers=40
*
*	To set a variable named 'debug' in the module named
'test_module'
*
*		set test_module:debug = 0x13

*************************************************
*
* /etc/system ademdum added by SAE's Jumpstart
* at OS install time.
*

*
* endit

*
* set a few lvm params we like
*
* faster resyncs!
set md_mirror:md_resync_bufsz = 2048
*
* less than 50% metadb quorum okay!
set md:mirrored_root_flag=1
*
* end lvm settings we like
*
** For TPC-C
exclude: ehci
exclude: uhci
exclude: hubd

set rlim_fd_cur=1024
set hires_tick=1
set lgrp_mem_pset_aware=1
set segspt_minfree=0x80000
# set to 1G, since otherwise it is 60G
set swapfs_minfree=0x20000
set maxphys=1048576
set autoup=3000
set ip:ip_squeue_bind = 0

* Settings for LP for Kmem
*set segkmem_lpsize = 0x400000
```

```
* lockstat shows extra frame in most kernel call stacks, truncates others to a single frame
set profile:profile_aframes = 4

* Workaround to avoid fast track cache px_dvma_map_fast (Paul Riethmuller)
*set px:px_dvma_page_cache_clustsz = 0

* Disable Halt Idle CPUs
* set enable_halt_idle_cpus = 0

* Enable MPO Debug
*set sun4v_mpo_debug = 1

* Workaround for USB interrupt issue.  Keep excludes, but keep OBP as well
set force_domaining_disabled = 1

* Reduce retained memory, djm 8/6/10
* default 2% of memory, so 10G
set bufhwm=100000
* default 1/64 of memory, so 8G.  desfree and minfree derive from this.
set lotsfree=131072

* turn off kernel cage
set kernel_cage_enable=0
```

/etc/user_attr – nodes 1..27

```
#
# Copyright 2007 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
# /etc/user_attr
#
# execution attributes for profiles. see user_attr(4)
#
#ident	"@(#)user_attr	1.1	07/01/31 SMI"
#
#
adm::::profiles=Log Management
lp::::profiles=Printer Management
postgres::::type=role;profiles=Postgres Administration,All
root::::auths=solaris.*,solaris.grant;profiles=Web Console Management,All;lock_after_retries=no;min_label=admin_low;clearance=admin_high
oracle::::project=elcap
```

sd.conf – nodes 1..27

```
#
# Copyright 2009 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
#ident	"@(#)sd.conf	1.11	09/04/15 SMI"

name="sd" class="scsi" class_prop="atapi"
	target=0 lun=0;

name="sd" class="scsi" class_prop="atapi"
	target=1 lun=0;

name="sd" class="scsi" class_prop="atapi"
	target=2 lun=0;

name="sd" class="scsi" class_prop="atapi"
	target=3 lun=0;

name="sd" class="scsi"
	target=4 lun=0;

name="sd" class="scsi"
	target=5 lun=0;

name="sd" class="scsi"
	target=6 lun=0;

name="sd" class="scsi"
	target=8 lun=0;

name="sd" class="scsi"
	target=9 lun=0;

name="sd" class="scsi"
	target=10 lun=0;

name="sd" class="scsi"
	target=11 lun=0;

name="sd" class="scsi"
	target=12 lun=0;

name="sd" class="scsi"
	target=13 lun=0;

name="sd" class="scsi"
	target=14 lun=0;

name="sd" class="scsi"
	target=15 lun=0;
#
# Enable Target 7 for the mpt SCSI/SAS/SATA driver.  Target 7 has
# traditionally been reserved for legacy SCSI HBAs, but SAS controllers
# supported by the mpt driver do not use target 7 for that purpose.
# Enabling Target 7 allows the use of 8 disks on those controllers.
#
name="sd" parent="mpt"
	target=7 lun=0;


#
# The following stub node is needed for pathological bottom-up
# devid resolution on a self-identifying transport.
#
name="sd" class="scsi-self-identifying";

sd-config-list = "SUN     COMSTAR","throttle-max:12";
```

ssd.conf – nodes 1..27

```
#
# Copyright 2009 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
#ident	"@(#)ssd.conf	1.15	09/04/15 SMI"

name="ssd" parent="sf" target=0;
name="ssd" parent="fp" target=0;


#
# The following stub node is needed for pathological bottom-up
# devid resolution on a self-identifying transport.
#
name="ssd" class="scsi-self-identifying";

name="ssd" parent="ifp" target=127;

ssd-config-list = "SUN     COMSTAR","throttle-max:12";
```

interrupts.ksh – nodes 1..27

```
#!/bin/ksh

# emlxs start at 256-263, but numbers are hex, so 100-107
EMLXS0=80
EMLXS1=81
EMLXS2=100
EMLXS3=101
EMLXS4=102
EMLXS5=103
EMLXS6=180
EMLXS7=181

# ixgbe are 264-271, but still hex
IXGBE0=108
IXGBE1=109
IXGBE2=10A
IXGBE3=10B
IXGBE4=10C
IXGBE5=10D
IXGBE6=10E
IXGBE7=10F

# nxge and qlc are 272-279
E1000G0=110
E1000G1=111
E1000G2=112

map_lf()
{
 if [ $EMLXS -ne 0 ]
 then
   echo "Setting  Emulex Lightning Flash Device Interrupt mapping"
   sleep 2
   #emlx0
   for i in `grep "emlxs#0" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }'`
   do
     pcitool /pci@500 -i ino=${i} -w cpu=$EMLXS0
   done
```

```
    #emlx1
    for i in `grep "emlxs#1" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }'`
    do
      pcitool /pci@500 -i ino=${i} -w cpu=$EMLXS1
    done
    #emlx2
    for i in `grep "emlxs#2" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }'`
    do
      pcitool /pci@600 -i ino=${i} -w cpu=$EMLXS2
    done
    #emlx3
    for i in `grep "emlxs#3" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }'`
    do
      pcitool /pci@600 -i ino=${i} -w cpu=$EMLXS3
    done
    #emlx4
    for i in `grep "emlxs#4" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }'`
    do
      pcitool /pci@600 -i ino=${i} -w cpu=$EMLXS4
    done
    #emlx5
    for i in `grep "emlxs#5" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }'`
    do
      pcitool /pci@600 -i ino=${i} -w cpu=$EMLXS5
    done
    #emlx6
    for i in `grep "emlxs#6" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }'`
    do
      pcitool /pci@700 -i ino=${i} -w cpu=$EMLXS6
    done
    #emlx7
    for i in `grep "emlxs#7" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }'`
    do
      pcitool /pci@700 -i ino=${i} -w cpu=$EMLXS7
    done
  fi
}

map_log()
{
  echo "Setting Log Device Interrupt mapping"
  sleep 2
  if [ $EMLXS -ne 0 ]
  then
    INDX=0
    for q in 0 1; do
      IN=`grep "qlc#$q" /tmp/mdb.$$ | head -1 | awk '{ print $5 }' | awk -Fx '{ print $2 }'`
      if [ "${IN}X" != "X" ]; then
        INO[$INDX]=$IN
                INDX=`expr $INDX + 1`
      fi
    done
    #qlc0
    pcitool /pci@500 -i ino=${INO[0]} -w cpu=$QLC0
    #qlc1
    pcitool /pci@500 -i ino=${INO[1]} -w cpu=$QLC1
  fi

}
map_network()
{
  echo "Setting Network Interrupt mapping"
  sleep 2

  # 10Gb RAC interconnect ixgbe0
  # Put on last 8 threads because map to pci@700
  C=0
  grep "ixgbe#0" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }' > /tmp/ino.$$
  for n in  `cat /tmp/ino.$$`
  do
    INO[$C]=${n}
    ((C=C+1))
  done
  pcitool /pci@700 -i ino=${INO[0]} -w cpu=$IXGBE0
  pcitool /pci@700 -i ino=${INO[1]} -w cpu=$IXGBE0
  pcitool /pci@700 -i ino=${INO[2]} -w cpu=$IXGBE1
  pcitool /pci@700 -i ino=${INO[3]} -w cpu=$IXGBE1
  pcitool /pci@700 -i ino=${INO[4]} -w cpu=$IXGBE2
  pcitool /pci@700 -i ino=${INO[5]} -w cpu=$IXGBE2
  pcitool /pci@700 -i ino=${INO[6]} -w cpu=$IXGBE3
  pcitool /pci@700 -i ino=${INO[7]} -w cpu=$IXGBE3
  pcitool /pci@700 -i ino=${INO[8]} -w cpu=$IXGBE4
  pcitool /pci@700 -i ino=${INO[9]} -w cpu=$IXGBE4
  pcitool /pci@700 -i ino=${INO[10]} -w cpu=$IXGBE5
  pcitool /pci@700 -i ino=${INO[11]} -w cpu=$IXGBE5
  pcitool /pci@700 -i ino=${INO[12]} -w cpu=$IXGBE6
  pcitool /pci@700 -i ino=${INO[13]} -w cpu=$IXGBE6
  pcitool /pci@700 -i ino=${INO[14]} -w cpu=$IXGBE7
  pcitool /pci@700 -i ino=${INO[15]} -w cpu=$IXGBE7
  rm /tmp/ino.$$

  # 1Gb client nxge0-3
  C=0
  egrep "e1000g#0|e1000g#1|e1000g#2" /tmp/mdb.$$ | awk '{ print $5 }' | awk -Fx '{ print $2 }' > /tmp/ino.$$
  for n in  `cat /tmp/ino.$$`
  do
    INO[$C]=${n}
    ((C=C+1))
  done
  pcitool /pci@500 -i ino=${INO[0]} -w cpu=$E1000G0
  pcitool /pci@500 -i ino=${INO[1]} -w cpu=$E1000G1
  pcitool /pci@600 -i ino=${INO[2]} -w cpu=$E1000G2
  rm /tmp/ino.$$
}

check_intr()
{
  echo "LF links"
  echo "      Device   Type    MSG #  State   INO     Mondo    Shared    Pil    CPU"

  if [ $EMLXS -ne 0 ]
  then # we're using emulex
    for e in 0 1 2 3 4 5 6 7; do
      grep "emlxs#$e" /tmp/mdb.$$
    done
  else # we're using qlc
    for q in 0 1 6 7 ; do
      grep "qlc#$q" /tmp/mdb.$$ | head -1
    done
  fi

  #echo
  #echo
  #echo "logs"
  #echo "      Device   Type    MSG #  State   INO     Mondo    Shared    Pil    CPU"

  if [ $EMLXS -ne 0 ]
  then # we're using emulex
    for q in 0 1 ; do
      grep "qlc#$q" /tmp/mdb.$$ | head -1
    done
  #else
  #  for q in 2 3 4 5; do
  #    grep "qlc#$q" /tmp/mdb.$$ | head -1
  #  done
  fi
#
  echo
  echo
  echo NW
  echo "      Device   Type    MSG #  State   INO     Mondo    Shared    Pil    CPU"

  for n in 0 1 2; do
    grep "e1000g#$n" /tmp/mdb.$$
  done
  grep "ixgbe#0" /tmp/mdb.$$


  echo
  echo
  echo "Existing PSRSETS"
  psrset
}

do_mdb()
{
echo ::interrupts | mdb -k 2>&1 | grep -v "failed to read" > /tmp/mdb.$$
}

usage()
{
```

```
 echo "interrupts.sh [ -check | -map ]"
}

# Functions
if [ $# -eq 0 ]; then
       usage
       exit
fi

while [ $# -ne 0 ]; do
 case "$1" in
   -map)
    shift
    do_mdb
    EMLXS=`grep emlxs /tmp/mdb.$$ | wc -l`
    echo $EMLXS
    map_lf
    #map_log
    map_network
    rm /tmp/mdb.$$
    exit
    ;;
   -check)
    shift
    do_mdb
    EMLXS=`grep emlxs /tmp/mdb.$$ | wc -l`
    check_intr
    rm /tmp/mdb.$$
    exit
    ;;
   -clean)
    lockfs -fa
    exit
    ;;
   *)
    echo "option $1 not recognized"
    usage
    exit
    ;;
 esac
 shift
done
```

neworaset.sh – nodes 1..27

```
#!/bin/ksh

# setup:
#bd 0:
#0 clock
#1-127 listener 1

#bd 1:
#130-255 listener 2

#bd 2: (cage)
#128-129 256-259 384-385 emlxs
#264-271 ixgbe
#272-274 e1000g
#280-287 lgwr (turn off 280-286)
#288-299 lms
#300-331 ora_ (except lms/lgwr)
#332-383 system partition

#bd 3:
#386-511 listener 3

CLEAN=$1

# first reenable all psrs and remove all psrsets
psradm -n -a

set `echo 0; psrset | nawk '{print $4 '} | sed "s/://"`
shift
while [ $# -ne 0 ]; do
   psrset -d $1
   shift
done

# stop if only want to clean

if [ "x$CLEAN" == "xclean" -o "x$CLEAN" == "x-clean" ]; then
   exit
fi

# now turn off cpus and interrupts for lgwr and lms/lmd
psradm -f 280-286
psradm -i 287-295

# now set interrupts based on local script
/mjhtools/interrupts.ksh -map

# create psrsets for system stuff
psrset -c 0
psrset -c 128-129 256-259 384-385
psrset -c 264-271
psrset -c 272-274
psrset -c 287
psrset -c 288-299
psrset -c 300-331

# now 3 listener psrsets (8-10)
psrset -c 1-127
psrset -c 130-255
psrset -c 386-511

# now move in lgwr
psrset -b 5 `ps -eaf | grep ora_lgw | grep -v grep | nawk '{print $2}'`

# Pset for lms/lmd
for p in `ps -eaf | grep ora_lms | grep -v grep | nawk '{print $2}'`; do
   psrset -b 6 $p
done

psrset -b 7 `ps -eaf | grep ora_ | grep -v grep | grep -v ora_lgw | grep -v
ora_lms | nawk '{print $2}'`

# finally the listeners
LSNR=8
for p in `ps -eaf | grep tnslsnr | grep -v grep | grep -v SCAN | nawk '{print
$2}'`;do
   psrset -b $LSNR $p
   LSNR=`expr $LSNR + 1`
done

# Now set the priority on things
# All oracle to FX 17.  This should be inherited from the listeners
/bin/priocntl -s -c FX -m 17 -p 17 -i pid `pgrep -f ora`

# lgwr to RT
/bin/priocntl -s -c RT -p 1 -i pid `pgrep -f ora_l`

# vktm to FX 19
/bin/priocntl -s -c FX -m 19 -p 19 -i pid `pgrep -f ora_vktm`
```

uname -a – node2 (same for all nodes 1..27)

```
SunOS db2 5.10 Generic_142909-17 sun4v sparc sun4v
```

/etc/release – nodes 1..27

```
                 Oracle Solaris 10 9/10 s10s_u9wos_14a SPARC
     Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
                           Assembled 11 August 2010
```

Oracle DBMS version – nodes 1..27

```
oracle@db1> sqlplus tpcc/tpcc

SQL*Plus: Release 11.2.0.1.0 Production on Wed Oct 6 14:29:17 2010

Copyright (c) 1982, 2009, Oracle.  All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, Real Application Clusters, Data Mining and Real
Application Testing options
```

Oracle Clusterware version – nodes 1..27

```
root@db1> crsctl query crs activeversion
Oracle Clusterware active version on the cluster is [11.2.0.1.0]
```

prun.ora – nodes 1..27

```
compatible = 11.2.0.0.0
aq_tm_processes = 0
db_file_multiblock_read_count = 1
control_files =
(/export/home/oracle/tpcc_disks_recap/control_003,/export/home/oracle/tpcc
_disks_recap/control_004)
db_16k_cache_size  = 100G
db_8k_cache_size  = 4G
db_block_size = 4096
db_cache_size   = 20G
db_keep_cache_size=296G
db_recycle_cache_size=15G
shared_pool_size=26G
db_files=14000
db_name = recap
```

```
log_buffer = 10485760
plsql_optimize_level=2
timed_statistics = true
fast_start_mttr_target=0
java_pool_size = 0
job_queue_processes=0
log_checkpoint_interval=0
log_checkpoint_timeout = 1700
log_checkpoints_to_alert = TRUE
optimizer_mode = CHOOSE
query_rewrite_enabled = FALSE
replication_dependency_tracking = FALSE
dml_locks = 500
transactions = 1000
undo_management = auto
undo_retention = 2
processes = 1400
cluster_database = true
cluster_database_instances=27
parallel_max_servers = 0
parallel_min_servers = 0
recovery_parallelism = 32
resource_manager_plan=""
transactions_per_rollback_segment=1
db_writer_processes=32
db_block_checking = FALSE
db_block_checksum = FALSE
trace_enabled = FALSE
parallel_execution_message_size=65536
gcs_server_processes=12
db_cache_advice=off
_lm_file_affinity="29,56-488=1:30,489-921=2:31,922-1354=3:32,1355-
1787=4:33,1788-2220=5:34,2221-2653=6:35,2654-3086=7:36,3087-
3519=8:37,3520-3952=9:38,3953-4385=10:39,4386-4818=11:40,4819-
5251=12:41,5252-5684=13:42,5685-6117=14:43,6118-6550=15:44,6551-
6983=16:45,6984-7416=17:46,7417-7849=18:47,7850-8282=19:48,8283-
8715=20:49,8716-9148=21:50,9149-9581=22:51,9582-10014=23:52,10015-
10447=24:53,10448-10880=25:54,10881-11313=26:55,11314-11746=27"

sessions = 1500
#_inline_sql_in_plsql=true
# _fast_cursor_reexecute = true
# _undo_autotune=false
#_enable_obj_queues = false
# _fg_sync_sleep_usecs=1000
# _log_parallelism_max = 8

#_enable_list_io = TRUE

# _resource_manager_always_off=TRUE
# _resource_manager_always_on=FALSE
# _timer_precision=100
statistics_level=BASIC
# _awr_restrict_mode=TRUE

cpu_count=128
# _immediate_commit_propagation=false
local_listener = all_listeners
# _ksxp_reaping=256
# _lm_tx_delta=32
# _rollback_segment_count=1000
# _db_block_prefetch_limit = 0

# Debug spinning issue
event = "10994 trace name context forever, level 1000"

# Help HW contention?
# _smu_debug_mode=134219268

# Debug for ORA-00240: control file enqueue held for more than 120
seconds
# event = "10474 trace name context forever, level 1"

# _lm_rcvr_hang_allow_time=300
# _lm_rcvr_hang_kill=FALSE
```

/etc/vfstab – nodes 1..27

```
#device         device          mount                   FS
        fsck    mount   mount
#to mount to fsck               point           type    pass
        at boot options
#
fd      -       /dev/fd fd      -       no      -
/proc   -       /proc   proc    -       no      -
/dev/dsk/c0t5000C5001CB428AFd0s1        -       -       swap
        -       no      -
# add more swap - PHYSICAL DISKS HDD2 and HDD3 in that order:
/dev/dsk/c0t5000C5001CB49B1Bd0s0 - - swap - no -
/dev/dsk/c0t5000C5001CB4300Bd0s0 - - swap - no -
/dev/dsk/c0t5000C5001CB428AFd0s0
        /dev/rdsk/c0t5000C5001CB428AFd0s0       /       ufs
        1       no      -
/dev/dsk/c0t5000C5001CB428AFd0s4
        /dev/rdsk/c0t5000C5001CB428AFd0s4       /export ufs
        2       yes     -
/devices        -       /devices        devfs   -       no      -
sharefs -       /etc/dfs/sharetab       sharefs -       no
        -
ctfs    -       /system/contract        ctfs    -       no
        -
objfs   -       /system/object  objfs   -       no
        -
swap    -       /tmp    tmpfs   -       yes     -
```

/etc/hosts – nodes 1..27

```
#
# Internet host table
#
::1     localhost
127.0.0.1       localhost
10.196.100.2            db2     loghost
#
# NIS servers for reference
10.196.232.10           minister196
10.196.232.30           onager196
10.196.0.2 saegate196
# endit
### everything after this is managed from CENTRAL FILE don't make
changes
### below here without expecting them to get blown away by heartless
### and uncaring admin at the next update!!  ;-)

#####################################################################
####################
#
# Begin ReCap DB host table addendum!!  The MASTER lives in:
#
# /export/ptmp/recap/ewt/recap_host_addendum.txt
#
# This file WILL have hosts that have EVERYTHING listed in it - all drivers
# too, even though THIS node will only be able to see it's associated "three"..
# SOOO much easier to simply edit one file, and use
/opt/SUNWcluster/bin/cssh to
# edit every node concurrently to implement changes..   ewt 7.17.2010
#

#####################################################################
####################
#
# First, despite having naming services, we should INSURE that all nodes
# have local knowledge of all OTHER nodes, "Just in case".. Yes, that's
# paranoia you hear in my voice...   ewt 7.19.2010
# All nodes SHOULD be able to see all other nodes!!
# Be careful about updating these in NIS without updating these
# local records!!  ;-)  (doing my best to keep things confusing!)
#
10.196.100.1    db1     # ReCap: Database node number 1 (db1:igb0)
10.196.100.2    db2     # ReCap: Database node number 2 (db2:igb0)
10.196.100.3    db3     # ReCap: Database node number 3 (db3:igb0)
10.196.100.4    db4     # ReCap: Database node number 4 (db4:igb0)
10.196.100.5    db5     # ReCap: Database node number 5 (db5:igb0)
10.196.100.6    db6     # ReCap: Database node number 6 (db6:igb0)
10.196.100.7    db7     # ReCap: Database node number 7 (db7:igb0)
10.196.100.8    db8     # ReCap: Database node number 8 (db8:igb0)
10.196.100.9    db9     # ReCap: Database node number 9 (db9:igb0)
10.196.100.10   db10    # ReCap: Database node number 10 (db10:igb0)
10.196.100.11   db11    # ReCap: Database node number 11 (db11:igb0)
10.196.100.12   db12    # ReCap: Database node number 12 (db12:igb0)
10.196.100.13   db13    # ReCap: Database node number 13 (db13:igb0)
10.196.100.14   db14    # ReCap: Database node number 14 (db14:igb0)
10.196.100.15   db15    # ReCap: Database node number 15 (db15:igb0)
10.196.100.16   db16    # ReCap: Database node number 16 (db16:igb0)
10.196.100.17   db17    # ReCap: Database node number 17 (db17:igb0)
10.196.100.18   db18    # ReCap: Database node number 18 (db18:igb0)
10.196.100.19   db19    # ReCap: Database node number 19 (db19:igb0)
10.196.100.20   db20    # ReCap: Database node number 20 (db20:igb0)
10.196.100.21   db21    # ReCap: Database node number 21 (db21:igb0)
10.196.100.22   db22    # ReCap: Database node number 22 (db22:igb0)
10.196.100.23   db23    # ReCap: Database node number 23 (db23:igb0)
10.196.100.24   db24    # ReCap: Database node number 24 (db24:igb0)
10.196.100.25   db25    # ReCap: Database node number 25 (db25:igb0)
10.196.100.26   db26    # ReCap: Database node number 26 (db26:igb0)
10.196.100.27   db27    # ReCap: Database node number 27 (db27:igb0)
10.196.100.28   db28    # ReCap: Database node number 28 (db28:igb0)
```

```
10.196.100.29   db29          # ReCap: Database node number 29 (db29:igb0)
10.196.100.30   db30          # ReCap: Database node number 30 (db30:igb0)
#
# endit:db node primaries..


####################################################################
##################
#
# For the SAME reasons as above, all nodes should know about all
# other nodes "VIP", or Virtual IP..    ewt  7.19.2010
# Be careful about updating these in NIS without updating these
# local records!!  ;-)  (doing my best to keep things confusing!)
#
10.196.100.101   db1-vip       # ReCap: Database node number 1 VIP
10.196.100.102   db2-vip       # ReCap: Database node number 2 VIP
10.196.100.103   db3-vip       # ReCap: Database node number 3 VIP
10.196.100.104   db4-vip       # ReCap: Database node number 4 VIP
10.196.100.105   db5-vip       # ReCap: Database node number 5 VIP
10.196.100.106   db6-vip       # ReCap: Database node number 6 VIP
10.196.100.107   db7-vip       # ReCap: Database node number 7 VIP
10.196.100.108   db8-vip       # ReCap: Database node number 8 VIP
10.196.100.109   db9-vip       # ReCap: Database node number 9 VIP
10.196.100.110   db10-vip      # ReCap: Database node number 10 VIP
10.196.100.111   db11-vip      # ReCap: Database node number 11 VIP
10.196.100.112   db12-vip      # ReCap: Database node number 12 VIP
10.196.100.113   db13-vip      # ReCap: Database node number 13 VIP
10.196.100.114   db14-vip      # ReCap: Database node number 14 VIP
10.196.100.115   db15-vip      # ReCap: Database node number 15 VIP
10.196.100.116   db16-vip      # ReCap: Database node number 16 VIP
10.196.100.117   db17-vip      # ReCap: Database node number 17 VIP
10.196.100.118   db18-vip      # ReCap: Database node number 18 VIP
10.196.100.119   db19-vip      # ReCap: Database node number 19 VIP
10.196.100.120   db20-vip      # ReCap: Database node number 20 VIP
10.196.100.121   db21-vip      # ReCap: Database node number 21 VIP
10.196.100.122   db22-vip      # ReCap: Database node number 22 VIP
10.196.100.123   db23-vip      # ReCap: Database node number 23 VIP
10.196.100.124   db24-vip      # ReCap: Database node number 24 VIP
10.196.100.125   db25-vip      # ReCap: Database node number 25 VIP
10.196.100.126   db26-vip      # ReCap: Database node number 26 VIP
10.196.100.127   db27-vip      # ReCap: Database node number 27 VIP
10.196.100.128   db28-vip      # ReCap: Database node number 28 VIP
10.196.100.129   db29-vip      # ReCap: Database node number 29 VIP
10.196.100.130   db30-vip      # ReCap: Database node number 30 VIP
#
# SCAN address of all of the above Virtual IP's
#
10.196.100.200          scan-27node
10.196.100.201          scan-4node
10.196.100.202  scan-4node-2
10.196.100.203  scan-4node-3
10.196.100.204  scan-4node-4
10.196.100.205  scan-4node-5
#
# endit: db scan virtual IP's


####################################################################
##################
#
# RAC heart beat (igb1) - this is common to all DB nodes and all
# SHOULD be able to see all!!
#
192.168.1.1             db1hb1     # db1 RAC rack HEARTBEAT network (db1:igb1)
192.168.1.2             db2hb1     # db2 RAC rack HEARTBEAT network (db2:igb1)
192.168.1.3             db3hb1     # db3 RAC rack HEARTBEAT network (db3:igb1)
192.168.1.4             db4hb1     # db4 RAC rack HEARTBEAT network (db4:igb1)
192.168.1.5             db5hb1     # db5 RAC rack HEARTBEAT network (db5:igb1)
192.168.1.6             db6hb1     # db6 RAC rack HEARTBEAT network (db6:igb1)
192.168.1.7             db7hb1     # db7 RAC rack HEARTBEAT network (db7:igb1)
192.168.1.8             db8hb1     # db8 RAC rack HEARTBEAT network (db8:igb1)
192.168.1.9             db9hb1     # db9 RAC rack HEARTBEAT network (db9:igb1)
192.168.1.10            db10hb1    # db10 RAC rack HEARTBEAT network (db10:igb1)
192.168.1.11            db11hb1    # db11 RAC rack HEARTBEAT network (db11:igb1)
192.168.1.12            db12hb1    # db12 RAC rack HEARTBEAT network (db12:igb1)
192.168.1.13            db13hb1    # db13 RAC rack HEARTBEAT network (db13:igb1)
192.168.1.14            db14hb1    # db14 RAC rack HEARTBEAT network (db14:igb1)
192.168.1.15            db15hb1    # db15 RAC rack HEARTBEAT network (db15:igb1)
192.168.1.16            db16hb1    # db16 RAC rack HEARTBEAT network (db16:igb1)
192.168.1.17            db17hb1    # db17 RAC rack HEARTBEAT network (db17:igb1)
192.168.1.18            db18hb1    # db18 RAC rack HEARTBEAT network (db18:igb1)
192.168.1.19            db19hb1    # db19 RAC rack HEARTBEAT network (db19:igb1)
192.168.1.20            db20hb1    # db20 RAC rack HEARTBEAT network (db20:igb1)
192.168.1.21            db21hb1    # db21 RAC rack HEARTBEAT network (db21:igb1)
192.168.1.22            db22hb1    # db22 RAC rack HEARTBEAT network (db22:igb1)
192.168.1.23            db23hb1    # db23 RAC rack HEARTBEAT network (db23:igb1)
192.168.1.24            db24hb1    # db24 RAC rack HEARTBEAT network (db24:igb1)
192.168.1.25            db25hb1    # db25 RAC rack HEARTBEAT network (db25:igb1)
192.168.1.26            db26hb1    # db26 RAC rack HEARTBEAT network (db26:igb1)
192.168.1.27            db27hb1    # db27 RAC rack HEARTBEAT network (db27:igb1)
192.168.1.28            db28hb1    # db28 RAC rack HEARTBEAT network (db28:igb1)
192.168.1.29            db29hb1    # db29 RAC rack HEARTBEAT network (db29:igb1)
192.168.1.30            db30hb1    # db30 RAC rack HEARTBEAT network (db30:igb1)
#
# endit: RAC heartbeat interconnect

####################################################################
##################
#
# Recap database servers public network access..  All should be able to
# ping all!!
#
10.137.235.1    db1pub        # db1 Public interface to OWAN.. (db1:igb2)
10.137.235.2    db2pub        # db2 Public interface to OWAN.. (db2:igb2)
10.137.235.3    db3pub        # db3 Public interface to OWAN.. (db3:igb2)
10.137.235.4    db4pub        # db4 Public interface to OWAN.. (db4:igb2)
10.137.235.5    db5pub        # db5 Public interface to OWAN.. (db5:igb2)
10.137.235.6    db6pub        # db6 Public interface to OWAN.. (db6:igb2)
10.137.235.7    db7pub        # db7 Public interface to OWAN.. (db7:igb2)
10.137.235.8    db8pub        # db8 Public interface to OWAN.. (db8:igb2)
10.137.235.9    db9pub        # db9 Public interface to OWAN.. (db9:igb2)
10.137.235.10   db10pub       # db10 Public interface to OWAN.. (db10:igb2)
10.137.235.11   db11pub       # db11 Public interface to OWAN.. (db11:igb2)
10.137.235.12   db12pub       # db12 Public interface to OWAN.. (db12:igb2)
10.137.235.13   db13pub       # db13 Public interface to OWAN.. (db13:igb2)
10.137.235.14   db14pub       # db14 Public interface to OWAN.. (db14:igb2)
10.137.235.15   db15pub       # db15 Public interface to OWAN.. (db15:igb2)
10.137.235.16   db16pub       # db16 Public interface to OWAN.. (db16:igb2)
10.137.235.17   db17pub       # db17 Public interface to OWAN.. (db17:igb2)
10.137.235.18   db18pub       # db18 Public interface to OWAN.. (db18:igb2)
10.137.235.19   db19pub       # db19 Public interface to OWAN.. (db19:igb2)
10.137.235.20   db20pub       # db20 Public interface to OWAN.. (db20:igb2)
10.137.235.21   db21pub       # db21 Public interface to OWAN.. (db21:igb2)
10.137.235.22   db22pub       # db22 Public interface to OWAN.. (db22:igb2)
10.137.235.23   db23pub       # db23 Public interface to OWAN.. (db23:igb2)
10.137.235.24   db24pub       # db24 Public interface to OWAN.. (db24:igb2)
10.137.235.25   db25pub       # db25 Public interface to OWAN.. (db25:igb2)
10.137.235.26   db26pub       # db26 Public interface to OWAN.. (db26:igb2)
```

```
10.137.235.27   db27pub        # db27 Public interface to OWAN..
(db27:igb2)
10.137.235.28   db28pub        # db28 Public interface to OWAN..
(db28:igb2)
10.137.235.29   db29pub        # db29 Public interface to OWAN..
(db29:igb2)
10.137.235.30   db30pub        # db30 Public interface to OWAN..
(db30:igb2)
#
# endit: public interfaces..

################################################################
##################
#
# RAC data traffic (10GbE) - this is common to all DB nodes and all
# SHOULD be able to see all!!
#

192.168.100.1   db1d1        # db1 RAC rack DATA network (db1:ixgbe0)
192.168.100.2   db2d1        # db2 RAC rack DATA network (db2:ixgbe0)
192.168.100.3   db3d1        # db3 RAC rack DATA network (db3:ixgbe0)
192.168.100.4   db4d1        # db4 RAC rack DATA network (db4:ixgbe0)
192.168.100.5   db5d1        # db5 RAC rack DATA network (db5:ixgbe0)
192.168.100.6   db6d1        # db6 RAC rack DATA network (db6:ixgbe0)
192.168.100.7   db7d1        # db7 RAC rack DATA network (db7:ixgbe0)
192.168.100.8   db8d1        # db8 RAC rack DATA network (db8:ixgbe0)
192.168.100.9   db9d1        # db9 RAC rack DATA network (db9:ixgbe0)
192.168.100.10  db10d1        # db10 RAC rack DATA network
(db10:ixgbe0)
192.168.100.11  db11d1        # db11 RAC rack DATA network
(db11:ixgbe0)
192.168.100.12  db12d1        # db12 RAC rack DATA network
(db12:ixgbe0)
192.168.100.13  db13d1        # db13 RAC rack DATA network
(db13:ixgbe0)
192.168.100.14  db14d1        # db14 RAC rack DATA network
(db14:ixgbe0)
192.168.100.15  db15d1        # db15 RAC rack DATA network
(db15:ixgbe0)
192.168.100.16  db16d1        # db16 RAC rack DATA network
(db16:ixgbe0)
192.168.100.17  db17d1        # db17 RAC rack DATA network
(db17:ixgbe0)
192.168.100.18  db18d1        # db18 RAC rack DATA network
(db18:ixgbe0)
192.168.100.19  db19d1        # db19 RAC rack DATA network
(db19:ixgbe0)
192.168.100.20  db20d1        # db20 RAC rack DATA network
(db20:ixgbe0)
192.168.100.21  db21d1        # db21 RAC rack DATA network
(db21:ixgbe0)
192.168.100.22  db22d1        # db22 RAC rack DATA network
(db22:ixgbe0)
192.168.100.23  db23d1        # db23 RAC rack DATA network
(db23:ixgbe0)
192.168.100.24  db24d1        # db24 RAC rack DATA network
(db24:ixgbe0)
192.168.100.25  db25d1        # db25 RAC rack DATA network
(db25:ixgbe0)
192.168.100.26  db26d1        # db26 RAC rack DATA network
(db26:ixgbe0)
192.168.100.27  db27d1        # db27 RAC rack DATA network
(db27:ixgbe0)
192.168.100.28  db28d1        # db28 RAC rack DATA network
(db28:ixgbe0)
192.168.100.29  db29d1        # db29 RAC rack DATA network
(db29:ixgbe0)
192.168.100.30  db30d1        # db30 RAC rack DATA network
(db30:ixgbe0)
#
# endit: RAC data interconnect

################################################################
##################
#
# Private Point to Point (p2p) connections between ClientX nodes and
# db[1-27] nodes.  Because this are POINT TO POINT, only the nodes in
# smaller subsets should be able to ping to the DB node listed..
#

# db1 client connections:
192.168.111.1                  db1client1 # p2p, DB1 and Client1,
(db1:e1000g0)
192.168.111.2                  client1db1 # p2p, Client1 and DB1,
(client1:igb1)
192.168.112.1                  db1client2 # p2p, DB1 and Client2,
(db1:e1000g1)
192.168.112.2                  client2db1 # p2p, Client2 and DB1,
(client2:igb1)
192.168.113.1                  db1client3 # p2p, DB1 and Client3,
(db1:e1000g2)
192.168.113.2                  client3db1 # p2p, Client3 and DB1,
(client3:igb1)
#
# db2 client connections:
192.168.111.1                  db2client4 # p2p, DB2 and Client4,
(db2:e1000g0)
192.168.111.2                  client4db2 # p2p, Client4 and DB2,
(client4:igb1)
192.168.112.1                  db2client5 # p2p, DB2 and Client5,
(db2:e1000g1)
192.168.112.2                  client5db2 # p2p, Client5 and DB2,
(client5:igb1)
192.168.113.1                  db2client6 # p2p, DB2 and Client6,
(db2:e1000g2)
192.168.113.2                  client6db2 # p2p, Client6 and DB2,
(client6:igb1)
#
# db3 client connections:
192.168.111.1                  db3client7 # p2p, DB3 and Client7,
(db3:e1000g0)
192.168.111.2                  client7db3 # p2p, Client7 and DB3,
(client7:igb1)
192.168.112.1                  db3client8 # p2p, DB3 and Client8,
(db3:e1000g1)
192.168.112.2                  client8db3 # p2p, Client8 and DB3,
(client8:igb1)
192.168.113.1                  db3client9 # p2p, DB3 and Client9,
(db3:e1000g2)
192.168.113.2                  client9db3 # p2p, Client9 and DB3,
(client9:igb1)
#
# db4 client connections:
192.168.111.1                  db4client10            # p2p, DB4 and
Client10, (db4:e1000g0)
192.168.111.2                  client10db4            # p2p, Client10 and
DB4, (client10:igb1)
192.168.112.1                  db4client11            # p2p, DB4 and
Client11, (db4:e1000g1)
192.168.112.2                  client11db4            # p2p, Client11 and
DB4, (client11:igb1)
192.168.113.1                  db4client12            # p2p, DB4 and
Client12, (db4:e1000g2)
192.168.113.2                  client12db4            # p2p, Client12 and
DB4, (client12:igb1)
#
# db5 client connections:
192.168.111.1                  db5client13            # p2p, DB5 and
Client13, (db5:e1000g0)
192.168.111.2                  client13db5            # p2p, Client13 and
DB5, (client13:igb1)
192.168.112.1                  db5client14            # p2p, DB5 and
Client14, (db5:e1000g1)
192.168.112.2                  client14db5            # p2p, Client14 and
DB5, (client14:igb1)
192.168.113.1                  db5client15            # p2p, DB5 and
Client15, (db5:e1000g2)
192.168.113.2                  client15db5            # p2p, Client15 and
DB5, (client15:igb1)
#
# db6 client connections:
192.168.111.1                  db6client16            # p2p, DB6 and
Client16, (db6:e1000g0)
192.168.111.2                  client16db6            # p2p, Client16 and
DB6, (client16:igb1)
192.168.112.1                  db6client17            # p2p, DB6 and
Client17, (db6:e1000g1)
192.168.112.2                  client17db6            # p2p, Client17 and
DB6, (client17:igb1)
192.168.113.1                  db6client18            # p2p, DB6 and
Client18, (db6:e1000g2)
192.168.113.2                  client18db6            # p2p, Client18 and
DB6, (client18:igb1)
#
# db7 client connections:
192.168.111.1                  db7client19            # p2p, DB7 and
Client19, (db7:e1000g0)
192.168.111.2                  client19db7            # p2p, Client19 and
DB7, (client19:igb1)
192.168.112.1                  db7client20            # p2p, DB7 and
Client20, (db7:e1000g1)
192.168.112.2                  client20db7            # p2p, Client20 and
DB7, (client20:igb1)
192.168.113.1                  db7client21            # p2p, DB7 and
```

```
Client21, (db7:e1000g2)
192.168.113.2   client21db7     # p2p, Client21 and DB7, (client21:igb1)
#
# db8 client connections:
192.168.111.1   db8client22     # p2p, DB8 and Client22, (db8:e1000g0)
192.168.111.2   client22db8     # p2p, Client22 and DB8, (client22:igb1)
192.168.112.1   db8client23     # p2p, DB8 and Client23, (db8:e1000g1)
192.168.112.2   client23db8     # p2p, Client23 and DB8, (client23:igb1)
192.168.113.1   db8client24     # p2p, DB8 and Client24, (db8:e1000g2)
192.168.113.2   client24db8     # p2p, Client24 and DB8, (client24:igb1)
#
# db9 client connections:
192.168.111.1   db9client25     # p2p, DB9 and Client25, (db9:e1000g0)
192.168.111.2   client25db9     # p2p, Client25 and DB9, (client25:igb1)
192.168.112.1   db9client26     # p2p, DB9 and Client26, (db9:e1000g1)
192.168.112.2   client26db9     # p2p, Client26 and DB9, (client26:igb1)
192.168.113.1   db9client27     # p2p, DB9 and Client27, (db9:e1000g2)
192.168.113.2   client27db9     # p2p, Client27 and DB9, (client27:igb1)
#
# db10 client connections:
192.168.111.1   db10client28    # p2p, DB10 and Client28, (db10:e1000g0)
192.168.111.2   client28db10    # p2p, Client28 and DB10, (client28:igb1)
192.168.112.1   db10client29    # p2p, DB10 and Client29, (db10:e1000g1)
192.168.112.2   client29db10    # p2p, Client29 and DB10, (client29:igb1)
192.168.113.1   db10client30    # p2p, DB10 and Client30, (db10:e1000g2)
192.168.113.2   client30db10    # p2p, Client30 and DB10, (client30:igb1)
#
# db11 client connections:
192.168.111.1   db11client31    # p2p, DB11 and Client31, (db11:e1000g0)
192.168.111.2   client31db11    # p2p, Client31 and DB11, (client31:igb1)
192.168.112.1   db11client32    # p2p, DB11 and Client32, (db11:e1000g1)
192.168.112.2   client32db11    # p2p, Client32 and DB11, (client32:igb1)
192.168.113.1   db11client33    # p2p, DB11 and Client33, (db11:e1000g2)
192.168.113.2   client33db11    # p2p, Client33 and DB11, (client33:igb1)
#
# db12 client connections:
192.168.111.1   db12client34    # p2p, DB12 and Client34, (db12:e1000g0)
192.168.111.2   client34db12    # p2p, Client34 and DB12, (client34:igb1)
192.168.112.1   db12client35    # p2p, DB12 and Client35, (db12:e1000g1)
192.168.112.2   client35db12    # p2p, Client35 and DB12, (client35:igb1)
192.168.113.1   db12client36    # p2p, DB12 and Client36, (db12:e1000g2)
192.168.113.2   client36db12    # p2p, Client36 and DB12, (client36:igb1)
#
# db13 client connections:
192.168.111.1   db13client37    # p2p, DB13 and Client37, (db13:e1000g0)
192.168.111.2   client37db13    # p2p, Client37 and DB13, (client37:igb1)
192.168.112.1   db13client38    # p2p, DB13 and Client38, (db13:e1000g1)
192.168.112.2   client38db13    # p2p, Client38 and DB13, (client38:igb1)
192.168.113.1   db13client39    # p2p, DB13 and Client39, (db13:e1000g2)
192.168.113.2   client39db13    # p2p, Client39 and DB13, (client39:igb1)
#
# db14 client connections:
192.168.111.1   db14client40    # p2p, DB14 and Client40, (db14:e1000g0)
192.168.111.2   client40db14    # p2p, Client40 and DB14, (client40:igb1)
192.168.112.1   db14client41    # p2p, DB14 and Client41, (db14:e1000g1)
192.168.112.2   client41db14    # p2p, Client41 and DB14, (client41:igb1)
192.168.113.1   db14client42    # p2p, DB14 and Client42, (db14:e1000g2)
192.168.113.2   client42db14    # p2p, Client42 and DB14, (client42:igb1)
#
# db15 client connections:
192.168.111.1   db15client43    # p2p, DB15 and Client43, (db15:e1000g0)
192.168.111.2   client43db15    # p2p, Client43 and DB15, (client43:igb1)
192.168.112.1   db15client44    # p2p, DB15 and Client44, (db15:e1000g1)
192.168.112.2   client44db15    # p2p, Client44 and DB15, (client44:igb1)
192.168.113.1   db15client45    # p2p, DB15 and Client45, (db15:e1000g2)
192.168.113.2   client45db15    # p2p, Client45 and DB15, (client45:igb1)
#
# db16 client connections:
192.168.111.1   db16client46    # p2p, DB16 and Client46, (db16:e1000g0)
192.168.111.2   client46db16    # p2p, Client46 and DB16, (client46:igb1)
192.168.112.1   db16client47    # p2p, DB16 and Client47, (db16:e1000g1)
192.168.112.2   client47db16    # p2p, Client47 and DB16, (client47:igb1)
192.168.113.1   db16client48    # p2p, DB16 and Client48, (db16:e1000g2)
192.168.113.2   client48db16    # p2p, Client48 and DB16, (client48:igb1)
#
# db17 client connections:
192.168.111.1   db17client49    # p2p, DB17 and Client49, (db17:e1000g0)
192.168.111.2   client49db17    # p2p, Client49 and DB17, (client49:igb1)
192.168.112.1   db17client50    # p2p, DB17 and Client50, (db17:e1000g1)
192.168.112.2   client50db17    # p2p, Client50 and DB17, (client50:igb1)
192.168.113.1   db17client51    # p2p, DB17 and Client51, (db17:e1000g2)
192.168.113.2   client51db17    # p2p, Client51 and DB17, (client51:igb1)
#
# db18 client connections:
192.168.111.1   db18client52    # p2p, DB18 and Client52, (db18:e1000g0)
192.168.111.2   client52db18    # p2p, Client52 and DB18, (client52:igb1)
192.168.112.1   db18client53    # p2p, DB18 and Client53, (db18:e1000g1)
192.168.112.2   client53db18    # p2p, Client53 and DB18, (client53:igb1)
192.168.113.1   db18client54    # p2p, DB18 and Client54, (db18:e1000g2)
192.168.113.2   client54db18    # p2p, Client54 and DB18, (client54:igb1)
#
# db19 client connections:
192.168.111.1   db19client55    # p2p, DB19 and Client55, (db19:e1000g0)
192.168.111.2   client55db19    # p2p, Client55 and DB19, (client55:igb1)
192.168.112.1   db19client56    # p2p, DB19 and Client56, (db19:e1000g1)
192.168.112.2   client56db19    # p2p, Client56 and DB19, (client56:igb1)
192.168.113.1   db19client57    # p2p, DB19 and Client57, (db19:e1000g2)
192.168.113.2   client57db19    # p2p, Client57 and DB19, (client57:igb1)
#
# db20 client connections:
192.168.111.1   db20client58    # p2p, DB20 and
```

```
Client58, (db20:e1000g0)
192.168.111.2           client58db20            # p2p, Client58 and
DB20, (client58:igb1)
192.168.112.1           db20client59            # p2p, DB20 and
Client59, (db20:e1000g1)
192.168.112.2           client59db20            # p2p, Client59 and
DB20, (client59:igb1)
192.168.113.1           db20client60            # p2p, DB20 and
Client60, (db20:e1000g2)
192.168.113.2           client60db20            # p2p, Client60 and
DB20, (client60:igb1)
#
# db21 client connections:
192.168.111.1           db21client61            # p2p, DB21 and
Client61, (db21:e1000g0)
192.168.111.2           client61db21            # p2p, Client61 and
DB21, (client61:igb1)
192.168.112.1           db21client62            # p2p, DB21 and
Client62, (db21:e1000g1)
192.168.112.2           client62db21            # p2p, Client62 and
DB21, (client62:igb1)
192.168.113.1           db21client63            # p2p, DB21 and
Client63, (db21:e1000g2)
192.168.113.2           client63db21            # p2p, Client63 and
DB21, (client63:igb1)
#
# db22 client connections:
192.168.111.1           db22client64            # p2p, DB22 and
Client64, (db22:e1000g0)
192.168.111.2           client64db22            # p2p, Client64 and
DB22, (client64:igb1)
192.168.112.1           db22client65            # p2p, DB22 and
Client65, (db22:e1000g1)
192.168.112.2           client65db22            # p2p, Client65 and
DB22, (client65:igb1)
192.168.113.1           db22client66            # p2p, DB22 and
Client66, (db22:e1000g2)
192.168.113.2           client66db22            # p2p, Client66 and
DB22, (client66:igb1)
#
# db23 client connections:
192.168.111.1           db23client67            # p2p, DB23 and
Client67, (db23:e1000g0)
192.168.111.2           client67db23            # p2p, Client67 and
DB23, (client67:igb1)
192.168.112.1           db23client68            # p2p, DB23 and
Client68, (db23:e1000g1)
192.168.112.2           client68db23            # p2p, Client68 and
DB23, (client68:igb1)
192.168.113.1           db23client69            # p2p, DB23 and
Client69, (db23:e1000g2)
192.168.113.2           client69db23            # p2p, Client69 and
DB23, (client69:igb1)
#
# db24 client connections:
192.168.111.1           db24client70            # p2p, DB24 and
Client70, (db24:e1000g0)
192.168.111.2           client70db24            # p2p, Client70 and
```

```
DB24, (client70:igb1)
192.168.112.1           db24client71            # p2p, DB24 and
Client71, (db24:e1000g1)
192.168.112.2           client71db24            # p2p, Client71 and
DB24, (client71:igb1)
192.168.113.1           db24client72            # p2p, DB24 and
Client72, (db24:e1000g2)
192.168.113.2           client72db24            # p2p, Client72 and
DB24, (client72:igb1)
#
# db25 client connections:
192.168.111.1           db25client73            # p2p, DB25 and
Client73, (db25:e1000g0)
192.168.111.2           client73db25            # p2p, Client73 and
DB25, (client73:igb1)
192.168.112.1           db25client74            # p2p, DB25 and
Client74, (db25:e1000g1)
192.168.112.2           client74db25            # p2p, Client74 and
DB25, (client74:igb1)
192.168.113.1           db25client75            # p2p, DB25 and
Client75, (db25:e1000g2)
192.168.113.2           client75db25            # p2p, Client75 and
DB25, (client75:igb1)
#
# db26 client connections:
192.168.111.1           db26client76            # p2p, DB26 and
Client76, (db26:e1000g0)
192.168.111.2           client76db26            # p2p, Client76 and
DB26, (client76:igb1)
192.168.112.1           db26client77            # p2p, DB26 and
Client77, (db26:e1000g1)
192.168.112.2           client77db26            # p2p, Client77 and
DB26, (client77:igb1)
192.168.113.1           db26client78            # p2p, DB26 and
Client78, (db26:e1000g2)
192.168.113.2           client78db26            # p2p, Client78 and
DB26, (client78:igb1)
#
# db27 client connections:
192.168.111.1           db27client79            # p2p, DB27 and
Client79, (db27:e1000g0)
192.168.111.2           client79db27            # p2p, Client79 and
DB27, (client79:igb1)
192.168.112.1           db27client80            # p2p, DB27 and
Client80, (db27:e1000g1)
192.168.112.2           client80db27            # p2p, Client80 and
DB27, (client80:igb1)
192.168.113.1           db27client81            # p2p, DB27 and
Client81, (db27:e1000g2)
192.168.113.2           client81db27            # p2p, Client81 and
DB27, (client81:igb1)
#
# endit: db2client p2p's


##################################################################
##################
#
```

```
# Private Point to Point (p2p) connections between ClientX nodes and
# rteX nodes.  Because these are POINT TO POINT, and further, PRIVATE
to
# the three node Client/RTE tuples of three, this ONE section good for ALL!!
#

#The following is GENERIC FOR ALL CLIENT DRIVER TUPLES!
192.168.200.1     drvrte1           # p2p, client driver 1,
clientX:igb2
192.168.200.2     rte1drv           # p2p, client driver 1, rteX-
1:igb2
192.168.201.1     drvrte2           # p2p, client driver 2,
clientX:igb3
192.168.201.2     rte2drv           # p2p, client driver 2, rteX-
2:igb3
#
# endit: client2driver (or RTE) p2p's
```

format – devices seen by db nodes 1..27

```
Searching for disks...done


AVAILABLE DISK SELECTIONS:
       0. c0t5000C5001CB42DB3d0 <LSI-LogicalVolume-3000 cyl 65533 alt
2 hd 64 sec 139>
          /scsi_vhci/disk@g5000c5001cb42db3
       1. c0t5000C5001CB48C67d0 <SEAGATE-ST930003SSUN300G-0868-
279.40GB>
          /scsi_vhci/disk@g5000c5001cb48c67
       2. c0t5000C5001CB49B1Bd0 <SUN300G cyl 46873 alt 2 hd 20 sec
625>
          /scsi_vhci/disk@g5000c5001cb49b1b
       3. c0t5000C5001CB428AFd0 <SUN300G cyl 46873 alt 2 hd 20 sec
625>
          /scsi_vhci/disk@g5000c5001cb428af
       4. c0t5000C5001CB4300Bd0 <SUN300G cyl 46873 alt 2 hd 20 sec
625>
          /scsi_vhci/disk@g5000c5001cb4300b
       5. c0t5000C5001CB4627Fd0 <SEAGATE-ST930003SSUN300G-0868-
279.40GB>
          /scsi_vhci/disk@g5000c5001cb4627f
       6. c0t5000C5001CB43063d0 <SUN300G cyl 46873 alt 2 hd 20 sec 625>
          /scsi_vhci/disk@g5000c5001cb43063
       7. c0t5000C5001CB48753d0 <LSI-LogicalVolume-3000 cyl 65533 alt 2
hd 64 sec 139>
          /scsi_vhci/disk@g5000c5001cb48753
       8. c0t600144F0A8A8CE00000000000D14D101d0 <SUN-COMSTAR-
1.0-156.53GB>
          /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d101
       9. c0t600144F0A8A8CE00000000000D14D102d0 <SUN-COMSTAR-
1.0-203.41GB>
          /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d102
      10. c0t600144F0A8A8CE00000000000D14D103d0 <SUN-COMSTAR-
1.0-156.53GB>
          /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d103
      11. c0t600144F0A8A8CE00000000000D14D104d0 <SUN-COMSTAR-
1.0-109.66GB>
          /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d104
```

```
    12. c0t600144F0A8A8CE00000000000D14D105d0 <SUN-COMSTAR-1.0-109.66GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d105
    13. c0t600144F0A8A8CE00000000000D14D106d0 <SUN-COMSTAR-1.0-109.66GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d106
    14. c0t600144F0A8A8CE00000000000D14D107d0 <SUN-COMSTAR-1.0-15.66GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d107
    15. c0t600144F0A8A8CE00000000000D14D108d0 <SUN-COMSTAR-1.0-141.87GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d108
    16. c0t600144F0A8A8CE00000000000D14D109d0 <SUN-COMSTAR-1.0-203.41GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d109
    17. c0t600144F0A8A8CE00000000000D14D110d0 <SUN-COMSTAR-1.0-156.53GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d110
    18. c0t600144F0A8A8CE00000000000D14D111d0 <SUN-COMSTAR-1.0-109.66GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d111
    19. c0t600144F0A8A8CE00000000000D14D112d0 <SUN-COMSTAR-1.0-109.66GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d112
    20. c0t600144F0A8A8CE00000000000D14D113d0 <SUN-COMSTAR-1.0-109.66GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d113
    21. c0t600144F0A8A8CE00000000000D14D114d0 <SUN-COMSTAR-1.0-15.66GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d114
    22. c0t600144F0A8A8CE00000000000D14D115d0 <SUN-COMSTAR-1.0-148.77GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d115
    23. c0t600144F0A8A8CE00000000000D14D116d0 <SUN-COMSTAR-1.0-203.41GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d116
    24. c0t600144F0A8A8CE00000000000D14D117d0 <SUN-COMSTAR-1.0-156.53GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d117
    25. c0t600144F0A8A8CE00000000000D14D118d0 <SUN-COMSTAR-1.0-109.66GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d118
    26. c0t600144F0A8A8CE00000000000D14D119d0 <SUN-COMSTAR-1.0-109.66GB>
        /scsi_vhci/ssd@g600144f0a8a8ce00000000000d14d119
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1.0-156.53GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d111
   2260. c0t600144F017988500000000000D66D112d0 <SUN-COMSTAR-
1.0-109.66GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d112
   2261. c0t600144F017988500000000000D66D113d0 <SUN-COMSTAR-
1.0-109.66GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d113
   2262. c0t600144F017988500000000000D66D114d0 <SUN-COMSTAR-
1.0-15.66GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d114
   2263. c0t600144F017988500000000000D66D115d0 <SUN-COMSTAR-
1.0-203.41GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d115
   2264. c0t600144F017988500000000000D66D116d0 <SUN-COMSTAR-
1.0-156.53GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d116
   2265. c0t600144F017988500000000000D66D117d0 <SUN-COMSTAR-
1.0-156.53GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d117
   2266. c0t600144F017988500000000000D66D118d0 <SUN-COMSTAR-
1.0-109.66GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d118
   2267. c0t600144F017988500000000000D66D119d0 <SUN-COMSTAR-
1.0-109.66GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d119
   2268. c0t600144F017988500000000000D66D120d0 <SUN-COMSTAR-
1.0-109.66GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d120
   2269. c0t600144F017988500000000000D66D121d0 <SUN-COMSTAR-
1.0-203.41GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d121
   2270. c0t600144F017988500000000000D66D122d0 <SUN-COMSTAR-
1.0-156.53GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d122
   2271. c0t600144F017988500000000000D66D123d0 <SUN-COMSTAR-
1.0-156.53GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d123
   2272. c0t600144F017988500000000000D66D124d0 <SUN-COMSTAR-
1.0-109.66GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d124
   2273. c0t600144F017988500000000000D66D125d0 <SUN-COMSTAR-
1.0-109.66GB>
        /scsi_vhci/ssd@g600144f017988500000000000d66d125
```

```
   2274. c0t600144F0179885000000000000D66D126d0 <SUN-COMSTAR-1.0-109.66GB>
          /scsi_vhci/ssd@g600144f0179885000000000000d66d126
Specify disk (enter its number):
```

emlxs.conf – nodes 1..27

```
# Copyright 2010 Emulex.  All rights reserved.
# Use is subject to license terms.
#
#ident	"@(#)emlxs.conf	1.2	10/01/27 SMI"
#
#
#
# Solaris LightPulse emlxs driver: global initialized data.
#


# console-notices:  Sets the verbose level for driver notices to the console.
# console-warnings: Sets the verbose level for driver warnings to the console.
# console-errors:   Sets the verbose level for driver errors to the console.
#
# log-notices:  Sets the verbose level for driver notices to the system log file*.
# log-warnings: Sets the verbose level for driver warnings to the system log file*.
# log-errors:   Sets the verbose level for driver errors to the system log file*.
#
#      *NOTE:  The system log file is normally found at /var/adm/messages.
#
# Each parameter is a bit mask that enables/disables specific types of messages.
# If the bit is set, then the messages of that type are enabled.
#
# The available message types are listed below:
#
# LOG_MISC        0x00000001     /* Misc events */
# LOG_DRIVER      0x00000002     /* Driver attach and detach events */
# LOG_INIT        0x00000004     /* HBA initialization events */
# LOG_MEM         0x00000008     /* Memory managment events */
# LOG_SLI         0x00000010     /* Service Level Interface (SLI) events */
# LOG_MBOX        0x00000020     /* Mailbox events */
# LOG_NODE        0x00000040     /* Node events */
# LOG_LINK        0x00000080     /* Link events */
# LOG_ELS         0x00000100     /* ELS events */
# LOG_PKT         0x00000200     /* General I/O packet events */
# LOG_FCP         0x00000400     /* FCP traffic events */
# LOG_TGTM        0x00000800     /* FCP target mode events */
# LOG_IP          0x00001000     /* IP traffic events */
# LOG_SFS         0x00002000     /* SFS events */
# LOG_IOCTL       0x00004000     /* IOCtl events */
# LOG_FIRMWARE    0x00008000     /* Firmware download events */
# LOG_CT          0x00010000     /* CT events */
# LOG_FCSP        0x00020000     /* FCSP events */
# LOG_RESERVED    0xfffc0000     /* Reserved for future use */
#
# Range:  Min:0  Max:0xffffffff
#
# console-notices  = 0;  (Default)
# console-warnings = 0;  (Default)
# console-errors   = 0;  (Default)
#
# log-notices  = 0xffffffff;  (Default)
# log-warnings = 0xffffffff;  (Default)
# log-errors   = 0xffffffff;  (Default)
#
console-notices=0;
console-warnings=0;
console-errors=0;
log-notices=0xffffffff;
log-warnings=0xffffffff;
log-errors=0xffffffff;


# num-iocbs:  Sets the number of iocb buffers to allocate.
#
# Range:  Min:128  Max:10240  Default:1024
#
num-iocbs=1024;


# max-xfer-size:  Sets the maximum SCSI transfer size in bytes per IO
# This parameter is only used by the driver on i386 platforms.
# The driver does not limit transfer size on SPARC platforms.
#
# This parameter determines the scatter gather list buffer size.
# A pool of buffers is reallocated by the driver during boot.
# A larger transfer size requires a larger memory allocation.
#
#       Memory_model       max-xfer-size
#     ----------------------------------------
#       Small             131072 - 339968
#       Medium             339969 - 688128
#       Large             688129 - 1388544
#
# Range:  Min:131072   Max:1388544   Default:339968
#
max-xfer-size=339968;


# ub-bufs:  Sets the number of unsolicited buffers to be allocated.
#
# Range:  Min:40  Max:16320  Default:1000
#
ub-bufs=1000;


#
# +++ Variables relating to IP networking support. +++
#

# network-on:  Enable/Disable IP networking support in the driver.
#
# 0 = Disables IP networking suppport in the driver.
# 1 = Enables IP networking suppport in the driver.
#
# Range:  Min:0  Max:1  Default:1
#
network-on=1;


#
# +++ Fibre Channel specific parameters +++
#
# topology:  link topology for initializing the Fibre Channel connection.
#
#	0 = attempt loop mode, if it fails attempt point-to-point mode
#	2 = attempt point-to-point mode only
#	4 = attempt loop mode only
#	6 = attempt point-to-point mode, if it fails attempt loop mode
#
# Set point-to-point mode if you want to run as an N_Port.
# Set loop mode if you want to run as an NL_Port.
#
# Range:  Min:0  Max:6  Default:0
#
topology=0;


# link-speed:  Sets the link speed setting for initializing the Fibre Channel
#		connection.
#
#  0 = auto select
#  1 = 1 Gigabaud
#  2 = 2 Gigabaud
#  4 = 4 Gigabaud
#  8 = 8 Gigabaud
#
# Range:  Min:0  Max:8  Default:0
#
link-speed=0;


# ack0: Determines if ACK0 is used instead of ACK1 for class 2
#       acknowledgement.
#
# 0 = The driver will use ACK1 for class 2 acknowledgement.
# 1 = The driver will use ACK0 for class 2 acknowledgement.
#
# Range:  Min:0  Max:1  Default:0
#
ack0=0;


# cr-delay: Sets the coalesce response delay in the adapter.
#
# This value specifies a count of milliseconds after which an interrupt
# response is generated if cr-count has not been satisfied. This value is
# set to 0 to disable the Coalesce Response feature as default.
#
# Range:  Min:0  Max:63  Default:0
#
cr-delay=0;
```

```
# cr-count: Sets the coalesce response count in the adapter.
#
# This value specifies a count of I/O completions after which an interrupt
# response is generated. This feature is disabled if cr-delay is set to 0.
#
# Range:  Min:1  Max:255  Default:1
#
cr-count=1;


# assign-alpa: Sets a preferred ALPA for the adapter.
#
# This is only valid if topology is loop. A zero setting means no preference.
# If multiple adapter instances on the same host are on the same loop,
# you will want to set this value differently for each adapter.
#
# For example: emlxs0-assign-alpa=0x01;  assigns ALPA 0x01 to adapter 0
#              emlxs1-assign-alpa=0x02;  assigns ALPA 0x02 to adapter 1
#              emlxs2-assign-alpa=0x04;  assigns ALPA 0x04 to adapter 2
#
# Range:  Min:0x00  Max:0xef  Default:0x00  (valid ALPA's only)
#
assign-alpa=0x00;


# adisc-support:  Sets the ADISC login support level.
#
# This sets the level of driver support for the Fibre Channel ADISC
# login I/O recovery method.
#
# 0 = No support. Flush active I/O's for all FCP target devices at link down.
# 1 = Partial support. Flush I/O's for non-FCP2 target devices at link down.
# 2 = Full support. Hold active I/O's for all devices at link down.
#
# Range:  Min:0  Max:2  Default:1
#
adisc-support=1;


# pm-support:  Enable/Disable power management support in the driver.
#
# 0 = Disables power management support in the driver.
# 1 = Enables power management support in the driver.
#
# Range:  Min:0  Max:1  Default:0
#
pm-support=0;


# num-nodes:  Number of fibre channel nodes (NPorts) the driver will
support.
#
# 0 = Indicates auto detect limit of adapter.
#
# Range:  Min:0  Max:4096  Default:0
#
num-nodes=0;
```

```

# pci-max-read:  Sets the PCI-X max memory read byte count on the adapter.
#
# This value controls the adapter's max PCI-X memory read count.
# On Sunfire x4100/4200 systems this parameter must be changed to
# 1024 bytes.  Currently, this parameter should only be modified on
# Sunfire x4100/4200 systems due to the unique nature of the PCI-X bus
# on these systems, otherwise it should be left as default.
#
# Options:  512, 1024, 2048, 4096
#
# Range:  Min:512  Max:4096  Default:2048
#
# *Uncomment this parameter for Sunfire x4100/4200 systems only
#pci-max-read=1024;


# linkup-delay:  Sets the linkup delay period (seconds) after initialization.
#
# This value controls how long the driver waits for the Fibre Channel
# link to come up after an adapter reset before continuing normal operation.
#
# Range:  Min:0  Max:60  Default:10
#
linkup-delay=10;


# enable-npiv:  Enables NPIV support in the driver.
#
# Requires SLI3 mode support in the adapter firmware.
#
# Range:  Min:0  Max:1  Default:0
#
enable-npiv=0;


# vport-restrict-login:  Restricts login to virtual ports to conserve resources.
#
# Requires SLI3 mode support in the adapter firmware.
# Requires enable-npiv parameter to be set to 1.
#
# Range:  Min:0  Max:1  Default:1
#
vport-restrict-login=1;


# vport: Virtual port registration table.
#       The enable-npiv must be set to 1.
#
# The vport table may have any number of comma delimited entries.
# Each entry must be of the form:
#
#   "PHYS_WWPN:VPORT_WWNN:VPORT_WWPN:VPORT_ID"
#
#   PHYS_WWPN  = World Wide Port Name of adapter's physical port
#   VPORT_WWNN = Desired World Wide Node Name of virtual port
#   VPORT_WWPN = Desired World Wide Port Name of virtual port
#   VPORT_ID   = Desired virtual port id (1 to max vports)
#              The port ids must start at 1 and increment by 1
#              with no gaps in the count.
#
# Example:
#
# vport="10000000c9123456:28010000c9123456:20010000c9123456:1",
#       "10000000c9123456:28020000c9123456:20020000c9123456:2",
#       "10000000c9123457:28010000c9123457:20010000c9123457:1",
#       "10000000c9123457:28020000c9123457:20020000c9123457:2",
#       "10000000c9123457:28030000c9123457:20030000c9123457:3";
#



# enable-auth:  Enables DHCHAP support in the driver.
#
# Range:  Min:0  Max:1  Default:0
#
enable-auth=0;

fm-capable=0;
log-debugs=0x0fffffff;
```

fp.conf – nodes 1..27

```
#
# Copyright 2006 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
# Sun Fibre Channel Port driver configuration
#
#ident       "@(#)fp.conf            1.4            06/06/22 SMI"
#

name="fp" class="fibre-channel" port=0;
name="fp" class="fibre-channel" port=1;

#
# Automatic configuration of the fabric is turned on by default
# and thus allows all devices discovered in the SAN zone to be
# enumerated in the Solaris devinfo tree automatically.
#
# The manual_configuration_only property may be used to
# disable the default behavior and force the manual configuration of
# the devices in the SAN. Setting manual_configuration_only=1
# will disable the automatic configuration of devices.
# NOTE: Use of this property is not recommended. If used, the
# fabric devices accessed at boot time need to get manually configured
# before the next reboot. Otherwise, fabric devices that are needed at
# boot time may not get configured and may cause boot problems.
# To manually configure fabric devices, refer to cfgadm_fp(1M).
# manual_configuration_only=1;
#

#
# To generate the binding-set specific 'compatible' forms used to address
# legacy issues the 'scsi-binding-set' property must be defined. (do not
remove)
#
scsi-binding-set="fcp";
```

```
#
# List of ULP modules for loading during port driver attach time
#
load-ulp-list="1","fcp";

#
# Force attach driver to support hotplug activity (do not remove the property)
#
ddi-forceattach=1;

#
# I/O multipathing feature (MPxIO) can be enabled or disabled using
# mpxio-disable property. Setting mpxio-disable="no" will activate
# I/O multipathing; setting mpxio-disable="yes" disables the feature.
#
# Global mpxio-disable property:
#
# To globally enable MPxIO on all fp ports set:
# mpxio-disable="no";
#
# To globally disable MPxIO on all fp ports set:
# mpxio-disable="yes";
#
# Per port mpxio-disable property:
#
# You can also enable or disable MPxIO on a per port basis.
# Per port settings override the global setting for the specified ports.
# To disable MPxIO on port 0 whose parent is /pci@8,600000/SUNW,qlc@4 set:
# name="fp" parent="/pci@8,600000/SUNW,qlc@4" port=0 mpxio-disable="yes";
#
# NOTE: If you just want to enable or disable MPxIO on all fp ports, it is
# better to use stmsboot(1M) as it also updates /etc/vfstab.
#
#
# You can describe a list of target port WWNs and LUN numbers which will
# not be configured. LUN numbers will be interpreted as decimal. White
# spaces and ',' can be used in the list of LUN numbers.
#
# pwwn-lun-blacklist=
# "target-port-wwn,lun-list"
#
# To prevent LUNs 1 and 2 from being configured for target
# port 510000f010fd92a1 and target port 510000e012079df1, set:
#
# pwwn-lun-blacklist=
# "510000f010fd92a1,1,2",
# "510000e012079df1,1,2";
mpxio-disable="no";
```

mpt.conf – nodes 1..27

```
#
# Copyright 2008 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
#pragma ident           "@(#)mpt.conf           1.3           08/12/01 SMI"
#

#
# The mpt driver, as a pHCI driver, must specify the vHCI class it
# belongs to(scsi_vhci).
#
ddi-vhci-class="scsi_vhci";
#
# I/O multipathing feature (MPxIO) can be enabled or disabled using
# mpxio-disable property. Setting mpxio-disable="no" will activate
# I/O multipathing; setting mpxio-disable="yes" disables the feature.
#
# Global mpxio-disable property:
#
# To globally enable MPxIO on all mpt controllers set:
# mpxio-disable="no";
#
# To globally disable MPxIO on all mpt controllers set:
# mpxio-disable="yes";
#
# You can also enable or disable MPxIO on a per HBA basis.
# Per HBA settings override the global setting for the specified HBAs.
# To disable MPxIO on a controller whose parent is /pci@7c0/pci@0/pci@9
# and the unit-address is "0" set:
# name="mpt" parent="/pci@7c0/pci@0/pci@9" unit-address="0" mpxio-disable="yes";
#


#
# SATA mpxio supported
#
# To disable SATA mpxio, set
# disable-sata-mpxio="yes";
# When mpxio-disable="yes" is set, the disable-sata-mpxio property
# has no effect
#
mpxio-disable="no";
disable-sata-mpxio="no";
```

ses.conf – nodes 1..27

```
#
# Copyright 2005 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
#
#ident       "@(#)ses.conf           1.12          05/12/08 SMI"
#

name="ses" parent="sf" target=15;
name="ses" parent="fp" target=15;
name="ses" parent="scsi_vhci" target=15;

name="ses" class="scsi" target=0 lun=0;
name="ses" class="scsi" target=1 lun=0;
name="ses" class="scsi" target=2 lun=0;
name="ses" class="scsi" target=3 lun=0;
name="ses" class="scsi" target=4 lun=0;
name="ses" class="scsi" target=5 lun=0;
name="ses" class="scsi" target=6 lun=0;
name="ses" class="scsi" target=7 lun=0;
name="ses" class="scsi" target=8 lun=0;
name="ses" class="scsi" target=9 lun=0;
name="ses" class="scsi" target=10 lun=0;
name="ses" class="scsi" target=11 lun=0;
name="ses" class="scsi" target=12 lun=0;
name="ses" class="scsi" target=13 lun=0;
name="ses" class="scsi" target=14 lun=0;
name="ses" class="scsi" target=15 lun=0;
```

psrset for database nodes [1,3,9,11,12,14,16,17,19,20,21,25,27]

```
user processor set 1: processor 0
user processor set 2: processors 128 129 256 257 258 259 384 385
user processor set 3: processors 388 389 390 391 392 393 394 395
user processor set 4: processors 396 397 398
user processor set 5: processor 407
user processor set 6: processors 408 409 410 411 412 413 414 415 416 417 418 419
user processor set 7: processors 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451
user processor set 8: processors 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127
user processor set 9: processors 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255
user processor set 10: processors 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511
```

psrset for database node 2

```
user processor set 1: processor 0
user processor set 2: processors 128 129 256 257 258 259 384 385
user processor set 3: processors 388 389 390 391 392 393 394 395
user processor set 4: processors 396 397 398
user processor set 5: processor 407
user processor set 6: processors 408 409 410 411 412 413 414 415 416 417 418 419
user processor set 7: processors 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451
user processor set 8: processors 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 1 2 3 4 5 6
```

```
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468
469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485
486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502
503 504 505 506 507 508 509 510 511
user processor set 9: processors 162 163 164 165 166 167 168 169 170 171
172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188
189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205
206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222
223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239
240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 146
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 130 131
132 133 134 135 136 137 138 139 140 141 142 143 144 145
user processor set 10: processors 260 261 262 263 264 265 266 267 268 269
270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286
287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303
304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320
321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337
338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354
355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371
372 373 374 375 376 377 378 379 380 381 382 383
```

psrset for database nodes [4,5,7,15,22,24]

```
user processor set 1: processor 0
user processor set 2: processors 128 129 256 257 258 259 384 385
user processor set 3: processors 388 389 390 391 392 393 394 395
user processor set 4: processors 396 397 398
user processor set 5: processor 407
user processor set 6: processors 408 409 410 411 412 413 414 415 416 417
418 419
user processor set 7: processors 420 421 422 423 424 425 426 427 428 429
430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446
447 448 449 450 451
user processor set 8: processors 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43
44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67
452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468
469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485
486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502
503 504 505 506 507 508 509 510 511
user processor set 9: processors 130 131 132 133 134 135 136 137 138 139
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156
157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173
174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190
191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207
208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224
225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241
242 243 244 245 246 247 248 249 250 251 252 253 254 255
user processor set 10: processors 260 261 262 263 264 265 266 267 268 269
270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286
287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303
304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320
321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337
338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354
355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371
372 373 374 375 376 377 378 379 380 381 382 383
```

psrset for database nodes [6,8,10,13,18,23,26]

```
user processor set 1: processor 0
user processor set 2: processors 128 129 256 257 258 259 384 385
user processor set 3: processors 388 389 390 391 392 393 394 395
user processor set 4: processors 396 397 398
user processor set 5: processor 407
user processor set 6: processors 408 409 410 411 412 413 414 415 416 417
418 419
user processor set 7: processors 420 421 422 423 424 425 426 427 428 429
430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446
447 448 449 450 451
user processor set 8: processors 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43
44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68
69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93
94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112
113 114 115 116 117 118 119 120 121 122 123 124 125 126 127
user processor set 9: processors 130 131 132 133 134 135 136 137 138 139
140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156
157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173
174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190
191 192 193 194 195 452 453 454 455 456 457 458 459 460 461 462 463
464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480
481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497
498 499 500 501 502 503 504 505 506 507 508 509 510 511
user processor set 10: processors 260 261 262 263 264 265 266 267 268 269
270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286
287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303
304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320
321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337
338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354
355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371
372 373 374 375 376 377 378 379 380 381 382 383
```

Oracle Real Application Cluster Parameters

build_init_[1..27].ora

```
# editor's note: substitute node number below for value in [..]
instance_number = [1..27]
thread = [1..27]
undo_tablespace = undo_[1..27]
ifile = /export/home/oracle/tpcc_kit_27nodes/p_build.ora
```

run[1..27].ora

```
# editor's note: substitute node number below for value in [..]
instance_number=[1..27]
thread=[1..27]
undo_tablespace=undo_[1..27]
ifile=/export/home/oracle/tpcc_kit_27nodes/p_run.ora
```

COMSTAR DATA HEADS – 1..69

format – disk devices seen by COMSTAR

```
Searching for disks...done

AVAILABLE DISK SELECTIONS:
       0. c2t0d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@0,0
       1. c2t1d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@1,0
       2. c2t2d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@2,0
       3. c2t3d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@3,0
       4. c2t4d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@4,0
       5. c2t5d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@5,0
       6. c2t6d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@6,0
       7. c2t7d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@7,0
       8. c2t8d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@8,0
       9. c2t9d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@9,0
      10. c2t10d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@a,0
      11. c2t11d0 <DEFAULT cyl 60797 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,3150@0/sd@b,0
      12. c9t5080020000558FC0d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
          /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558fc0,0
      13. c9t5080020000558FC1d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
          /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558fc1,0
      14. c9t5080020000558FC2d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
          /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558fc2,0
      15. c9t5080020000558FC3d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
          /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558fc3,0
      16. c9t5080020000558FC4d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
          /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558fc4,0
      17. c9t5080020000558FC5d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
          /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558fc5,0
      18. c9t5080020000558FC6d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
          /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558fc6,0
      19. c9t5080020000558FC7d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
          /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558fc7,0
      20. c9t5080020000558FC8d0 <ATA-MARVELLSD88SA02-D129 cyl
```

```
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fc8,0
     21. c9t5080020000558FC9d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fc9,0
     22. c9t5080020000558FCAd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fca,0
     23. c9t5080020000558FCBd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fcb,0
     24. c9t5080020000558FCCd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fcc,0
     25. c9t5080020000558FCDd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fcd,0
     26. c9t5080020000558FCEd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fce,0
     27. c9t5080020000558FCFd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fcf,0
     28. c9t5080020000558FD0d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fd0,0
     29. c9t5080020000558FD1d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fd1,0
     30. c9t5080020000558FD2d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fd2,0
     31. c9t5080020000558FD3d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f/disk@w5080020000558fd3,0
     32. c10t5080020000558F4Ad0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f4a,0
     33. c10t5080020000558F4Bd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f4b,0
     34. c10t5080020000558F4Cd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f4c,0
     35. c10t5080020000558F4Dd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f4d,0
     36. c10t5080020000558F4Ed0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f4e,0
     37. c10t5080020000558F4Fd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f4f,0
     38. c10t5080020000558F40d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f40,0
     39. c10t5080020000558F41d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f41,0
     40. c10t5080020000558F42d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f42,0
     41. c10t5080020000558F43d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f43,0
     42. c10t5080020000558F44d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f44,0
     43. c10t5080020000558F45d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f45,0
     44. c10t5080020000558F46d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f46,0
     45. c10t5080020000558F47d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f47,0
     46. c10t5080020000558F48d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f48,0
     47. c10t5080020000558F49d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f49,0
     48. c10t5080020000558F50d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f/disk@w5080020000558f50,0
     49. c10t5080020000558F51d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f51,0
     50. c10t5080020000558F52d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f52,0
     51. c10t5080020000558F53d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f53,0
     52. c11t5080020000558F0Ad0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f0a,0
     53. c11t5080020000558F0Bd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f0b,0
     54. c11t5080020000558F0Cd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f0c,0
     55. c11t5080020000558F0Dd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f0d,0
     56. c11t5080020000558F0Ed0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f0e,0
     57. c11t5080020000558F0Fd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f0f,0
     58. c11t5080020000558F00d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f00,0
     59. c11t5080020000558F01d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f01,0
     60. c11t5080020000558F02d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f02,0
     61. c11t5080020000558F03d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f03,0
     62. c11t5080020000558F04d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f04,0
     63. c11t5080020000558F05d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
```

```
30b0@0/iport@f/disk@w5080020000558f05,0
    64. c11t5080020000558F06d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f06,0
    65. c11t5080020000558F07d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f07,0
    66. c11t5080020000558F08d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f08,0
    67. c11t5080020000558F09d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f09,0
    68. c11t5080020000558F10d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f10,0
    69. c11t5080020000558F11d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f11,0
    70. c11t5080020000558F12d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f12,0
    71. c11t5080020000558F13d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f/disk@w5080020000558f13,0
    72. c12t5080020000558F8Ad0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f8a,0
    73. c12t5080020000558F8Bd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f8b,0
    74. c12t5080020000558F8Cd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f8c,0
    75. c12t5080020000558F8Dd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f8d,0
    76. c12t5080020000558F8Ed0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f8e,0
    77. c12t5080020000558F8Fd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f8f,0
    78. c12t5080020000558F80d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f80,0
    79. c12t5080020000558F81d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f81,0
    80. c12t5080020000558F82d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f82,0
    81. c12t5080020000558F83d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f83,0
    82. c12t5080020000558F84d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f84,0
    83. c12t5080020000558F85d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f85,0
    84. c12t5080020000558F86d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f86,0
    85. c12t5080020000558F87d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f87,0
    86. c12t5080020000558F88d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f88,0
    87. c12t5080020000558F89d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f89,0
    88. c12t5080020000558F90d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f90,0
    89. c12t5080020000558F91d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f91,0
    90. c12t5080020000558F92d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f92,0
    91. c12t5080020000558F93d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f/disk@w5080020000558f93,0
    92. c13t5080020000559B8Ad0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b8a,0
    93. c13t5080020000559B8Bd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b8b,0
    94. c13t5080020000559B8Cd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b8c,0
    95. c13t5080020000559B8Dd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b8d,0
    96. c13t5080020000559B8Ed0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b8e,0
    97. c13t5080020000559B8Fd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b8f,0
    98. c13t5080020000559B80d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b80,0
    99. c13t5080020000559B81d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b81,0
   100. c13t5080020000559B82d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b82,0
   101. c13t5080020000559B83d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b83,0
   102. c13t5080020000559B84d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b84,0
   103. c13t5080020000559B85d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b85,0
   104. c13t5080020000559B86d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b86,0
   105. c13t5080020000559B87d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b87,0
   106. c13t5080020000559B88d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b88,0
   107. c13t5080020000559B89d0 <ATA-MARVELLSD88SA02-D129 cyl
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23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b89,0
    108. c13t5080020000559B90d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b90,0
    109. c13t5080020000559B91d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b91,0
    110. c13t5080020000559B92d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
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    111. c13t5080020000559B93d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559b93,0
    112. c14t5080020000559B0Ad0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b0a,0
    113. c14t5080020000559B0Bd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b0b,0
    114. c14t5080020000559B0Cd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b0c,0
    115. c14t5080020000559B0Dd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b0d,0
    116. c14t5080020000559B0Ed0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b0e,0
    117. c14t5080020000559B0Fd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b0f,0
    118. c14t5080020000559B00d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b00,0
    119. c14t5080020000559B01d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b01,0
    120. c14t5080020000559B02d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b02,0
    121. c14t5080020000559B03d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b03,0
    122. c14t5080020000559B04d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b04,0
    123. c14t5080020000559B05d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b05,0
    124. c14t5080020000559B06d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b06,0
    125. c14t5080020000559B07d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b07,0
    126. c14t5080020000559B08d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b08,0
    127. c14t5080020000559B09d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b09,0
    128. c14t5080020000559B10d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b10,0
    129. c14t5080020000559B11d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b11,0
    130. c14t5080020000559B12d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b12,0
    131. c14t5080020000559B13d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,340e@7/pci111d,806e@0/pci111d,806e@4/pci1000,
30b0@0/iport@f0/disk@w5080020000559b13,0
    132. c15t5080020000559BC0d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f0/disk@w5080020000559bc0,0
    133. c15t5080020000559BC1d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f0/disk@w5080020000559bc1,0
    134. c15t5080020000559BC2d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f0/disk@w5080020000559bc2,0
    135. c15t5080020000559BC3d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f0/disk@w5080020000559bc3,0
    136. c15t5080020000559BC4d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bc4,0
    137. c15t5080020000559BC5d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bc5,0
    138. c15t5080020000559BC6d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bc6,0
    139. c15t5080020000559BC7d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bc7,0
    140. c15t5080020000559BC8d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bc8,0
    141. c15t5080020000559BC9d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bc9,0
    142. c15t5080020000559BCAd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bca,0
    143. c15t5080020000559BCBd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bcb,0
    144. c15t5080020000559BCCd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bcc,0
    145. c15t5080020000559BCDd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bcd,0
    146. c15t5080020000559BCEd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bce,0
    147. c15t5080020000559BCFd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bcf,0
    148. c15t5080020000559BD0d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bd0,0
    149. c15t5080020000559BD1d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
30b0@0/iport@f0/disk@w5080020000559bd1,0
    150. c15t5080020000559BD2d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000,
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30b0@0/iport@f0/disk@w5080020000559bd2,0
    151. c15t5080020000559BD3d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@2/pci1000
,30b0@0/iport@f0/disk@w5080020000559bd3,0
    152. c16t5080020000559B4Ad0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b4a,0
    153. c16t5080020000559B4Bd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b4b,0
    154. c16t5080020000559B4Cd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b4c,0
    155. c16t5080020000559B4Dd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b4d,0
    156. c16t5080020000559B4Ed0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b4e,0
    157. c16t5080020000559B4Fd0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b4f,0
    158. c16t5080020000559B40d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b40,0
    159. c16t5080020000559B41d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b41,0
    160. c16t5080020000559B42d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b42,0
    161. c16t5080020000559B43d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b43,0
    162. c16t5080020000559B44d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b44,0
    163. c16t5080020000559B45d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b45,0
    164. c16t5080020000559B46d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b46,0
    165. c16t5080020000559B47d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b47,0
    166. c16t5080020000559B48d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b48,0
    167. c16t5080020000559B49d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b49,0
    168. c16t5080020000559B50d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b50,0
    169. c16t5080020000559B51d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b51,0
    170. c16t5080020000559B52d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b52,0
    171. c16t5080020000559B53d0 <ATA-MARVELLSD88SA02-D129 cyl
23434 alt 2 hd 16 sec 128>
        /pci@0,0/pci8086,3410@9/pci111d,806e@0/pci111d,806e@4/pci1000
,30b0@0/iport@f0/disk@w5080020000559b53,0
Specify disk (enter its number):
```

prtdiag – DATA heads

```
System Configuration: SUN MICROSYSTEMS SUN FIRE X4275 SERVER
BIOS Configuration: American Megatrends Inc. 07060223 03/04/2010
BMC Configuration: IPMI 1.5 (KCS: Keyboard Controller Style)

==== Processor Sockets ====================================

Version                          Location Tag
-------------------------------- --------------------------
Intel(R) Xeon(R) CPU           E5540  @ 2.53GHz CPU 1

==== Memory Device Sockets ================================

Type        Status Set Device Locator      Bank Locator
----------- ------ --- ------------------- ----------------
Unknown     in use 0   D2                  BANK2
Unknown     empty  0   D1                  BANK1
Unknown     empty  0   D0                  BANK0
Unknown     in use 0   D5                  BANK5
Unknown     empty  0   D4                  BANK4
Unknown     empty  0   D3                  BANK3
Unknown     in use 0   D8                  BANK8
Unknown     empty  0   D7                  BANK7
Unknown     empty  0   D6                  BANK6
Unknown     empty  0   D2                  BANK2
Unknown     empty  0   D1                  BANK1
Unknown     empty  0   D0                  BANK0
Unknown     empty  0   D5                  BANK5
Unknown     empty  0   D4                  BANK4
Unknown     empty  0   D3                  BANK3
Unknown     empty  0   D8                  BANK8
Unknown     empty  0   D7                  BANK7
Unknown     empty  0   D6                  BANK6
FLASH       in use 0

==== On-Board Devices =====================================
 Zoar 2x GbE.
 Zoar 2x GbE.
 Zoar 2x GbE.
 Zoar 2x GbE.

==== Upgradeable Slots ====================================

ID  Status    Type             Description
--- --------- ---------------- ----------------------------
0   in use    PCI Express      PCIE0
1   in use    PCI Express      PCIE1
2   in use    PCI Express      PCIE2
3   in use    PCI Express      PCIE3
4   in use    PCI Express      PCIE4
5   in use    PCI Express      PCIE5
```

prtconf – DATA heads

```
System Configuration:  Sun Microsystems  i86pc
Memory size: 6136 Megabytes
System Peripherals (Software Nodes):

i86pc
    scsi_vhci, instance #0
    pci, instance #0
        pci108e,4845 (driver not attached)
        pci8086,3408, instance #0
            pci108e,0, instance #0
            pci108e,0, instance #1 (driver not attached)
        pci8086,3409, instance #1
            pci108e,0, instance #2 (driver not attached)
            pci108e,0, instance #3 (driver not attached)
        pci8086,340a, instance #2
            pci1077,171, instance #0
            pci1077,171, instance #1
        pci8086,340c, instance #3
            pci1000,3150, instance #0
                sd, instance #0
                sd, instance #2
                sd, instance #3
                sd, instance #8
                sd, instance #4
                sd, instance #5
                sd, instance #6
                sd, instance #7
                sd, instance #9
                sd, instance #10
                sd, instance #11
                sd, instance #1
                smp, instance #0 (driver not attached)
                ses, instance #12 (driver not attached)
        pci8086,340e, instance #4
```

```
            pci111d,806e, instance #6
                pci111d,806e, instance #7
                    pci1000,30b0, instance #0
                        iport, instance #8
                            smp, instance #1 (driver not attached)
                            disk, instance #89
                            disk, instance #36
                            disk, instance #65
                            disk, instance #69
                            disk, instance #73
                            disk, instance #77
                            disk, instance #81
                            disk, instance #85
                            disk, instance #40
                            disk, instance #44
                            disk, instance #12
                            disk, instance #13
                            disk, instance #49
                            disk, instance #53
                            disk, instance #14
                            disk, instance #57
                            disk, instance #61
                            disk, instance #93
                            disk, instance #97
                            disk, instance #101
                            enclosure, instance #0 (driver not attached)
                        iport, instance #13
                            smp, instance #7 (driver not attached)
                            disk, instance #157
                            disk, instance #105
                            disk, instance #161
                            disk, instance #109
                            disk, instance #165
                            disk, instance #113
                            disk, instance #169
                            disk, instance #30
                            disk, instance #31
                            disk, instance #133
                            disk, instance #137
                            disk, instance #141
                            disk, instance #145
                            disk, instance #149
                            disk, instance #153
                            disk, instance #117
                            disk, instance #121
                            disk, instance #32
                            disk, instance #125
                            disk, instance #129
                            enclosure, instance #6 (driver not attached)
                        iport, instance #1
                pci111d,806e, instance #8
                    pci1000,30b0, instance #7
                        iport, instance #12
                            smp, instance #5 (driver not attached)
                            disk, instance #160
                            disk, instance #108
                            disk, instance #162
                            disk, instance #139
                            disk, instance #143
                            disk, instance #146
                            disk, instance #152
                            disk, instance #156
                            disk, instance #115
                            disk, instance #111
                            disk, instance #24
                            disk, instance #25
                            disk, instance #118
                            disk, instance #123
                            disk, instance #26
                            disk, instance #126
                            disk, instance #130
                            disk, instance #135
                            disk, instance #167
                            disk, instance #171
                            enclosure, instance #4 (driver not attached)
                        iport, instance #10
                            smp, instance #3 (driver not attached)
                            disk, instance #90
                            disk, instance #38
                            disk, instance #94
                            disk, instance #42
                            disk, instance #98
                            disk, instance #46
                            disk, instance #103
                            disk, instance #18
                            disk, instance #19
                            disk, instance #68
                            disk, instance #71
                            disk, instance #75
                            disk, instance #78
                            disk, instance #83
                            disk, instance #88
                            disk, instance #51
                            disk, instance #54
                            disk, instance #20
                            disk, instance #60
                            disk, instance #63
                            enclosure, instance #2 (driver not attached)
                        iport, instance #2
        pci8086,3410, instance #5
            pci111d,806e, instance #9
                pci111d,806e, instance #10
                    pci1000,30b0, instance #5
                        iport, instance #15
                            smp, instance #8 (driver not attached)
                            disk, instance #154
                            disk, instance #104
                            disk, instance #159
                            disk, instance #107
                            disk, instance #163
                            disk, instance #112
                            disk, instance #168
                            disk, instance #33
                            disk, instance #34
                            disk, instance #114
                            disk, instance #119
                            disk, instance #35
                            disk, instance #124
                            disk, instance #128
                            disk, instance #132
                            disk, instance #136
                            disk, instance #140
                            disk, instance #144
                            disk, instance #147
                            disk, instance #151
                            enclosure, instance #7 (driver not attached)
                        iport, instance #11
                            smp, instance #4 (driver not attached)
                            disk, instance #87
                            disk, instance #37
                            disk, instance #92
                            disk, instance #43
                            disk, instance #95
                            disk, instance #21
                            disk, instance #100
                            disk, instance #22
                            disk, instance #48
                            disk, instance #47
                            disk, instance #23
                            disk, instance #52
                            disk, instance #56
                            disk, instance #58
                            disk, instance #64
                            disk, instance #67
                            disk, instance #72
                            disk, instance #76
                            disk, instance #80
                            disk, instance #84
                            enclosure, instance #3 (driver not attached)
                        iport, instance #3
                pci111d,806e, instance #11
                    pci1000,30b0, instance #6
                        iport, instance #14
                            smp, instance #6 (driver not attached)
                            disk, instance #158
                            disk, instance #106
                            disk, instance #164
                            disk, instance #110
                            disk, instance #166
                            disk, instance #27
                            disk, instance #170
                            disk, instance #28
                            disk, instance #134
                            disk, instance #138
                            disk, instance #142
                            disk, instance #148
                            disk, instance #150
                            disk, instance #155
                            disk, instance #120
                            disk, instance #122
                            disk, instance #29
                            disk, instance #116
                            disk, instance #127
                            disk, instance #131
```

```
              enclosure, instance #5 (driver not attached)
            iport, instance #9
              smp, instance #2 (driver not attached)
              disk, instance #91
              disk, instance #39
              disk, instance #96
              disk, instance #41
              disk, instance #99
              disk, instance #45
              disk, instance #102
              disk, instance #15
              disk, instance #16
              disk, instance #66
              disk, instance #70
              disk, instance #74
              disk, instance #79
              disk, instance #82
              disk, instance #86
              disk, instance #50
              disk, instance #55
              disk, instance #17
              disk, instance #59
              disk, instance #62
              enclosure, instance #1 (driver not attached)
            iport, instance #4
    pci8086,342d (driver not attached)
    pci8086,342e (driver not attached)
    pci8086,3422 (driver not attached)
    pci8086,3423, instance #0
    pci8086,3438 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci108e,4845 (driver not attached)
    pci8086,244e, instance #0
      display, instance #0
    isa, instance #0
      motherboard (driver not attached)
      asy, instance #0
      motherboard (driver not attached)
      pit_beep, instance #0
    pci108e,4845, instance #0
    pci108e,4845 (driver not attached)
  ioapics (driver not attached)
    ioapic, instance #0 (driver not attached)
  fw, instance #0
    cpu, instance #0
    cpu, instance #1
    cpu, instance #2
    cpu, instance #3
    cpu, instance #4
    cpu, instance #5
    cpu, instance #6
    cpu, instance #7
    sb, instance #1
  used-resources (driver not attached)
  options, instance #0
  pseudo, instance #0
  agpgart, instance #0 (driver not attached)
  xsvc, instance #0
```

uname -a – DATA heads

```
SunOS data1 5.11 snv_134a i86pc i386 i86pc
```

/etc/vfstab – DATA heads

```
#device              device               mount                FS
          fsck       mount      mount
#to mount to fsck               point                type      pass
          at boot    options
#
/devices  -                     /devices  devfs      -         no
          -
/proc                -                    /proc                proc
          -          no         -
ctfs                 -                    /system/contract ctfs -
          no         -
objfs                -                    /system/object       objfs
          -          no         -
sharefs              -                    /etc/dfs/sharetab    sharefs
          -          no         -
fd                   -                    /dev/fd              fd
          -          no         -
swap                 -                    /tmp                 tmpfs
          -          yes        -

/dev/zvol/dsk/rpool/swap        -                    -
          swap       -          no        -
```

/etc/hosts – DATA heads

```
# CDDL HEADER START
#
# The contents of this file are subject to the terms of the
# Common Development and Distribution License (the "License").
# You may not use this file except in compliance with the License.
#
# You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
# or http://www.opensolaris.org/os/licensing.
# See the License for the specific language governing permissions
# and limitations under the License.
#
# When distributing Covered Code, include this CDDL HEADER in each
# file and include the License file at usr/src/OPENSOLARIS.LICENSE.
# If applicable, add the following below this CDDL HEADER, with the
# fields enclosed by brackets "[]" replaced with your own identifying
# information: Portions Copyright [yyyy] [name of copyright owner]
#
# CDDL HEADER END
#
# Copyright 2007 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
# ident	"%Z%%M%	%I%	%E% SMI"
#
# Internet host table
#
::1 data1.local localhost loghost
127.0.0.1 data1.local localhost loghost
10.196.104.1	data1 data1.west.sun.com

# NIS masters
10.196.232.10	minister196 minister196.west.sun.com
10.196.232.49	osol196 osol196.west.sun.com
```

metastat -p output – DATA heads

```
d9184 -p /dev/md/rdsk/d8004 -o 1414228992 -b 53248
d8004 -m /dev/md/rdsk/d8018 /dev/md/rdsk/d8019 0
d8018 1 1 /dev/rdsk/c2t10d0s6
d8019 1 1 /dev/rdsk/c2t11d0s6
d9183 -p /dev/md/rdsk/d8003 -o 1476262912 -b 8194048
d8003 -m /dev/md/rdsk/d8016 /dev/md/rdsk/d8017 0
d8016 1 1 /dev/rdsk/c2t8d0s6
d8017 1 1 /dev/rdsk/c2t9d0s6
d9182 -p /dev/md/rdsk/d8002 -o 1405524992 -b 8194048
d8002 -m /dev/md/rdsk/d8014 /dev/md/rdsk/d8015 0
d8014 1 1 /dev/rdsk/c2t6d0s6
d8015 1 1 /dev/rdsk/c2t7d0s6
d9181 -p /dev/md/rdsk/d8001 -o 1405524992 -b 16582656
d8001 -m /dev/md/rdsk/d8012 /dev/md/rdsk/d8013 0
d8012 1 1 /dev/rdsk/c2t4d0s6
d8013 1 1 /dev/rdsk/c2t5d0s6
d9180 -p /dev/md/rdsk/d8000 -o 1375551488 -b 227328
d8000 -m /dev/md/rdsk/d8010 /dev/md/rdsk/d8011 0
d8010 1 1 /dev/rdsk/c2t2d0s6
d8011 1 1 /dev/rdsk/c2t3d0s6
d9179 -p /dev/md/rdsk/d8004 -o 1414000640 -b 227328
d9178 -p /dev/md/rdsk/d8003 -o 1446010880 -b 30251008
d9177 -p /dev/md/rdsk/d8002 -o 1375272960 -b 30251008
d9176 -p /dev/md/rdsk/d8001 -o 1375272960 -b 30251008
d9175 -p /dev/md/rdsk/d8000 -o 1345299456 -b 30251008
d9174 -p /dev/md/rdsk/d8004 -o 1303815168 -b 110184448
d9173 -p /dev/md/rdsk/d8003 -o 1335825408 -b 110184448
d9172 -p /dev/md/rdsk/d8002 -o 1342911488 -b 32360448
d9164 -p /dev/md/rdsk/d8004 -o 1271204864 -b 247808
d9171 -p /dev/md/rdsk/d8001 -o 1342911488 -b 32360448
d9170 -p /dev/md/rdsk/d8000 -o 1312937984 -b 32360448
d9169 -p /dev/md/rdsk/d8004 -o 1271453696 -b 32360448
d9168 -p /dev/md/rdsk/d8003 -o 1303463936 -b 32360448
d9167 -p /dev/md/rdsk/d8002 -o 1310550016 -b 32360448
d9166 -p /dev/md/rdsk/d8001 -o 1310550016 -b 32360448
d9165 -p /dev/md/rdsk/d8000 -o 1280576512 -b 32360448
d9163 -p /dev/md/rdsk/d8003 -o 1271204864 -b 32258048
d9162 -p /dev/md/rdsk/d8002 -o 1178450944 -b 132098048
```

```
d9161 -p /dev/md/rdsk/d8001 -o 1178450944 -b 132098048
d9160 -p /dev/md/rdsk/d8000 -o 1148477440 -b 132098048
d9159 -p /dev/md/rdsk/d8004 -o 1139105792 -b 132098048
d9158 -p /dev/md/rdsk/d8003 -o 1139105792 -b 132098048
d9150 -p /dev/md/rdsk/d8000 -o 884279296 -b 132098048
d9149 -p /dev/md/rdsk/d8004 -o 874907648 -b 132098048
d9148 -p /dev/md/rdsk/d8003 -o 874907648 -b 132098048
d9157 -p /dev/md/rdsk/d8002 -o 1046351872 -b 132098048
d9156 -p /dev/md/rdsk/d8001 -o 1046351872 -b 132098048
d9155 -p /dev/md/rdsk/d8000 -o 1016378368 -b 132098048
d9154 -p /dev/md/rdsk/d8004 -o 1007006720 -b 132098048
d9153 -p /dev/md/rdsk/d8003 -o 1007006720 -b 132098048
d9152 -p /dev/md/rdsk/d8002 -o 914252800 -b 132098048
d9151 -p /dev/md/rdsk/d8001 -o 914252800 -b 132098048
d9147 -p /dev/md/rdsk/d8002 -o 881338368 -b 32913408
d9146 -p /dev/md/rdsk/d8001 -o 881338368 -b 32913408
d9145 -p /dev/md/rdsk/d8000 -o 851364864 -b 32913408
d9144 -p /dev/md/rdsk/d8004 -o 841993216 -b 32913408
d9143 -p /dev/md/rdsk/d8003 -o 841993216 -b 32913408
d9135 -p /dev/md/rdsk/d8000 -o 785536000 -b 32913408
d9134 -p /dev/md/rdsk/d8004 -o 776164352 -b 32913408
d9133 -p /dev/md/rdsk/d8003 -o 776164352 -b 32913408
d9132 -p /dev/md/rdsk/d8002 -o 782595072 -b 32913408
d9142 -p /dev/md/rdsk/d8002 -o 848423936 -b 32913408
d9141 -p /dev/md/rdsk/d8001 -o 848423936 -b 32913408
d9140 -p /dev/md/rdsk/d8000 -o 818450432 -b 32913408
d9139 -p /dev/md/rdsk/d8004 -o 809078784 -b 32913408
d9138 -p /dev/md/rdsk/d8003 -o 809078784 -b 32913408
d9137 -p /dev/md/rdsk/d8002 -o 815509504 -b 32913408
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/dev/rdsk/c12t5080020000558F93d0s5
/dev/rdsk/c14t5080020000559B13d0s5
/dev/rdsk/c16t5080020000559B53d0s5
/dev/rdsk/c10t5080020000558F53d0s5 -i 256b
d113 -p /dev/md/rdsk/d1 -o 1526767104 -b 229963776
d112 -p /dev/md/rdsk/d1 -o 1296803072 -b 229963776
d111 -p /dev/md/rdsk/d1 -o 1066839040 -b 229963776
d110 -p /dev/md/rdsk/d1 -o 738571008 -b 328267776
d109 -p /dev/md/rdsk/d1 -o 311998976 -b 426571776
d108 -p /dev/md/rdsk/d1 -o 256 -b 311998464
d107 -p /dev/md/rdsk/d0 -o 1773000448 -b 32851968
d0 1 160 /dev/rdsk/c9t5080020000558FC0d0s4
/dev/rdsk/c11t5080020000558F0Ad0s4
/dev/rdsk/c13t5080020000559B8Ad0s4
/dev/rdsk/c15t5080020000559BC0d0s4
/dev/rdsk/c9t5080020000558FC1d0s4
/dev/rdsk/c11t5080020000558F0Bd0s4
/dev/rdsk/c13t5080020000559B8Bd0s4
/dev/rdsk/c15t5080020000559BC1d0s4
/dev/rdsk/c9t5080020000558FC2d0s4
/dev/rdsk/c11t5080020000558F0Cd0s4
/dev/rdsk/c13t5080020000559B8Cd0s4
/dev/rdsk/c15t5080020000559BC2d0s4
/dev/rdsk/c9t5080020000558FC3d0s4
/dev/rdsk/c11t5080020000558F0Dd0s4
/dev/rdsk/c13t5080020000559B8Dd0s4
/dev/rdsk/c15t5080020000559BC3d0s4
/dev/rdsk/c9t5080020000558FC4d0s4
/dev/rdsk/c11t5080020000558F0Ed0s4
/dev/rdsk/c13t5080020000559B8Ed0s4
/dev/rdsk/c15t5080020000559BC4d0s4
/dev/rdsk/c9t5080020000558FC5d0s4
/dev/rdsk/c11t5080020000558F0Fd0s4
/dev/rdsk/c13t5080020000559B8Fd0s4
/dev/rdsk/c15t5080020000559BC5d0s4
/dev/rdsk/c9t5080020000558FC6d0s4
/dev/rdsk/c11t5080020000558F00d0s4
/dev/rdsk/c13t5080020000559B80d0s4
/dev/rdsk/c15t5080020000559BC6d0s4
/dev/rdsk/c9t5080020000558FC7d0s4
/dev/rdsk/c11t5080020000558F01d0s4
/dev/rdsk/c13t5080020000559B81d0s4
/dev/rdsk/c15t5080020000559BC7d0s4
/dev/rdsk/c9t5080020000558FC8d0s4
/dev/rdsk/c11t5080020000558F02d0s4
/dev/rdsk/c13t5080020000559B82d0s4
/dev/rdsk/c15t5080020000559BC8d0s4
/dev/rdsk/c9t5080020000558FC9d0s4
/dev/rdsk/c11t5080020000558F03d0s4
/dev/rdsk/c13t5080020000559B83d0s4
/dev/rdsk/c15t5080020000559BC9d0s4
/dev/rdsk/c9t5080020000558FCAd0s4
/dev/rdsk/c11t5080020000558F04d0s4
/dev/rdsk/c13t5080020000559B84d0s4
/dev/rdsk/c15t5080020000559BCAd0s4
/dev/rdsk/c9t5080020000558FCBd0s4
/dev/rdsk/c11t5080020000558F05d0s4
/dev/rdsk/c13t5080020000559B85d0s4
/dev/rdsk/c15t5080020000559BCBd0s4
/dev/rdsk/c9t5080020000558FCCd0s4
/dev/rdsk/c11t5080020000558F06d0s4
/dev/rdsk/c13t5080020000559B86d0s4
/dev/rdsk/c15t5080020000559BCCd0s4
/dev/rdsk/c9t5080020000558FCDd0s4
/dev/rdsk/c11t5080020000558F07d0s4
/dev/rdsk/c13t5080020000559B87d0s4
/dev/rdsk/c15t5080020000559BCDd0s4
/dev/rdsk/c9t5080020000558FCEd0s4
/dev/rdsk/c11t5080020000558F08d0s4
/dev/rdsk/c13t5080020000559B88d0s4
/dev/rdsk/c15t5080020000559BCEd0s4
/dev/rdsk/c9t5080020000558FCFd0s4
/dev/rdsk/c11t5080020000558F09d0s4
/dev/rdsk/c13t5080020000559B89d0s4
/dev/rdsk/c15t5080020000559BCFd0s4
/dev/rdsk/c9t5080020000558FD0d0s4
/dev/rdsk/c11t5080020000558F10d0s4
/dev/rdsk/c13t5080020000559B90d0s4
/dev/rdsk/c15t5080020000559BD0d0s4
/dev/rdsk/c9t5080020000558FD1d0s4
/dev/rdsk/c11t5080020000558F11d0s4
/dev/rdsk/c13t5080020000559B91d0s4
/dev/rdsk/c15t5080020000559BD1d0s4
/dev/rdsk/c9t5080020000558FD2d0s4
/dev/rdsk/c11t5080020000558F12d0s4
/dev/rdsk/c13t5080020000559B92d0s4
/dev/rdsk/c15t5080020000559BD2d0s4
/dev/rdsk/c9t5080020000558FD3d0s4
/dev/rdsk/c11t5080020000558F13d0s4
/dev/rdsk/c13t5080020000559B93d0s4
/dev/rdsk/c15t5080020000559BD3d0s4
/dev/rdsk/c10t5080020000558F4Ad0s4
/dev/rdsk/c12t5080020000558F8Ad0s4
/dev/rdsk/c14t5080020000559B0Ad0s4
/dev/rdsk/c16t5080020000559B4Ad0s4
/dev/rdsk/c10t5080020000558F4Bd0s4
/dev/rdsk/c12t5080020000558F8Bd0s4
/dev/rdsk/c14t5080020000559B0Bd0s4
/dev/rdsk/c16t5080020000559B4Bd0s4
/dev/rdsk/c10t5080020000558F4Cd0s4
/dev/rdsk/c12t5080020000558F8Cd0s4
/dev/rdsk/c14t5080020000559B0Cd0s4
/dev/rdsk/c16t5080020000559B4Cd0s4
/dev/rdsk/c10t5080020000558F4Dd0s4
/dev/rdsk/c12t5080020000558F8Dd0s4
/dev/rdsk/c14t5080020000559B0Dd0s4
/dev/rdsk/c16t5080020000559B4Dd0s4
/dev/rdsk/c10t5080020000558F4Ed0s4
/dev/rdsk/c12t5080020000558F8Ed0s4
/dev/rdsk/c14t5080020000559B0Ed0s4
/dev/rdsk/c16t5080020000559B4Ed0s4
/dev/rdsk/c10t5080020000558F4Fd0s4
/dev/rdsk/c12t5080020000558F8Fd0s4
/dev/rdsk/c14t5080020000559B0Fd0s4
/dev/rdsk/c16t5080020000559B4Fd0s4
/dev/rdsk/c10t5080020000558F40d0s4
/dev/rdsk/c12t5080020000558F80d0s4
/dev/rdsk/c14t5080020000559B00d0s4
/dev/rdsk/c16t5080020000559B40d0s4
/dev/rdsk/c10t5080020000558F41d0s4
/dev/rdsk/c12t5080020000558F81d0s4
/dev/rdsk/c14t5080020000559B01d0s4
/dev/rdsk/c16t5080020000559B41d0s4
/dev/rdsk/c10t5080020000558F42d0s4
/dev/rdsk/c12t5080020000558F82d0s4
/dev/rdsk/c14t5080020000559B02d0s4
/dev/rdsk/c16t5080020000559B42d0s4
/dev/rdsk/c10t5080020000558F43d0s4
/dev/rdsk/c12t5080020000558F83d0s4
/dev/rdsk/c14t5080020000559B03d0s4
/dev/rdsk/c16t5080020000559B43d0s4
/dev/rdsk/c10t5080020000558F44d0s4
/dev/rdsk/c12t5080020000558F84d0s4
/dev/rdsk/c14t5080020000559B04d0s4
/dev/rdsk/c16t5080020000559B44d0s4
/dev/rdsk/c10t5080020000558F45d0s4
/dev/rdsk/c12t5080020000558F85d0s4
/dev/rdsk/c14t5080020000559B05d0s4
/dev/rdsk/c16t5080020000559B45d0s4
/dev/rdsk/c10t5080020000558F46d0s4
/dev/rdsk/c12t5080020000558F86d0s4
/dev/rdsk/c14t5080020000559B06d0s4
/dev/rdsk/c16t5080020000559B46d0s4
/dev/rdsk/c10t5080020000558F47d0s4
/dev/rdsk/c12t5080020000558F87d0s4
/dev/rdsk/c14t5080020000559B07d0s4
/dev/rdsk/c16t5080020000559B47d0s4
/dev/rdsk/c10t5080020000558F48d0s4
/dev/rdsk/c12t5080020000558F88d0s4
/dev/rdsk/c14t5080020000559B08d0s4
/dev/rdsk/c16t5080020000559B48d0s4
/dev/rdsk/c10t5080020000558F49d0s4
/dev/rdsk/c12t5080020000558F89d0s4
/dev/rdsk/c14t5080020000559B09d0s4
/dev/rdsk/c16t5080020000559B49d0s4
/dev/rdsk/c10t5080020000558F50d0s4
/dev/rdsk/c12t5080020000558F90d0s4
/dev/rdsk/c14t5080020000559B10d0s4
/dev/rdsk/c16t5080020000559B50d0s4
/dev/rdsk/c10t5080020000558F51d0s4
/dev/rdsk/c12t5080020000558F91d0s4
/dev/rdsk/c14t5080020000559B11d0s4
/dev/rdsk/c16t5080020000559B51d0s4
/dev/rdsk/c10t5080020000558F52d0s4
/dev/rdsk/c12t5080020000558F92d0s4
/dev/rdsk/c14t5080020000559B12d0s4
/dev/rdsk/c16t5080020000559B52d0s4
/dev/rdsk/c10t5080020000558F53d0s4
/dev/rdsk/c12t5080020000558F93d0s4
/dev/rdsk/c14t5080020000559B13d0s4
/dev/rdsk/c16t5080020000559B53d0s4 -i 256b
d106 -p /dev/md/rdsk/d0 -o 1543036416 -b 229963776
```

```
d105 -p /dev/md/rdsk/d0 -o 1313072384 -b 229963776
d104 -p /dev/md/rdsk/d0 -o 1083108352 -b 229963776
d103 -p /dev/md/rdsk/d0 -o 754840320 -b 328267776
d102 -p /dev/md/rdsk/d0 -o 328268288 -b 426571776
d101 -p /dev/md/rdsk/d0 -o 256 -b 328267776
d9000 -p /dev/md/rdsk/d8000 -o 1024 -b 2097152
```

sbdadm output – DATA heads

```
COMSTAR mapping of raw device to export devices UID

Found 28 LU(s)

              GUID                    DATA SIZE           SOURCE
--------------------------------  -------------------  ----------------
600144f0a3770e00000000000d01d101  168073035776
/dev/md/rdsk/d101
600144f0a3770e00000000000d01d102  218404683776
/dev/md/rdsk/d102
600144f0a3770e00000000000d01d103  168073035776
/dev/md/rdsk/d103
600144f0a3770e00000000000d01d104  117741387776
/dev/md/rdsk/d104
600144f0a3770e00000000000d01d105  117741387776
/dev/md/rdsk/d105
600144f0a3770e00000000000d01d106  117741387776
/dev/md/rdsk/d106
600144f0a3770e00000000000d01d107  16820142080
/dev/md/rdsk/d107
600144f0a3770e00000000000d01d108  159743148032
/dev/md/rdsk/d108
600144f0a3770e00000000000d01d109  218404683776
/dev/md/rdsk/d109
600144f0a3770e00000000000d01d110  168073035776
/dev/md/rdsk/d110
600144f0a3770e00000000000d01d111  117741387776
/dev/md/rdsk/d111
600144f0a3770e00000000000d01d112  117741387776
/dev/md/rdsk/d112
600144f0a3770e00000000000d01d113  117741387776
/dev/md/rdsk/d113
600144f0a3770e00000000000d01d114  16820142080
/dev/md/rdsk/d114
600144f0a3770e00000000000d01d115  159743148032
/dev/md/rdsk/d115
600144f0a3770e00000000000d01d116  218404683776
/dev/md/rdsk/d116
600144f0a3770e00000000000d01d117  168073035776
/dev/md/rdsk/d117
600144f0a3770e00000000000d01d118  117741387776
/dev/md/rdsk/d118
600144f0a3770e00000000000d01d119  117741387776
/dev/md/rdsk/d119
600144f0a3770e00000000000d01d120  117741387776
/dev/md/rdsk/d120
600144f0a3770e00000000000d01d121  16820142080
/dev/md/rdsk/d121
600144f0a3770e00000000000d01d122  218404683776
/dev/md/rdsk/d122
600144f0a3770e00000000000d01d123  168073035776
/dev/md/rdsk/d123
600144f0a3770e00000000000d01d124  168073035776
/dev/md/rdsk/d124
600144f0a3770e00000000000d01d125  117741387776
/dev/md/rdsk/d125
600144f0a3770e00000000000d01d126  117741387776
/dev/md/rdsk/d126
600144f0a3770e00000000000d01d127  117741387776
/dev/md/rdsk/d127
600144f0a3770e0000004c488c900001  1073676288
/dev/md/rdsk/d9000
```

stmfadm output – DATA heads

```
COMSTAR UIDs that are exported
LU Name: 600144F0A3770E00000000000D01D101
LU Name: 600144F0A3770E00000000000D01D102
LU Name: 600144F0A3770E00000000000D01D103
LU Name: 600144F0A3770E00000000000D01D104
LU Name: 600144F0A3770E00000000000D01D105
LU Name: 600144F0A3770E00000000000D01D106
LU Name: 600144F0A3770E00000000000D01D107
LU Name: 600144F0A3770E00000000000D01D108
LU Name: 600144F0A3770E00000000000D01D109
LU Name: 600144F0A3770E00000000000D01D110
LU Name: 600144F0A3770E00000000000D01D111
LU Name: 600144F0A3770E00000000000D01D112
LU Name: 600144F0A3770E00000000000D01D113
LU Name: 600144F0A3770E00000000000D01D114
LU Name: 600144F0A3770E00000000000D01D115
LU Name: 600144F0A3770E00000000000D01D116
LU Name: 600144F0A3770E00000000000D01D117
LU Name: 600144F0A3770E00000000000D01D118
LU Name: 600144F0A3770E00000000000D01D119
LU Name: 600144F0A3770E00000000000D01D120
LU Name: 600144F0A3770E00000000000D01D121
LU Name: 600144F0A3770E00000000000D01D122
LU Name: 600144F0A3770E00000000000D01D123
LU Name: 600144F0A3770E00000000000D01D124
LU Name: 600144F0A3770E00000000000D01D125
LU Name: 600144F0A3770E00000000000D01D126
LU Name: 600144F0A3770E00000000000D01D127
LU Name: 600144F0A3770E0000004C488C900001
```

/etc/system – DATA heads

```
*ident	"%Z%%M%	%I%	%E% SMI" /* SVR4 1.5 */
*
* CDDL HEADER START
*
* The contents of this file are subject to the terms of the
* Common Development and Distribution License, Version 1.0 only
* (the "License").  You may not use this file except in compliance
* with the License.
*
* You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
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* See the License for the specific language governing permissions
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* file and include the License file at usr/src/OPENSOLARIS.LICENSE.
* If applicable, add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your own identifying
* information: Portions Copyright [yyyy] [name of copyright owner]
*
* CDDL HEADER END
*
*
* SYSTEM SPECIFICATION FILE
*

* moddir:
*
*	Set the search path for modules.  This has a format similar to the
*	csh path variable. If the module isn't found in the first directory
*	it tries the second and so on. The default is /kernel /usr/kernel
*
*	Example:
*		moddir: /kernel /usr/kernel /other/modules



* root device and root filesystem configuration:
*
*	The following may be used to override the defaults provided by
*	the boot program:
*
*	rootfs:			Set the filesystem type of the root.
*
*	rootdev:	Set the root device.  This should be a fully
*			expanded physical pathname.  The default
is the
*			physical pathname of the device where the
boot
*			program resides.  The physical pathname is
*			highly platform and configuration
dependent.
*
*	Example:
*		rootfs:ufs
*		rootdev:/sbus@1,f8000000/esp@0,800000/sd@3,0:a
*
*	(Swap device configuration should be specified in /etc/vfstab.)



* exclude:
*
*	Modules appearing in the moddir path which are NOT to be
loaded,
*	even if referenced. Note that `exclude' accepts either a module
name,
*	or a filename which includes the directory.
*
*	Examples:
*		exclude: win
```

```
*                               exclude: sys/shmsys



* forceload:
*
*               Cause these modules to be loaded at boot time, (just before
mounting
*               the root filesystem) rather than at first reference. Note that
*               forceload expects a filename which includes the directory. Also
*               note that loading a module does not necessarily imply that it will
*               be installed.
*
*               Example:
*                               forceload: drv/foo



* set:
*
*               Set an integer variable in the kernel or a module to a new value.
*               This facility should be used with caution.  See system(4).
*
*               Examples:
*
*               To set variables in 'unix':
*
*                               set nautopush=32
*                               set maxusers=40
*
*               To set a variable named 'debug' in the module named
'test_module'
*
*                               set test_module:debug = 0x13

exclude: ehci
exclude: uhci
set autoup=300
set md_mirror:md_resync_bufsz = 2048
set md:md_maxphys=131072
set maxphys=131072
```

mpt.conf output – DATA heads

```
#
# Copyright 2008 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#

#
# The mpt driver, as a pHCI driver, must specify the vHCI class it
# belongs to(scsi_vhci).
#
ddi-vhci-class="scsi_vhci";
#
# I/O multipathing feature (MPxIO) can be enabled or disabled using
# mpxio-disable property. Setting mpxio-disable="no" will activate
# I/O multipathing; setting mpxio-disable="yes" disables the feature.
#
# Global mpxio-disable property:
#
# To globally enable MPxIO on all mpt controllers set:
# mpxio-disable="no";
#
# To globally disable MPxIO on all mpt controllers set:
# mpxio-disable="yes";
#
# You can also enable or disable MPxIO on a per HBA basis.
# Per HBA settings override the global setting for the specified HBAs.
# To disable MPxIO on a controller whose parent is /pci@7c0/pci@0/pci@9
# and the unit-address is "0" set:
# name="mpt" parent="/pci@7c0/pci@0/pci@9" unit-address="0" mpxio-
disable="yes";
#
mpxio-disable="yes";

#
# SATA mpxio supported
#
# To disable SATA mpxio, set
# disable-sata-mpxio="yes";
# When mpxio-disable="yes" is set, the disable-sata-mpxio property
# takes no effect
#
disable-sata-mpxio="no";
```

/etc/project – DATA heads

```
system:0::::
user.root:1::::
noproject:2::::
default:3::::
group.staff:10::::
```

/etc/user_attr – DATA heads

```
#
# Copyright 2009 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
# CDDL HEADER START
#
# The contents of this file are subject to the terms of the
# Common Development and Distribution License (the "License").
# You may not use this file except in compliance with the License.
#
# You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
# or http://www.opensolaris.org/os/licensing.
# See the License for the specific language governing permissions
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#
# When distributing Covered Code, include this CDDL HEADER in each
# file and include the License file at usr/src/OPENSOLARIS.LICENSE.
# If applicable, add the following below this CDDL HEADER, with the
# fields enclosed by brackets "[]" replaced with your own identifying
# information: Portions Copyright [yyyy] [name of copyright owner]
#
# CDDL HEADER END
#
# /etc/user_attr
#
# user attributes. see user_attr(4)
#
#

dbbench::::type=normal;profiles=Primary Administrator;roles=root
dbd::::type=normal;profiles=Primary Administrator;roles=root
root::::type=normal;auths=solaris.*,solaris.grant;profiles=All;lock_after_retri
es=no;min_label=admin_low;clearance=admin_high
sas::::type=normal;profiles=Primary Administrator;roles=root
sasadm::::type=normal;profiles=Primary Administrator;roles=root
storage::::type=normal;profiles=Primary Administrator;roles=root
tpc::::type=normal;profiles=Primary Administrator
```

COMSTAR REDO HEADS

format output – REDO heads

```
Searching for disks...done


AVAILABLE DISK SELECTIONS:
       0. c2t0d0 <DEFAULT cyl 60754 alt 2 hd 255 sec 252>
          /pci@0,0/pci8086,340c@5/pci1000,9263@0/sd@0,0
       1. c2t1d0 <LSI-MR9261-8i-2.50-9.09TB>
          /pci@0,0/pci8086,340c@5/pci1000,9263@0/sd@1,0
       2. c2t2d0 <LSI-MR9261-8i-2.50-9.09TB>
          /pci@0,0/pci8086,340c@5/pci1000,9263@0/sd@2,0
       3. c3t0d0 <DEFAULT cyl 1946 alt 2 hd 255 sec 63>
          /pci@0,0/pci108e,4845@1d,7/storage@1/disk@0,0
Specify disk (enter its number):
```

prtdiag – REDO heads

```
System Configuration: SUN MICROSYSTEMS SUN FIRE X4275 SERVER
BIOS Configuration: American Megatrends Inc. 07060223 03/04/2010
BMC Configuration: IPMI 1.5 (KCS: Keyboard Controller Style)

==== Processor Sockets ====================================

Version                          Location Tag
-------------------------------- --------------------------
Intel(R) Xeon(R) CPU           E5540  @ 2.53GHz CPU 1

==== Memory Device Sockets ================================

Type        Status Set Device Locator      Bank Locator
----------- ------ --- ------------------- ----------------
Unknown     in use 0   D2                  BANK2
Unknown     empty  0   D1                  BANK1
Unknown     empty  0   D0                  BANK0
Unknown     in use 0   D5                  BANK5
Unknown     empty  0   D4                  BANK4
Unknown     empty  0   D3                  BANK3
Unknown     in use 0   D8                  BANK8
Unknown     empty  0   D7                  BANK7
Unknown     empty  0   D6                  BANK6
Unknown     empty  0   D2                  BANK2
```

```
Unknown     empty  0   D1              BANK1
Unknown     empty  0   D0              BANK0
Unknown     empty  0   D5              BANK5
Unknown     empty  0   D4              BANK4
Unknown     empty  0   D3              BANK3
Unknown     empty  0   D8              BANK8
Unknown     empty  0   D7              BANK7
Unknown     empty  0   D6              BANK6
FLASH       in use 0

==== On-Board Devices =====================================
 Zoar 2x GbE.
 Zoar 2x GbE.
 Zoar 2x GbE.
 Zoar 2x GbE.

==== Upgradeable Slots ====================================

ID  Status    Type           Description
--- --------- ---------------- ----------------------------
0   in use    PCI Express     PCIE0
1   available PCI Express     PCIE1
2   available PCI Express     PCIE2
3   in use    PCI Express     PCIE3
4   available PCI Express     PCIE4
5   available PCI Express     PCIE5
```

prtconf – REDO heads

```
System Configuration:  Sun Microsystems  i86pc
Memory size: 6136 Megabytes
System Peripherals (Software Nodes):

i86pc
    scsi_vhci, instance #0
    pci, instance #0
        pci108e,4845 (driver not attached)
        pci8086,3408, instance #0
            pci108e,0, instance #0
            pci108e,0, instance #1 (driver not attached)
        pci8086,3409, instance #1
            pci108e,0, instance #2 (driver not attached)
            pci108e,0, instance #3 (driver not attached)
        pci8086,340a, instance #2
            pci1077,171, instance #0
            pci1077,171, instance #1
        pci8086,340c, instance #3
            pci1000,9263, instance #0
                sd, instance #0
                sd, instance #1
                sd, instance #2
        pci8086,340e, instance #4
            pci111d,806e, instance #6
                pci111d,806e, instance #7
                pci111d,806e, instance #8
        pci8086,3410, instance #5
            pci111d,806e, instance #9
                pci111d,806e, instance #10
                pci111d,806e, instance #11
        pci8086,342d (driver not attached)
        pci8086,342e (driver not attached)
        pci8086,3422 (driver not attached)
        pci8086,3423, instance #0
        pci8086,3438 (driver not attached)
        pci108e,4845 (driver not attached)
        pci108e,4845 (driver not attached)
        pci108e,4845 (driver not attached)
        pci108e,4845 (driver not attached)
        pci108e,4845 (driver not attached)
        pci108e,4845 (driver not attached)
        pci108e,4845 (driver not attached)
        pci108e,4845 (driver not attached)
        pci108e,4845, instance #0
        pci108e,4845, instance #1
        pci108e,4845, instance #2
            device, instance #0
                keyboard, instance #0
                mouse, instance #1
        pci108e,4845, instance #0
            hub, instance #0
        pci108e,4845, instance #3
        pci108e,4845, instance #4
        pci108e,4845, instance #5
        pci108e,4845, instance #1
            storage, instance #0
                disk, instance #4
        pci8086,244e, instance #0
            display, instance #0
        isa, instance #0
            motherboard (driver not attached)
            asy, instance #0
            motherboard (driver not attached)
            pit_beep, instance #0
        pci108e,4845, instance #0
        pci108e,4845 (driver not attached)
    ioapics (driver not attached)
        ioapic, instance #0 (driver not attached)
    fw, instance #0
        cpu, instance #0
        cpu, instance #1
        cpu, instance #2
        cpu, instance #3
        cpu, instance #4
        cpu, instance #5
        cpu, instance #6
        cpu, instance #7
        sb, instance #1
    used-resources (driver not attached)
    options, instance #0
    pseudo, instance #0
    agpgart, instance #0 (driver not attached)
    xsvc, instance #0
```

uname -a output – REDO heads

```
SunOS redo1 5.11 snv_134a i86pc i386 i86pc
```

/etc/vfstab – REDO heads

```
#device         device          mount           FS
        fsck    mount   mount
#to mount  to fsck      point           type    pass
        at boot options
#
/devices  -             /devices  devfs   -       no
        -
/proc           -               /proc           proc
        -       no      -
ctfs            -               /system/contract ctfs  -
        no      -
objfs           -               /system/object  objfs
        -       no      -
sharefs         -               /etc/dfs/sharetab       sharefs
        -       no      -
fd              -               /dev/fd         fd
        -       no      -
swap            -               /tmp            tmpfs
        -       yes     -

/dev/zvol/dsk/rpool/swap        -               -
        swap    -       no      -
```

/etc/hosts – REDO heads

```
# CDDL HEADER START
#
# The contents of this file are subject to the terms of the
# Common Development and Distribution License (the "License").
# You may not use this file except in compliance with the License.
#
# You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
# or http://www.opensolaris.org/os/licensing.
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# file and include the License file at usr/src/OPENSOLARIS.LICENSE.
# If applicable, add the following below this CDDL HEADER, with the
# fields enclosed by brackets "[]" replaced with your own identifying
# information: Portions Copyright [yyyy] [name of copyright owner]
#
# CDDL HEADER END
#
# Copyright 2007 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
# ident   "%Z%%M%         %I%     %E% SMI"
#
# Internet host table
#
::1 redo1.local localhost loghost
127.0.0.1 redo1.local localhost loghost
10.196.105.1        redo1 redo1.west.sun.com

# NIS masters
10.196.232.10       minister196 minister196.west.sun.com
10.196.232.28       osol196 osol196.west.sun.com
```

metastat -p output – REDO heads

```
d110 -p /dev/md/rdsk/d120 -o 1569259520 -b 229963776
d120 1 1 /dev/rdsk/c2t1d0s5
d109 -p /dev/md/rdsk/d130 -o 1339294720 -b 229963776
d130 1 1 /dev/rdsk/c2t2d0s5
d108 -p /dev/md/rdsk/d120 -o 1339294720 -b 229963776
d107 -p /dev/md/rdsk/d130 -o 1109329920 -b 229963776
d106 -p /dev/md/rdsk/d120 -o 1109329920 -b 229963776
d105 -p /dev/md/rdsk/d130 -o 879365120 -b 229963776
d104 -p /dev/md/rdsk/d120 -o 879365120 -b 229963776
d103 -p /dev/md/rdsk/d130 -o 649400320 -b 229963776
d102 -p /dev/md/rdsk/d120 -o 649400320 -b 229963776
d101 -p /dev/md/rdsk/d130 -o 419435520 -b 229963776
d100 -p /dev/md/rdsk/d120 -o 419435520 -b 229963776
d7134 -p /dev/md/rdsk/d130 -o 314576896 -b 104857600
d7133 -p /dev/md/rdsk/d130 -o 209718272 -b 104857600
d7132 -p /dev/md/rdsk/d130 -o 104859648 -b 104857600
d7131 -p /dev/md/rdsk/d130 -o 1024 -b 104857600
d7124 -p /dev/md/rdsk/d120 -o 314576896 -b 104857600
d7123 -p /dev/md/rdsk/d120 -o 209718272 -b 104857600
d7122 -p /dev/md/rdsk/d120 -o 104859648 -b 104857600
d7121 -p /dev/md/rdsk/d120 -o 1024 -b 104857600
d7034 -p /dev/md/rdsk/d3 -o 2516586496 -b 838860800
d3 1 1 /dev/rdsk/c2t2d0s4
d7033 -p /dev/md/rdsk/d3 -o 1677724672 -b 838860800
d7032 -p /dev/md/rdsk/d3 -o 838862848 -b 838860800
d7031 -p /dev/md/rdsk/d3 -o 1024 -b 838860800
d7024 -p /dev/md/rdsk/d2 -o 2516586496 -b 838860800
d2 1 1 /dev/rdsk/c2t1d0s4
d7023 -p /dev/md/rdsk/d2 -o 1677724672 -b 838860800
d7022 -p /dev/md/rdsk/d2 -o 838862848 -b 838860800
d7021 -p /dev/md/rdsk/d2 -o 1024 -b 838860800
```

sbdadm output – REDO heads

COMSTAR mapping of raw device to export device UID

```
Found 15 LU(s)

              GUID                    DATA SIZE           SOURCE
--------------------------------  -------------------  ----------------
600144f0a3770e00000000000a01c210  429496664064
/dev/rdsk/c2t1d0s0
600144f0a3770e00000000000a01c211  429496664064
/dev/rdsk/c2t1d0s1
600144f0a3770e00000000000a01c220  429496664064
/dev/rdsk/c2t2d0s0
600144f0a3770e00000000000a01c221  429496664064
/dev/rdsk/c2t2d0s1
600144f0a3770e00000000000a01d100  117741387776
/dev/md/rdsk/d100
600144f0a3770e00000000000a01d101  117741387776
/dev/md/rdsk/d101
600144f0a3770e00000000000a01d102  117741387776
/dev/md/rdsk/d102
600144f0a3770e00000000000a01d103  117741387776
/dev/md/rdsk/d103
600144f0a3770e00000000000a01d104  117741387776
/dev/md/rdsk/d104
600144f0a3770e00000000000a01d105  117741387776
/dev/md/rdsk/d105
600144f0a3770e00000000000a01d106  117741387776
/dev/md/rdsk/d106
600144f0a3770e00000000000a01d107  117741387776
/dev/md/rdsk/d107
600144f0a3770e00000000000a01d108  117741387776
/dev/md/rdsk/d108
600144f0a3770e00000000000a01d109  117741387776
/dev/md/rdsk/d109
600144f0a3770e00000000000a01d110  117741387776
/dev/md/rdsk/d110
```

stmfadm output – REDO heads

COMSTAR UIDs that are exported

```
LU Name: 600144F0A3770E00000000000A01C210
LU Name: 600144F0A3770E00000000000A01C211
LU Name: 600144F0A3770E00000000000A01C220
LU Name: 600144F0A3770E00000000000A01C221
LU Name: 600144F0A3770E00000000000A01D100
LU Name: 600144F0A3770E00000000000A01D101
LU Name: 600144F0A3770E00000000000A01D102
LU Name: 600144F0A3770E00000000000A01D103
LU Name: 600144F0A3770E00000000000A01D104
LU Name: 600144F0A3770E00000000000A01D105
LU Name: 600144F0A3770E00000000000A01D106
LU Name: 600144F0A3770E00000000000A01D107
LU Name: 600144F0A3770E00000000000A01D108
LU Name: 600144F0A3770E00000000000A01D109
LU Name: 600144F0A3770E00000000000A01D110
```

/etc/system – REDO heads

```
*ident	"%Z%%M%		%I%	%E% SMI" /* SVR4 1.5 */
*
* CDDL HEADER START
*
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* Common Development and Distribution License, Version 1.0 only
* (the "License").  You may not use this file except in compliance
* with the License.
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* or http://www.opensolaris.org/os/licensing.
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* If applicable, add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your own identifying
* information: Portions Copyright [yyyy] [name of copyright owner]
*
* CDDL HEADER END
*
*
* SYSTEM SPECIFICATION FILE
*


* moddir:
*
*	Set the search path for modules.  This has a format similar to the
*	csh path variable. If the module isn't found in the first directory
*	it tries the second and so on. The default is /kernel /usr/kernel
*
*	Example:
*		moddir: /kernel /usr/kernel /other/modules



* root device and root filesystem configuration:
*
*	The following may be used to override the defaults provided by
*	the boot program:
*
*	rootfs:			Set the filesystem type of the root.
*
*	rootdev:	Set the root device.  This should be a fully
*			expanded physical pathname.  The default
is the
*			physical pathname of the device where the
boot
*			program resides.  The physical pathname is
*			highly platform and configuration
dependent.
*
*	Example:
*		rootfs:ufs
*		rootdev:/sbus@1,f8000000/esp@0,800000/sd@3,0:a
*
*	(Swap device configuration should be specified in /etc/vfstab.)



* exclude:
*
*	Modules appearing in the moddir path which are NOT to be
loaded,
*	even if referenced. Note that `exclude' accepts either a module
name,
*	or a filename which includes the directory.
*
*	Examples:
*		exclude: win
*		exclude: sys/shmsys



* forceload:
*
*	Cause these modules to be loaded at boot time, (just before
mounting
*	the root filesystem) rather than at first reference. Note that
*	forceload expects a filename which includes the directory. Also
*	note that loading a module does not necessarily imply that it will
*	be installed.
*
*	Example:
```

```
*                       forceload: drv/foo



* set:
*
*           Set an integer variable in the kernel or a module to a new value.
*           This facility should be used with caution.  See system(4).
*
*           Examples:
*
*           To set variables in 'unix':
*
*                       set nautopush=32
*                       set maxusers=40
*
*           To set a variable named 'debug' in the module named 'test_module'
*
*                       set test_module:debug = 0x13

set autoup=300
# Help with restore speed

set maxphys=1048576
set md_mirror:md_resync_bufsz = 2048
set md:md_maxphys=131072
```

mpt.conf – REDO heads

```
#
# Copyright 2008 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#

#
# The mpt driver, as a pHCI driver, must specify the vHCI class it
# belongs to(scsi_vhci).
#
ddi-vhci-class="scsi_vhci";
#
# I/O multipathing feature (MPxIO) can be enabled or disabled using
# mpxio-disable property. Setting mpxio-disable="no" will activate
# I/O multipathing; setting mpxio-disable="yes" disables the feature.
#
# Global mpxio-disable property:
#
# To globally enable MPxIO on all mpt controllers set:
# mpxio-disable="no";
#
# To globally disable MPxIO on all mpt controllers set:
# mpxio-disable="yes";
#
# You can also enable or disable MPxIO on a per HBA basis.
# Per HBA settings override the global setting for the specified HBAs.
# To disable MPxIO on a controller whose parent is /pci@7c0/pci@0/pci@9
# and the unit-address is "0" set:
# name="mpt" parent="/pci@7c0/pci@0/pci@9" unit-address="0" mpxio-disable="yes";
#
mpxio-disable="yes";

#
# SATA mpxio supported
#
# To disable SATA mpxio, set
# disable-sata-mpxio="yes";
# When mpxio-disable="yes" is set, the disable-sata-mpxio property
# takes no effect
#
disable-sata-mpxio="no";
```

/etc/project – REDO heads

```
system:0::::
user.root:1::::
noproject:2::::
default:3::::
group.staff:10::::
```

/etc/user_attr – DATA heads

```
#
# Copyright 2009 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
# CDDL HEADER START
#
# The contents of this file are subject to the terms of the
# Common Development and Distribution License (the "License").
# You may not use this file except in compliance with the License.
#
# You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
# or http://www.opensolaris.org/os/licensing.
# See the License for the specific language governing permissions
# and limitations under the License.
#
# When distributing Covered Code, include this CDDL HEADER in each
# file and include the License file at usr/src/OPENSOLARIS.LICENSE.
# If applicable, add the following below this CDDL HEADER, with the
# fields enclosed by brackets "[]" replaced with your own identifying
# information: Portions Copyright [yyyy] [name of copyright owner]
#
# CDDL HEADER END
#
# /etc/user_attr
#
# user attributes. see user_attr(4)
#
#

dbbench::::type=normal;profiles=Primary Administrator;roles=root
dbd::::type=normal;profiles=Primary Administrator;roles=root
root::::type=normal;auths=solaris.*,solaris.grant;profiles=All;lock_after_retries=no;min_label=admin_low;clearance=admin_high
sas::::type=normal;profiles=Primary Administrator;roles=root
sasadm::::type=normal;profiles=Primary Administrator;roles=root
storage::::type=normal;profiles=Primary Administrator;roles=root
tpc::::type=normal;profiles=Primary Administrator
```

Client Configuration

format output – clients

```
Searching for disks...done


AVAILABLE DISK SELECTIONS:
       0. c0t0d0 <DEFAULT cyl 17747 alt 2 hd 255 sec 63>
          /pci@0,0/pci8086,340a@3/pci1000,9263@0/sd@0,0
       1. c0t1d0 <DEFAULT cyl 17747 alt 2 hd 255 sec 63>
          /pci@0,0/pci8086,340a@3/pci1000,9263@0/sd@1,0
Specify disk (enter its number):
```

prtdiag – clients

```
System Configuration: SUN MICROSYSTEMS SUN FIRE X4170 M2 SERVER
BIOS Configuration: American Megatrends Inc. 08010405 04/08/2010
BMC Configuration: IPMI 1.5 (KCS: Keyboard Controller Style)

==== Processor Sockets ====================================

Version                          Location Tag
-------------------------------- --------------------------
Intel(R) Xeon(R) CPU           X5670  @ 2.93GHz CPU 0
Intel(R) Xeon(R) CPU           X5670  @ 2.93GHz CPU 1

==== Memory Device Sockets ================================

Type    Status Set Device Locator      Bank Locator
------- ------ --- ------------------- --------------------
Unknown in use 0   D2                  BANK2
Unknown in use 0   D1                  BANK1
Unknown empty  0   D0                  BANK0
Unknown in use 0   D5                  BANK5
Unknown in use 0   D4                  BANK4
Unknown empty  0   D3                  BANK3
Unknown in use 0   D8                  BANK8
Unknown in use 0   D7                  BANK7
Unknown empty  0   D6                  BANK6
Unknown in use 0   D2                  BANK2
Unknown in use 0   D1                  BANK1
Unknown empty  0   D0                  BANK0
Unknown in use 0   D5                  BANK5
Unknown in use 0   D4                  BANK4
Unknown empty  0   D3                  BANK3
Unknown in use 0   D8                  BANK8
Unknown in use 0   D7                  BANK7
Unknown empty  0   D6                  BANK6
FLASH   in use 0

==== On-Board Devices =====================================
 Intel 82576 Ethernet Controller.
 Intel 82576 Ethernet Controller.
 Intel 82576 Ethernet Controller.
 Intel 82576 Ethernet Controller.

==== Upgradeable Slots ====================================
```

```
ID  Status    Type            Description
--- --------- ---------------- ----------------------------
0   in use    PCI Express      PCIE0
1   in use    PCI Express      PCIE1
2   available PCI Express      PCIE2
```

prtconf – clients

```
System Configuration:  Sun Microsystems  i86pc
Memory size: 49144 Megabytes
System Peripherals (Software Nodes):

i86pc
    scsi_vhci, instance #0
    isa, instance #0
        motherboard (driver not attached)
        asy, instance #0
        motherboard (driver not attached)
    pci, instance #0
        pci108e,484c (driver not attached)
        pci8086,3408, instance #0
            pci108e,484c, instance #0
            pci108e,484c, instance #1
        pci8086,3409, instance #1
            pci108e,484c, instance #2
            pci108e,484c, instance #3
        pci8086,340a, instance #2
            pci1000,9263, instance #0
                sd, instance #0
                sd, instance #1
        pci8086,340e (driver not attached)
        pci8086,3410 (driver not attached)
        pci8086,342d (driver not attached)
        pci8086,342e (driver not attached)
        pci8086,3422 (driver not attached)
        pci8086,3423, instance #0
        pci8086,3438 (driver not attached)
        pci108e,484c (driver not attached)
        pci108e,484c (driver not attached)
        pci108e,484c (driver not attached)
        pci108e,484c (driver not attached)
        pci108e,484c (driver not attached)
        pci108e,484c (driver not attached)
        pci108e,484c (driver not attached)
        pci108e,484c (driver not attached)
        pci108e,484c, instance #0
        pci108e,484c, instance #1
        pci108e,484c, instance #2
            device, instance #0
                keyboard, instance #0
                mouse, instance #1
        pci108e,484c, instance #0
            hub, instance #0
        pci108e,484c, instance #3
        pci108e,484c, instance #4
        pci108e,484c, instance #5
        pci108e,484c, instance #1
            hub, instance #1
        pci8086,244e, instance #0
            display, instance #0
        pci108e,484c (driver not attached)
        pci108e,484c, instance #0
        pci108e,484c (driver not attached)
    ioapics (driver not attached)
        ioapic, instance #0 (driver not attached)
    iscsi, instance #0
    pseudo, instance #0
    agpgart, instance #0 (driver not attached)
    options, instance #0
    objmgr, instance #0
    xsvc, instance #0
    used-resources (driver not attached)
    cpus, instance #0
        cpu, instance #0
        cpu, instance #1
        cpu, instance #2
        cpu, instance #3
        cpu, instance #4
        cpu, instance #5
        cpu, instance #6
        cpu, instance #7
        cpu, instance #8
        cpu, instance #9
        cpu, instance #10
        cpu, instance #11
        cpu, instance #12
        cpu, instance #13
        cpu, instance #14
        cpu, instance #15
        cpu, instance #16
        cpu, instance #17
        cpu, instance #18
        cpu, instance #19
        cpu, instance #20
        cpu, instance #21
        cpu, instance #22
        cpu, instance #23
```

/etc/release – clients

```
                   Oracle Solaris 10 9/10 s10x_u9wos_09 X86
     Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
                           Assembled 17 May 2010
           Early Access Build for Evaluation and Test Purposes Only.
              NOT SUPPORTED FOR PRODUCTION USE.  Not patchable.
```

/etc/vfstab – clients

```
#device             device              mount               FS
         fsck                 mount      mount
#to mount to fsck                        point                  type      pass
         at boot              options
#
fd       -         /dev/fd    fd         -          no        -
/proc    -         /proc      proc       -          no        -
/dev/dsk/c0t0d0s1  -          -          swap       -         no
         -
/dev/dsk/c0t0d0s0  /dev/rdsk/c0t0d0s0    /          ufs       1
         no        -
/dev/dsk/c0t0d0s4  /dev/rdsk/c0t0d0s4    /export    ufs       2
         yes       -
/devices -         /devices   devfs      -          no        -
sharefs  -         /etc/dfs/sharetab     sharefs    -         no
         -
ctfs     -         /system/contract      ctfs       -         no
         -
objfs    -         /system/object        objfs      -         no
         -
swap     -         /tmp       tmpfs      -          yes       -
```

/etc/hosts – clients

```
#
# Internet host table
#
::1           localhost
127.0.0.1   localhost
10.196.101.1         client1     loghost
10.196.232.10        minister196
10.196.232.30        onager196
#
# NIS servers for reference
10.1.140.1 minister-140
10.1.141.1 minister minister-141
10.1.142.1 minister-142
10.1.140.32          ritus-140
10.1.141.32          ritus ritus-141
10.1.142.32          ritus-142
10.1.140.2 imam-140
10.1.141.2 imam imam-141
10.1.142.2 imam-142
# endit

### everything after this is managed from CENTRAL FILE don't make
changes
### below here without expecting them to get blown away by heartless
### and uncaring admin at the next update!!  ;-)

###############################################################
##################
#
# Begin ReCap DB host table addendum!!  The MASTER lives in:
#
# /export/ptmp/recap/ewt/recap_host_addendum.txt
#
# This file WILL have hosts that have EVERYTHING listed in it - all drivers
# too, even though THIS node will only be able to see it's associated "three"..
# SOOO much easier to simply edit one file, and use
/opt/SUNWcluster/bin/cssh to
# edit every node concurrently to implement changes..   ewt 7.17.2010
#

###############################################################
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#
# First, despite having naming services, we should INSURE that all nodes
# have local knowledge of all OTHER nodes, "Just in case"..  Yes, that's
```

```
# paranoia you hear in my voice...   ewt 7.19.2010
# All nodes SHOULD be able to see all other nodes!!
# Be careful about updating these in NIS without updating these
# local records!!  ;-)  (doing my best to keep things confusing!)
#
10.196.100.1    db1          # ReCap: Database node number 1
10.196.100.2    db2          # ReCap: Database node number 2
10.196.100.3    db3          # ReCap: Database node number 3
10.196.100.4    db4          # ReCap: Database node number 4
10.196.100.5    db5          # ReCap: Database node number 5
10.196.100.6    db6          # ReCap: Database node number 6
10.196.100.7    db7          # ReCap: Database node number 7
10.196.100.8    db8          # ReCap: Database node number 8
10.196.100.9    db9          # ReCap: Database node number 9
10.196.100.10  db10          # ReCap: Database node number 10
10.196.100.11  db11          # ReCap: Database node number 11
10.196.100.12  db12          # ReCap: Database node number 12
10.196.100.13  db13          # ReCap: Database node number 13
10.196.100.14  db14          # ReCap: Database node number 14
10.196.100.15  db15          # ReCap: Database node number 15
10.196.100.16  db16          # ReCap: Database node number 16
10.196.100.17  db17          # ReCap: Database node number 17
10.196.100.18  db18          # ReCap: Database node number 18
10.196.100.19  db19          # ReCap: Database node number 19
10.196.100.20  db20          # ReCap: Database node number 20
10.196.100.21  db21          # ReCap: Database node number 21
10.196.100.22  db22          # ReCap: Database node number 22
10.196.100.23  db23          # ReCap: Database node number 23
10.196.100.24  db24          # ReCap: Database node number 24
10.196.100.25  db25          # ReCap: Database node number 25
10.196.100.26  db26          # ReCap: Database node number 26
10.196.100.27  db27          # ReCap: Database node number 27
10.196.100.28  db28          # ReCap: Database node number 28
10.196.100.29  db29          # ReCap: Database node number 29
10.196.100.30  db30          # ReCap: Database node number 30
#
# endit:db node primaries..


##################################################################
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#
# For the SAME reasons as above, all nodes should know about all
# other nodes "VIP", or Virtual IP..    ewt  7.19.2010
# Be careful about updating these in NIS without updating these
# local records!!  ;-)  (doing my best to keep things confusing!)
#
10.196.100.101   db1-vip       # ReCap: Database node number 1 VIP
10.196.100.102   db2-vip       # ReCap: Database node number 2 VIP
10.196.100.103   db3-vip       # ReCap: Database node number 3 VIP
10.196.100.104   db4-vip       # ReCap: Database node number 4 VIP
10.196.100.105   db5-vip       # ReCap: Database node number 5 VIP
10.196.100.106   db6-vip       # ReCap: Database node number 6 VIP
10.196.100.107   db7-vip       # ReCap: Database node number 7 VIP
10.196.100.108   db8-vip       # ReCap: Database node number 8 VIP
10.196.100.109   db9-vip       # ReCap: Database node number 9 VIP
10.196.100.110   db10-vip       # ReCap: Database node number 10 VIP
10.196.100.111   db11-vip       # ReCap: Database node number 11 VIP
10.196.100.112   db12-vip       # ReCap: Database node number 12 VIP
10.196.100.113   db13-vip       # ReCap: Database node number 13 VIP
10.196.100.114   db14-vip       # ReCap: Database node number 14 VIP
10.196.100.115   db15-vip       # ReCap: Database node number 15 VIP
10.196.100.116   db16-vip       # ReCap: Database node number 16 VIP
10.196.100.117   db17-vip       # ReCap: Database node number 17 VIP
10.196.100.118   db18-vip       # ReCap: Database node number 18 VIP
10.196.100.119   db19-vip       # ReCap: Database node number 19 VIP
10.196.100.120   db20-vip       # ReCap: Database node number 20 VIP
10.196.100.121   db21-vip       # ReCap: Database node number 21 VIP
10.196.100.122   db22-vip       # ReCap: Database node number 22 VIP
10.196.100.123   db23-vip       # ReCap: Database node number 23 VIP
10.196.100.124   db24-vip       # ReCap: Database node number 24 VIP
10.196.100.125   db25-vip       # ReCap: Database node number 25 VIP
10.196.100.126   db26-vip       # ReCap: Database node number 26 VIP
10.196.100.127   db27-vip       # ReCap: Database node number 27 VIP
10.196.100.128   db28-vip       # ReCap: Database node number 28 VIP
10.196.100.129   db29-vip       # ReCap: Database node number 29 VIP
10.196.100.130   db30-vip       # ReCap: Database node number 30 VIP
#
# SCAN address of all of the above Virtual IP's
#
10.196.100.200         scna-27node
10.196.100.201         scan-4node
10.196.100.202  scan-4node-2
10.196.100.203  scan-4node-3
#
# endit: db scan virtual IP's


##################################################################
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#
# RAC heart beat (igb1) - this is common to all DB nodes and all
# SHOULD be able to see all!!
#
192.168.1.1             db1hb1     # db1 RAC rack HEARTBEAT network
(igb1)
192.168.1.2             db2hb1     # db2 RAC rack HEARTBEAT network
(igb1)
192.168.1.3             db3hb1     # db3 RAC rack HEARTBEAT network
(igb1)
192.168.1.4             db4hb1     # db4 RAC rack HEARTBEAT network
(igb1)
192.168.1.5             db5hb1     # db5 RAC rack HEARTBEAT network
(igb1)
192.168.1.6             db6hb1     # db6 RAC rack HEARTBEAT network
(igb1)
192.168.1.7             db7hb1     # db7 RAC rack HEARTBEAT network
(igb1)
192.168.1.8             db8hb1     # db8 RAC rack HEARTBEAT network
(igb1)
192.168.1.9             db9hb1     # db9 RAC rack HEARTBEAT network
(igb1)
192.168.1.10            db10hb1    # db10 RAC rack HEARTBEAT network
(igb1)
192.168.1.11            db11hb1    # db11 RAC rack HEARTBEAT network
(igb1)
192.168.1.12            db12hb1    # db12 RAC rack HEARTBEAT network
(igb1)
192.168.1.13            db13hb1    # db13 RAC rack HEARTBEAT network
(igb1)
192.168.1.14            db14hb1    # db14 RAC rack HEARTBEAT network
(igb1)
192.168.1.15            db15hb1    # db15 RAC rack HEARTBEAT network
(igb1)
192.168.1.16            db16hb1    # db16 RAC rack HEARTBEAT network
(igb1)
192.168.1.17            db17hb1    # db17 RAC rack HEARTBEAT network
(igb1)
192.168.1.18            db18hb1    # db18 RAC rack HEARTBEAT network
(igb1)
192.168.1.19            db19hb1    # db19 RAC rack HEARTBEAT network
(igb1)
192.168.1.20            db20hb1    # db20 RAC rack HEARTBEAT network
(igb1)
192.168.1.21            db21hb1    # db21 RAC rack HEARTBEAT network
(igb1)
192.168.1.22            db22hb1    # db22 RAC rack HEARTBEAT network
(igb1)
192.168.1.23            db23hb1    # db23 RAC rack HEARTBEAT network
(igb1)
192.168.1.24            db24hb1    # db24 RAC rack HEARTBEAT network
(igb1)
192.168.1.25            db25hb1    # db25 RAC rack HEARTBEAT network
(igb1)
192.168.1.26            db26hb1    # db26 RAC rack HEARTBEAT network
(igb1)
192.168.1.27            db27hb1    # db27 RAC rack HEARTBEAT network
(igb1)
192.168.1.28            db28hb1    # db28 RAC rack HEARTBEAT network
(igb1)
192.168.1.29            db29hb1    # db29 RAC rack HEARTBEAT network
(igb1)
192.168.1.30            db30hb1    # db30 RAC rack HEARTBEAT network
(igb1)
#
# endit: RAC heartbeat interconnect

##################################################################
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#
# RAC data traffic (10GbE) - this is common to all DB nodes and all
# SHOULD be able to see all!!
#

192.168.100.1   db1d1        # db1 RAC rack DATA network (ixgbe0)
192.168.100.2   db2d1        # db2 RAC rack DATA network (ixgbe0)
192.168.100.3   db3d1        # db3 RAC rack DATA network (ixgbe0)
192.168.100.4   db4d1        # db4 RAC rack DATA network (ixgbe0)
192.168.100.5   db5d1        # db5 RAC rack DATA network (ixgbe0)
192.168.100.6   db6d1        # db6 RAC rack DATA network (ixgbe0)
192.168.100.7   db7d1        # db7 RAC rack DATA network (ixgbe0)
192.168.100.8   db8d1        # db8 RAC rack DATA network (ixgbe0)
192.168.100.9   db9d1        # db9 RAC rack DATA network (ixgbe0)
192.168.100.10  db10d1        # db10 RAC rack DATA network (ixgbe0)
```

```
192.168.100.11  db11d1         # db11 RAC rack DATA network (ixgbe0)
192.168.100.12  db12d1         # db12 RAC rack DATA network (ixgbe0)
192.168.100.13  db13d1         # db13 RAC rack DATA network (ixgbe0)
192.168.100.14  db14d1         # db14 RAC rack DATA network (ixgbe0)
192.168.100.15  db15d1         # db15 RAC rack DATA network (ixgbe0)
192.168.100.16  db16d1         # db16 RAC rack DATA network (ixgbe0)
192.168.100.17  db17d1         # db17 RAC rack DATA network (ixgbe0)
192.168.100.18  db18d1         # db18 RAC rack DATA network (ixgbe0)
192.168.100.19  db19d1         # db19 RAC rack DATA network (ixgbe0)
192.168.100.20  db20d1         # db20 RAC rack DATA network (ixgbe0)
192.168.100.21  db21d1         # db21 RAC rack DATA network (ixgbe0)
192.168.100.22  db22d1         # db22 RAC rack DATA network (ixgbe0)
192.168.100.23  db23d1         # db23 RAC rack DATA network (ixgbe0)
192.168.100.24  db24d1         # db24 RAC rack DATA network (ixgbe0)
192.168.100.25  db25d1         # db25 RAC rack DATA network (ixgbe0)
192.168.100.26  db26d1         # db26 RAC rack DATA network (ixgbe0)
192.168.100.27  db27d1         # db27 RAC rack DATA network (ixgbe0)
192.168.100.28  db28d1         # db28 RAC rack DATA network (ixgbe0)
192.168.100.29  db29d1         # db29 RAC rack DATA network (ixgbe0)
192.168.100.30  db30d1         # db30 RAC rack DATA network (ixgbe0)
#
# endit: RAC data interconnect

################################################################
##################
#
# Private Point to Point (p2p) connections between ClientX nodes and
# db[1-27] nodes.  Because this are POINT TO POINT, only the nodes in
# smaller subsets should be able to ping to the DB node listed..
#

# db1 client connections:
192.168.111.1                  db1client1 # p2p, DB1 and Client1,
(db1:nxge0)
192.168.111.2                  client1db1 # p2p, Client1 and DB1,
(client1:igb1)
192.168.112.1                  db1client2 # p2p, DB1 and Client2,
(db1:nxge1)
192.168.112.2                  client2db1 # p2p, Client2 and DB1,
(client2:igb1)
192.168.113.1                  db1client3 # p2p, DB1 and Client3,
(db1:nxge2)
192.168.113.2                  client3db1 # p2p, Client3 and DB1,
(client3:igb1)
#
# db2 client connections:
192.168.111.1                  db2client4 # p2p, DB2 and Client4,
(db2:nxge0)
192.168.111.2                  client4db2 # p2p, Client4 and DB2,
(client4:igb1)
192.168.112.1                  db2client5 # p2p, DB2 and Client5,
(db2:nxge1)
192.168.112.2                  client5db2 # p2p, Client5 and DB2,
(client5:igb1)
192.168.113.1                  db2client6 # p2p, DB2 and Client6,
(db2:nxge2)
192.168.113.2                  client6db2 # p2p, Client6 and DB2,
(client6:igb1)
#
# db3 client connections:
192.168.111.1                  db3client7 # p2p, DB3 and Client7,
(db3:nxge0)
192.168.111.2                  client7db3 # p2p, Client7 and DB3,
(client7:igb1)
192.168.112.1                  db3client8 # p2p, DB3 and Client8,
(db3:nxge1)
192.168.112.2                  client8db3 # p2p, Client8 and DB3,
(client8:igb1)
192.168.113.1                  db3client9 # p2p, DB3 and Client9,
(db3:nxge2)
192.168.113.2                  client9db3 # p2p, Client9 and DB3,
(client9:igb1)
#
# db4 client connections:
192.168.111.1                  db4client10          # p2p, DB4 and
Client10, (db4:nxge0)
192.168.111.2                  client10db4          # p2p, Client10 and
DB4, (client10:igb1)
192.168.112.1                  db4client11          # p2p, DB4 and
Client11, (db4:nxge1)
192.168.112.2                  client11db4          # p2p, Client11 and
DB4, (client11:igb1)
192.168.113.1                  db4client12          # p2p, DB4 and
Client12, (db4:nxge2)
192.168.113.2                  client12db4          # p2p, Client12 and
DB4, (client12:igb1)
#
# db5 client connections:
192.168.111.1                  db5client13          # p2p, DB5 and
Client13, (db5:nxge0)
192.168.111.2                  client13db5          # p2p, Client13 and
DB5, (client13:igb1)
192.168.112.1                  db5client14          # p2p, DB5 and
Client14, (db5:nxge1)
192.168.112.2                  client14db5          # p2p, Client14 and
DB5, (client14:igb1)
192.168.113.1                  db5client15          # p2p, DB5 and
Client15, (db5:nxge2)
192.168.113.2                  client15db5          # p2p, Client15 and
DB5, (client15:igb1)
#
# db6 client connections:
192.168.111.1                  db6client16          # p2p, DB6 and
Client16, (db6:nxge0)
192.168.111.2                  client16db6          # p2p, Client16 and
DB6, (client16:igb1)
192.168.112.1                  db6client17          # p2p, DB6 and
Client17, (db6:nxge1)
192.168.112.2                  client17db6          # p2p, Client17 and
DB6, (client17:igb1)
192.168.113.1                  db6client18          # p2p, DB6 and
Client18, (db6:nxge2)
192.168.113.2                  client18db6          # p2p, Client18 and
DB6, (client18:igb1)
#
# db7 client connections:
192.168.111.1                  db7client19          # p2p, DB7 and
Client19, (db7:nxge0)
192.168.111.2                  client19db7          # p2p, Client19 and
DB7, (client19:igb1)
192.168.112.1                  db7client20          # p2p, DB7 and
Client20, (db7:nxge1)
192.168.112.2                  client20db7          # p2p, Client20 and
DB7, (client20:igb1)
192.168.113.1                  db7client21          # p2p, DB7 and
Client21, (db7:nxge2)
192.168.113.2                  client21db7          # p2p, Client21 and
DB7, (client21:igb1)
#
# db8 client connections:
192.168.111.1                  db8client22          # p2p, DB8 and
Client22, (db8:nxge0)
192.168.111.2                  client22db8          # p2p, Client22 and
DB8, (client22:igb1)
192.168.112.1                  db8client23          # p2p, DB8 and
Client23, (db8:nxge1)
192.168.112.2                  client23db8          # p2p, Client23 and
DB8, (client23:igb1)
192.168.113.1                  db8client24          # p2p, DB8 and
Client24, (db8:nxge2)
192.168.113.2                  client24db8          # p2p, Client24 and
DB8, (client24:igb1)
#
# db9 client connections:
192.168.111.1                  db9client25          # p2p, DB9 and
Client25, (db9:nxge0)
192.168.111.2                  client25db9          # p2p, Client25 and
DB9, (client25:igb1)
192.168.112.1                  db9client26          # p2p, DB9 and
Client26, (db9:nxge1)
192.168.112.2                  client26db9          # p2p, Client26 and
DB9, (client26:igb1)
192.168.113.1                  db9client27          # p2p, DB9 and
Client27, (db9:nxge2)
192.168.113.2                  client27db9          # p2p, Client27 and
DB9, (client27:igb1)
#
# db10 client connections:
192.168.111.1                  db10client28         # p2p, DB10 and
Client28, (db10:nxge0)
192.168.111.2                  client28db10         # p2p, Client28 and
DB10, (client28:igb1)
192.168.112.1                  db10client29         # p2p, DB10 and
Client29, (db10:nxge1)
192.168.112.2                  client29db10         # p2p, Client29 and
DB10, (client29:igb1)
192.168.113.1                  db10client30         # p2p, DB10 and
Client30, (db10:nxge2)
192.168.113.2                  client30db10         # p2p, Client30 and
DB10, (client30:igb1)
#
# db11 client connections:
192.168.111.1                  db11client31         # p2p, DB11 and
Client31, (db11:nxge0)
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```
192.168.111.2           client31db11        # p2p, Client31 and
DB11, (client31:igb1)
192.168.112.1           db11client32        # p2p, DB11 and
Client32, (db11:nxge1)
192.168.112.2           client32db11        # p2p, Client32 and
DB11, (client32:igb1)
192.168.113.1           db11client33        # p2p, DB11 and
Client33, (db11:nxge2)
192.168.113.2           client33db11        # p2p, Client33 and
DB11, (client33:igb1)
#
# db12 client connections:
192.168.111.1           db12client34        # p2p, DB12 and
Client34, (db12:nxge0)
192.168.111.2           client34db12        # p2p, Client34 and
DB12, (client34:igb1)
192.168.112.1           db12client35        # p2p, DB12 and
Client35, (db12:nxge1)
192.168.112.2           client35db12        # p2p, Client35 and
DB12, (client35:igb1)
192.168.113.1           db12client36        # p2p, DB12 and
Client36, (db12:nxge2)
192.168.113.2           client36db12        # p2p, Client36 and
DB12, (client36:igb1)
#
# db13 client connections:
192.168.111.1           db13client37        # p2p, DB13 and
Client37, (db13:nxge0)
192.168.111.2           client37db13        # p2p, Client37 and
DB13, (client37:igb1)
192.168.112.1           db13client38        # p2p, DB13 and
Client38, (db13:nxge1)
192.168.112.2           client38db13        # p2p, Client38 and
DB13, (client38:igb1)
192.168.113.1           db13client39        # p2p, DB13 and
Client39, (db13:nxge2)
192.168.113.2           client39db13        # p2p, Client39 and
DB13, (client39:igb1)
#
# db14 client connections:
192.168.111.1           db14client40        # p2p, DB14 and
Client40, (db14:nxge0)
192.168.111.2           client40db14        # p2p, Client40 and
DB14, (client40:igb1)
192.168.112.1           db14client41        # p2p, DB14 and
Client41, (db14:nxge1)
192.168.112.2           client41db14        # p2p, Client41 and
DB14, (client41:igb1)
192.168.113.1           db14client42        # p2p, DB14 and
Client42, (db14:nxge2)
192.168.113.2           client42db14        # p2p, Client42 and
DB14, (client42:igb1)
#
# db15 client connections:
192.168.111.1           db15client43        # p2p, DB15 and
Client43, (db15:nxge0)
192.168.111.2           client43db15        # p2p, Client43 and
DB15, (client43:igb1)
192.168.112.1           db15client44        # p2p, DB15 and
Client44, (db15:nxge1)
192.168.112.2           client44db15        # p2p, Client44 and
DB15, (client44:igb1)
192.168.113.1           db15client45        # p2p, DB15 and
Client45, (db15:nxge2)
192.168.113.2           client45db15        # p2p, Client45 and
DB15, (client45:igb1)
#
# db16 client connections:
192.168.111.1           db16client46        # p2p, DB16 and
Client46, (db16:nxge0)
192.168.111.2           client46db16        # p2p, Client46 and
DB16, (client46:igb1)
192.168.112.1           db16client47        # p2p, DB16 and
Client47, (db16:nxge1)
192.168.112.2           client47db16        # p2p, Client47 and
DB16, (client47:igb1)
192.168.113.1           db16client48        # p2p, DB16 and
Client48, (db16:nxge2)
192.168.113.2           client48db16        # p2p, Client48 and
DB16, (client48:igb1)
#
# db17 client connections:
192.168.111.1           db17client49        # p2p, DB17 and
Client49, (db17:nxge0)
192.168.111.2           client49db17        # p2p, Client49 and
DB17, (client49:igb1)
192.168.112.1           db17client50        # p2p, DB17 and
Client50, (db17:nxge1)
192.168.112.2           client50db17        # p2p, Client50 and
DB17, (client50:igb1)
192.168.113.1           db17client51        # p2p, DB17 and
Client51, (db17:nxge2)
192.168.113.2           client51db17        # p2p, Client51 and
DB17, (client51:igb1)
#
# db18 client connections:
192.168.111.1           db18client52        # p2p, DB18 and
Client52, (db18:nxge0)
192.168.111.2           client52db18        # p2p, Client52 and
DB18, (client52:igb1)
192.168.112.1           db18client53        # p2p, DB18 and
Client53, (db18:nxge1)
192.168.112.2           client53db18        # p2p, Client53 and
DB18, (client53:igb1)
192.168.113.1           db18client54        # p2p, DB18 and
Client54, (db18:nxge2)
192.168.113.2           client54db18        # p2p, Client54 and
DB18, (client54:igb1)
#
# db19 client connections:
192.168.111.1           db19client55        # p2p, DB19 and
Client55, (db19:nxge0)
192.168.111.2           client55db19        # p2p, Client55 and
DB19, (client55:igb1)
192.168.112.1           db19client56        # p2p, DB19 and
Client56, (db19:nxge1)
192.168.112.2           client56db19        # p2p, Client56 and
DB19, (client56:igb1)
192.168.113.1           db19client57        # p2p, DB19 and
Client57, (db19:nxge2)
192.168.113.2           client57db19        # p2p, Client57 and
DB19, (client57:igb1)
#
# db20 client connections:
192.168.111.1           db20client58        # p2p, DB20 and
Client58, (db20:nxge0)
192.168.111.2           client58db20        # p2p, Client58 and
DB20, (client58:igb1)
192.168.112.1           db20client59        # p2p, DB20 and
Client59, (db20:nxge1)
192.168.112.2           client59db20        # p2p, Client59 and
DB20, (client59:igb1)
192.168.113.1           db20client60        # p2p, DB20 and
Client60, (db20:nxge2)
192.168.113.2           client60db20        # p2p, Client60 and
DB20, (client60:igb1)
#
# db21 client connections:
192.168.111.1           db21client61        # p2p, DB21 and
Client61, (db21:nxge0)
192.168.111.2           client61db21        # p2p, Client61 and
DB21, (client61:igb1)
192.168.112.1           db21client62        # p2p, DB21 and
Client62, (db21:nxge1)
192.168.112.2           client62db21        # p2p, Client62 and
DB21, (client62:igb1)
192.168.113.1           db21client63        # p2p, DB21 and
Client63, (db21:nxge2)
192.168.113.2           client63db21        # p2p, Client63 and
DB21, (client63:igb1)
#
# db22 client connections:
192.168.111.1           db22client64        # p2p, DB22 and
Client64, (db22:nxge0)
192.168.111.2           client64db22        # p2p, Client64 and
DB22, (client64:igb1)
192.168.112.1           db22client65        # p2p, DB22 and
Client65, (db22:nxge1)
192.168.112.2           client65db22        # p2p, Client65 and
DB22, (client65:igb1)
192.168.113.1           db22client66        # p2p, DB22 and
Client66, (db22:nxge2)
192.168.113.2           client66db22        # p2p, Client66 and
DB22, (client66:igb1)
#
# db23 client connections:
192.168.111.1           db23client67        # p2p, DB23 and
Client67, (db23:nxge0)
192.168.111.2           client67db23        # p2p, Client67 and
DB23, (client67:igb1)
192.168.112.1           db23client68        # p2p, DB23 and
Client68, (db23:nxge1)
192.168.112.2           client68db23        # p2p, Client68 and
DB23, (client68:igb1)
```

```
192.168.113.1                   db23client69            # p2p, DB23 and
Client69, (db23:nxge2)
192.168.113.2                   client69db23            # p2p, Client69 and
DB23, (client69:igb1)
#
# db24 client connections:
192.168.111.1                   db24client70            # p2p, DB24 and
Client70, (db24:nxge0)
192.168.111.2                   client70db24            # p2p, Client70 and
DB24, (client70:igb1)
192.168.112.1                   db24client71            # p2p, DB24 and
Client71, (db24:nxge1)
192.168.112.2                   client71db24            # p2p, Client71 and
DB24, (client71:igb1)
192.168.113.1                   db24client72            # p2p, DB24 and
Client72, (db24:nxge2)
192.168.113.2                   client72db24            # p2p, Client72 and
DB24, (client72:igb1)
#
# db25 client connections:
192.168.111.1                   db25client73            # p2p, DB25 and
Client73, (db25:nxge0)
192.168.111.2                   client73db25            # p2p, Client73 and
DB25, (client73:igb1)
192.168.112.1                   db25client74            # p2p, DB25 and
Client74, (db25:nxge1)
192.168.112.2                   client74db25            # p2p, Client74 and
DB25, (client74:igb1)
192.168.113.1                   db25client75            # p2p, DB25 and
Client75, (db25:nxge2)
192.168.113.2                   client75db25            # p2p, Client75 and
DB25, (client75:igb1)
#
# db26 client connections:
192.168.111.1                   db26client76            # p2p, DB26 and
Client76, (db26:nxge0)
192.168.111.2                   client76db26            # p2p, Client76 and
DB26, (client76:igb1)
192.168.112.1                   db26client77            # p2p, DB26 and
Client77, (db26:nxge1)
192.168.112.2                   client77db26            # p2p, Client77 and
DB26, (client77:igb1)
192.168.113.1                   db26client78            # p2p, DB26 and
Client78, (db26:nxge2)
192.168.113.2                   client78db26            # p2p, Client78 and
DB26, (client78:igb1)
#
# db27 client connections:
192.168.111.1                   db27client79            # p2p, DB27 and
Client79, (db27:nxge0)
192.168.111.2                   client79db27            # p2p, Client79 and
DB27, (client79:igb1)
192.168.112.1                   db27client80            # p2p, DB27 and
Client80, (db27:nxge1)
192.168.112.2                   client80db27            # p2p, Client80 and
DB27, (client80:igb1)
192.168.113.1                   db27client81            # p2p, DB27 and
Client81, (db27:nxge2)
192.168.113.2                   client81db27            # p2p, Client81 and
DB27, (client81:igb1)
#
# endit: db2client p2p's


#################################################################
##################
#
# Private Point to Point (p2p) connections between ClientX nodes and
# rteX nodes.  Because these are POINT TO POINT, and further, PRIVATE
to
# the three node Client/RTE tuples of three, this ONE section good for ALL!!
#

#The following is GENERIC FOR ALL CLIENT DRIVER TUPLES!
192.168.200.1       drvrte1             # p2p, client driver 1,
clientX:igb2
192.168.200.2       rte1drv             # p2p, client driver 1, rteX-
1:igb2
192.168.201.1       drvrte2             # p2p, client driver 2,
clientX:igb3
192.168.201.2       rte2drv             # p2p, client driver 2, rteX-
2:igb3
#
# endit: client2driver (or RTE) p2p's
192.168.111.1 recapdb
10.196.232.10   minister196
10.196.231.30   onager196
10.196.231.15   saegw1-196
10.196.231.16   saegw2-196
```

ifconfig output – clients

```
lo0:
flags=2001000849<UP,LOOPBACK,RUNNING,MULTICAST,IPv4,VIRTU
AL> mtu 8232 index 1
        inet 127.0.0.1 netmask ff000000
igb0: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4>
mtu 1500 index 2
        inet 10.196.101.1 netmask ffff0000 broadcast 10.196.255.255
igb1: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4>
mtu 1500 index 3
        inet 192.168.111.2 netmask ffffff00 broadcast 192.168.111.255
igb2: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4>
mtu 1500 index 4
        inet 192.168.200.1 netmask ffffff00 broadcast 192.168.200.255
igb3: flags=1000843<UP,BROADCAST,RUNNING,MULTICAST,IPv4>
mtu 1500 index 5
        inet 192.168.201.1 netmask ffffff00 broadcast 192.168.201.255
```

Tuxedo version – clients

```
INFO: Oracle Tuxedo, Version 11.1.1.2.0, 64-bit, Patch Level (none)
```

/etc/system – clients

```
*ident      "@(#)system         1.18        97/06/27 SMI" /* SVR4 1.5 */
*
* SYSTEM SPECIFICATION FILE
*

* moddir:
*
*       Set the search path for modules.  This has a format similar to the
*       csh path variable. If the module isn't found in the first directory
*       it tries the second and so on. The default is /kernel /usr/kernel
*
*       Example:
*               moddir: /kernel /usr/kernel /other/modules



* root device and root filesystem configuration:
*
*       The following may be used to override the defaults provided by
*       the boot program:
*
*       rootfs:                 Set the filesystem type of the root.
*
*       rootdev:    Set the root device.  This should be a fully
*                               expanded physical pathname.  The default
is the
*                               physical pathname of the device where the
boot
*                               program resides.  The physical pathname is
*                               highly platform and configuration
dependent.
*
*       Example:
*               rootfs:ufs
*               rootdev:/sbus@1,f8000000/esp@0,800000/sd@3,0:a
*
*       (Swap device configuration should be specified in /etc/vfstab.)



* exclude:
*
*       Modules appearing in the moddir path which are NOT to be
loaded,
*       even if referenced. Note that `exclude' accepts either a module
name,
*       or a filename which includes the directory.
*
*       Examples:
*               exclude: win
*               exclude: sys/shmsys



* forceload:
*
*       Cause these modules to be loaded at boot time, (just before
mounting
*       the root filesystem) rather than at first reference. Note that
*       forceload expects a filename which includes the directory. Also
*       note that loading a module does not necessarily imply that it will
*       be installed.
```

```
*
*           Example:
*                   forceload: drv/foo



* set:
*
*           Set an integer variable in the kernel or a module to a new value.
*           This facility should be used with caution.  See system(4).
*
*           Examples:
*
*           To set variables in 'unix':
*
*                   set nautopush=32
*                   set maxusers=40
*
*           To set a variable named 'debug' in the module named 'test_module'
*
*                   set test_module:debug = 0x13

*************************************************
*
* /etc/system ademdum added by SAE's Jumpstart
* at OS install time.
*

* set "Soft" limit on file descriptors that a single process can have open.
* installed at Guy's request...
set rlim_fd_cur=1024

*
* endit
*
* set a few lvm params we like
*
* faster resyncs!
set md_mirror:md_resync_bufsz = 2048
*
* less than 50% metadb quorum okay!
set md:mirrored_root_flag=1
*
* end lvm settings we like
*
*TPCC-Setup-Pallab-Do-not-play with it
set rlim_fd_max=2000000
set rlim_fd_cur=2000000
set sq_max_size=0
*set ddi_msix_alloc_limit=4
*set pcplusmp:apic_multi_msi_max=4
*set pcplusmp:apic_msix_max=4
*set pcplusmp:apic_intr_policy=1

*set ip:ip_squeue_bind=0
*set ip:ip_squeue_fanout=1
*set ip:ip_soft_rings_cnt=4
*set ip_squeue_soft_ring=1
*set ip:tcp_squeue_wput=1

set shmsys:shminfo_shmmax=0xffffffffff
set shmsys:shminfo_shmmin=1
set shmsys:shminfo_shmmni=800
set shmsys:shminfo_shmseg=800
*set shmsys:shminfo_shmmni=500
*set shmsys:shminfo_shmseg=600
*
set semsys:seminfo_semmni=24576
set semsys:seminfo_semmsl=1500
set semsys:seminfo_semmns=18432
set semsys:seminfo_semmnu=12000
set semsys:seminfo_semopm=500
set semsys:seminfo_semvmx=65536
*
set msgsys:msginfo_msgmni=5000
set msgsys:msginfo_msgmap=200000
set msgsys:msginfo_msgmnb=800000
set msgsys:msginfo_msgmax=32768
set msgsys:msginfo_msgtql=5000
```

/etc/project – clients

```
system:0::::
user.root:1::::
noproject:2::::
default:3::::
group.staff:10::::
group.dba:100:DBA Project::dba:process.max-sem-nsems=(priv,1024,deny);project.max-sem-ids=(priv,1024,deny);project.max-shm-memory=(priv,644245094400,deny);project.max-msg-ids=(priv,8192,deny)
```

/etc/user_attr – clients

```
#
# Copyright 2007 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
# /etc/user_attr
#
# execution attributes for profiles. see user_attr(4)
#
#ident      "@(#)user_attr      1.1       07/01/31 SMI"
#
#
adm::::profiles=Log Management
lp::::profiles=Printer Management
root::::auths=solaris.*,solaris.grant;profiles=Web Console Management,All;lock_after_retries=no;min_label=admin_low;clearance=admin_high
tpc::::type=normal;profiles=Primary Administrator
dbbench::::type=normal;profiles=Primary Administrator
oracle::::type=normal;profiles=Primary Administrator
```

tnsnames.ora – client1

```
tpcc =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.111.1 ) (Port = 1521))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
 )
tpcc_set1 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.111.1 ) (Port = 1521))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
 )
tpcc_set2 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.111.1 ) (Port = 1522))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
 )
tpcc_set3 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.111.1 ) (Port = 1523))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
 )
tpcc_set4 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.111.1 ) (Port = 1524))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
 )
```

tnsnames.ora – client2

```
tpcc =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.112.1 ) (Port = 1522))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
 )
tpcc_set1 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.112.1 ) (Port = 1521))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
 )
tpcc_set2 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.112.1 ) (Port = 1522))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
 )
tpcc_set3 =
(DESCRIPTION =
```

```
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.112.1 ) (Port = 1523))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
  )
tpcc_set4 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.112.1 ) (Port = 1524))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
  )
```

tnsnames.ora – client3

```
tpcc =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.113.1 ) (Port = 1523))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
  )
tpcc_set1 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.113.1 ) (Port = 1521))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
  )
tpcc_set2 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.113.1 ) (Port = 1522))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
  )
tpcc_set3 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.113.1 ) (Port = 1523))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
  )
tpcc_set4 =
(DESCRIPTION =
      (ADDRESS = (PROTOCOL = TCP) (Host = 192.168.113.1 ) (Port = 1524))
      (CONNECT_DATA = (SERVICE_NAME = RECAP)
   )
  )
```

ubbconfig - clients

```
*RESOURCES
IPCKEY          40001
MASTER          tpcc_cli
PERM            0666
MAXACCESSERS    4096
MAXSERVERS      4096
MAXSERVICES     4096
MAXBUFTYPE      8192
MAXBUFSTYPE     8192
NOTIFY          IGNORE
MODEL           SHM
LDBAL           Y
SCANUNIT        10
SANITYSCAN      10
BLOCKTIME       10
BBLQUERY        10
OPTIONS         NO_XA,NO_AA

*MACHINES
"client1"  LMID="tpcc_cli"
       TUXCONFIG="/export/home/dbbench/tuxedo/tuxconfig"
       ROOTDIR="/opt/tuxedo"
       APPDIR="/export/home/dbbench/tuxedo"
       ULOGPFX="/export/home/dbbench/tuxedo/logs/ULOGHOST"
       TUXDIR="/opt/tuxedo"
       SPINCOUNT=10000

*GROUPS
"DEL1"     LMID="tpcc_cli"    GRPNO=1 ENVFILE="env.two_task1"
"DEL2"     LMID="tpcc_cli"    GRPNO=2 ENVFILE="env.two_task2"
"DEL3"     LMID="tpcc_cli"    GRPNO=3 ENVFILE="env.two_task3"
"group1"   LMID="tpcc_cli"    GRPNO=4 ENVFILE="env.two_task1"
"group2"   LMID="tpcc_cli"    GRPNO=5 ENVFILE="env.two_task2"
"group3"   LMID="tpcc_cli"    GRPNO=6 ENVFILE="env.two_task3"

*SERVERS
tpcc_srv_del SRVGRP="DEL3" SRVID=1 RQADDR=delq1 REPLYQ=N CLOPT="-A  -- 1"
tpcc_srv_del SRVGRP="DEL3" SRVID=2 RQADDR=delq2 REPLYQ=N CLOPT="-A  -- 2"
tpcc_srv_del SRVGRP="DEL3" SRVID=3 RQADDR=delq3 REPLYQ=N CLOPT="-A  -- 3"
tpcc_srv_del SRVGRP="DEL3" SRVID=4 RQADDR=delq4 REPLYQ=N CLOPT="-A  -- 4"
tpcc_srv_del SRVGRP="DEL3" SRVID=5 RQADDR=delq5 REPLYQ=N CLOPT="-A  -- 5"
tpcc_srv_del SRVGRP="DEL3" SRVID=6 RQADDR=delq6 REPLYQ=N CLOPT="-A  -- 6"
tpcc_srv_del SRVGRP="DEL3" SRVID=7 RQADDR=delq7 REPLYQ=N CLOPT="-A  -- 7"
tpcc_srv_del SRVGRP="DEL3" SRVID=8 RQADDR=delq8 REPLYQ=N CLOPT="-A  -- 8"
tpcc_srv_del SRVGRP="DEL3" SRVID=9 RQADDR=delq9 REPLYQ=N CLOPT="-A  -- 9"
tpcc_srv_del SRVGRP="DEL3" SRVID=10 RQADDR=delq10 REPLYQ=N CLOPT="-A  -- 10"
tpcc_srv_del SRVGRP="DEL3" SRVID=11 RQADDR=delq11 REPLYQ=N CLOPT="-A  -- 11"
tpcc_srv_del SRVGRP="DEL3" SRVID=12 RQADDR=delq12 REPLYQ=N CLOPT="-A  -- 12"
tpcc_srv_del SRVGRP="DEL3" SRVID=13 RQADDR=delq13 REPLYQ=N CLOPT="-A  -- 13"
tpcc_srv_del SRVGRP="DEL3" SRVID=14 RQADDR=delq14 REPLYQ=N CLOPT="-A  -- 14"
tpcc_srv_del SRVGRP="DEL3" SRVID=15 RQADDR=delq15 REPLYQ=N CLOPT="-A  -- 15"
tpcc_srv_del SRVGRP="DEL3" SRVID=16 RQADDR=delq16 REPLYQ=N CLOPT="-A  -- 16"
tpcc_srv_del SRVGRP="DEL3" SRVID=17 RQADDR=delq17 REPLYQ=N CLOPT="-A  -- 17"
tpcc_srv_del SRVGRP="DEL3" SRVID=18 RQADDR=delq18 REPLYQ=N CLOPT="-A  -- 18"
tpcc_srv_del SRVGRP="DEL3" SRVID=19 RQADDR=delq19 REPLYQ=N CLOPT="-A  -- 19"
tpcc_srv_del SRVGRP="DEL3" SRVID=20 RQADDR=delq20 REPLYQ=N CLOPT="-A  -- 20"
tpcc_srv_del SRVGRP="DEL3" SRVID=21 RQADDR=delq21 REPLYQ=N CLOPT="-A  -- 21"

tpcc_srv_ora SRVGRP="group1" SRVID=101 RQADDR=svcq1 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group1" SRVID=102 RQADDR=svcq2 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group1" SRVID=103 RQADDR=svcq3 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group1" SRVID=104 RQADDR=svcq4 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group1" SRVID=105 RQADDR=svcq5 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group2" SRVID=106 RQADDR=svcq6 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group2" SRVID=107 RQADDR=svcq7 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group2" SRVID=108 RQADDR=svcq8 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group2" SRVID=109 RQADDR=svcq9 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group2" SRVID=110 RQADDR=svcq10 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=111 RQADDR=svcq11 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=112 RQADDR=svcq12 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=113 RQADDR=svcq13 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=114 RQADDR=svcq14 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=115 RQADDR=svcq15 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=116 RQADDR=svcq16 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=117 RQADDR=svcq17 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=118 RQADDR=svcq18 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=119 RQADDR=svcq19 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=120 RQADDR=svcq20 REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=121 RQADDR=svcq21 REPLYQ=Y MIN=1 MAX=1
```

```
tpcc_srv_ora SRVGRP="group3" SRVID=122 RQADDR=svcq22
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=123 RQADDR=svcq23
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=124 RQADDR=svcq24
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=125 RQADDR=svcq25
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=126 RQADDR=svcq26
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=127 RQADDR=svcq27
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=128 RQADDR=svcq28
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=129 RQADDR=svcq29
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=130 RQADDR=svcq30
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=131 RQADDR=svcq31
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=132 RQADDR=svcq32
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=133 RQADDR=svcq33
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=134 RQADDR=svcq34
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=135 RQADDR=svcq35
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=136 RQADDR=svcq36
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=137 RQADDR=svcq37
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=138 RQADDR=svcq38
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=139 RQADDR=svcq39
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=140 RQADDR=svcq40
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=141 RQADDR=svcq41
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=142 RQADDR=svcq42
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=143 RQADDR=svcq43
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=144 RQADDR=svcq44
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=145 RQADDR=svcq45
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=146 RQADDR=svcq46
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=147 RQADDR=svcq47
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=148 RQADDR=svcq48
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=149 RQADDR=svcq49
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=150 RQADDR=svcq50
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=151 RQADDR=svcq51
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=152 RQADDR=svcq52
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=153 RQADDR=svcq53
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=154 RQADDR=svcq54
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=155 RQADDR=svcq55
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=156 RQADDR=svcq56
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=157 RQADDR=svcq57
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=158 RQADDR=svcq58
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=159 RQADDR=svcq59
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=160 RQADDR=svcq60
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=161 RQADDR=svcq61
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=162 RQADDR=svcq62
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=163 RQADDR=svcq63
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=164 RQADDR=svcq64
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=165 RQADDR=svcq65
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=166 RQADDR=svcq66
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=167 RQADDR=svcq67
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=168 RQADDR=svcq68
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=169 RQADDR=svcq69
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=170 RQADDR=svcq70
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=171 RQADDR=svcq71
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=172 RQADDR=svcq72
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=173 RQADDR=svcq73
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=174 RQADDR=svcq74
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=175 RQADDR=svcq75
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=176 RQADDR=svcq76
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=177 RQADDR=svcq77
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=178 RQADDR=svcq78
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=179 RQADDR=svcq79
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=180 RQADDR=svcq80
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=181 RQADDR=svcq81
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=182 RQADDR=svcq82
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=183 RQADDR=svcq83
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=184 RQADDR=svcq84
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=185 RQADDR=svcq85
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=186 RQADDR=svcq86
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=187 RQADDR=svcq87
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=188 RQADDR=svcq88
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=189 RQADDR=svcq89
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=190 RQADDR=svcq90
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=191 RQADDR=svcq91
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=192 RQADDR=svcq92
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=193 RQADDR=svcq93
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=194 RQADDR=svcq94
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=195 RQADDR=svcq95
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=196 RQADDR=svcq96
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=197 RQADDR=svcq97
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=198 RQADDR=svcq98
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=199 RQADDR=svcq99
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=200 RQADDR=svcq100
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=201 RQADDR=svcq101
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=202 RQADDR=svcq102
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=203 RQADDR=svcq103
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=204 RQADDR=svcq104
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=205 RQADDR=svcq105
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=206 RQADDR=svcq106
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=207 RQADDR=svcq107
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=208 RQADDR=svcq108
REPLYQ=Y MIN=1 MAX=1
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tpcc_srv_ora SRVGRP="group3" SRVID=209 RQADDR=svcq109
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=210 RQADDR=svcq110
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=211 RQADDR=svcq111
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=212 RQADDR=svcq112
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=213 RQADDR=svcq113
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=214 RQADDR=svcq114
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=215 RQADDR=svcq115
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=216 RQADDR=svcq116
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=217 RQADDR=svcq117
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=218 RQADDR=svcq118
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=219 RQADDR=svcq119
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=220 RQADDR=svcq120
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=221 RQADDR=svcq121
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=222 RQADDR=svcq122
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=223 RQADDR=svcq123
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=224 RQADDR=svcq124
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=225 RQADDR=svcq125
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=226 RQADDR=svcq126
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=227 RQADDR=svcq127
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=228 RQADDR=svcq128
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=229 RQADDR=svcq129
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=230 RQADDR=svcq130
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=231 RQADDR=svcq131
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=232 RQADDR=svcq132
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=233 RQADDR=svcq133
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=234 RQADDR=svcq134
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=235 RQADDR=svcq135
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=236 RQADDR=svcq136
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=237 RQADDR=svcq137
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=238 RQADDR=svcq138
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=239 RQADDR=svcq139
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=240 RQADDR=svcq140
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=241 RQADDR=svcq141
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=242 RQADDR=svcq142
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=243 RQADDR=svcq143
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=244 RQADDR=svcq144
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=245 RQADDR=svcq145
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=246 RQADDR=svcq146
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=247 RQADDR=svcq147
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=248 RQADDR=svcq148
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=249 RQADDR=svcq149
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=250 RQADDR=svcq150
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=251 RQADDR=svcq151
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=252 RQADDR=svcq152
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=253 RQADDR=svcq153
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=254 RQADDR=svcq154
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=255 RQADDR=svcq155
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=256 RQADDR=svcq156
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=257 RQADDR=svcq157
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=258 RQADDR=svcq158
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=259 RQADDR=svcq159
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=260 RQADDR=svcq160
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=261 RQADDR=svcq161
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=262 RQADDR=svcq162
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=263 RQADDR=svcq163
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=264 RQADDR=svcq164
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=265 RQADDR=svcq165
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=266 RQADDR=svcq166
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=267 RQADDR=svcq167
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=268 RQADDR=svcq168
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=269 RQADDR=svcq169
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=270 RQADDR=svcq170
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=271 RQADDR=svcq171
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=272 RQADDR=svcq172
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=273 RQADDR=svcq173
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=274 RQADDR=svcq174
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=275 RQADDR=svcq175
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=276 RQADDR=svcq176
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=277 RQADDR=svcq177
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=278 RQADDR=svcq178
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=279 RQADDR=svcq179
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=280 RQADDR=svcq180
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=281 RQADDR=svcq181
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=282 RQADDR=svcq182
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=283 RQADDR=svcq183
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=284 RQADDR=svcq184
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=285 RQADDR=svcq185
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=286 RQADDR=svcq186
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=287 RQADDR=svcq187
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=288 RQADDR=svcq188
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=289 RQADDR=svcq189
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=290 RQADDR=svcq190
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=291 RQADDR=svcq191
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=292 RQADDR=svcq192
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=293 RQADDR=svcq193
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=294 RQADDR=svcq194
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=295 RQADDR=svcq195
REPLYQ=Y MIN=1 MAX=1
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tpcc_srv_ora SRVGRP="group3" SRVID=296 RQADDR=svcq196
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=297 RQADDR=svcq197
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=298 RQADDR=svcq198
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=299 RQADDR=svcq199
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=300 RQADDR=svcq200
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=301 RQADDR=svcq201
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=302 RQADDR=svcq202
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=303 RQADDR=svcq203
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=304 RQADDR=svcq204
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=305 RQADDR=svcq205
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=306 RQADDR=svcq206
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=307 RQADDR=svcq207
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=308 RQADDR=svcq208
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=309 RQADDR=svcq209
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=310 RQADDR=svcq210
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=311 RQADDR=svcq211
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=312 RQADDR=svcq212
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=313 RQADDR=svcq213
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=314 RQADDR=svcq214
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=315 RQADDR=svcq215
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=316 RQADDR=svcq216
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=317 RQADDR=svcq217
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=318 RQADDR=svcq218
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=319 RQADDR=svcq219
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=320 RQADDR=svcq220
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=321 RQADDR=svcq221
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=322 RQADDR=svcq222
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=323 RQADDR=svcq223
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=324 RQADDR=svcq224
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=325 RQADDR=svcq225
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=326 RQADDR=svcq226
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=327 RQADDR=svcq227
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=328 RQADDR=svcq228
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=329 RQADDR=svcq229
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=330 RQADDR=svcq230
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=331 RQADDR=svcq231
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=332 RQADDR=svcq232
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=333 RQADDR=svcq233
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=334 RQADDR=svcq234
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=335 RQADDR=svcq235
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=336 RQADDR=svcq236
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=337 RQADDR=svcq237
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=338 RQADDR=svcq238
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=339 RQADDR=svcq239
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=340 RQADDR=svcq240
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=341 RQADDR=svcq241
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=342 RQADDR=svcq242
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=343 RQADDR=svcq243
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=344 RQADDR=svcq244
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=345 RQADDR=svcq245
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=346 RQADDR=svcq246
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=347 RQADDR=svcq247
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=348 RQADDR=svcq248
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=349 RQADDR=svcq249
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=350 RQADDR=svcq250
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=351 RQADDR=svcq251
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=352 RQADDR=svcq252
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=353 RQADDR=svcq253
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=354 RQADDR=svcq254
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=355 RQADDR=svcq255
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=356 RQADDR=svcq256
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=357 RQADDR=svcq257
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=358 RQADDR=svcq258
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=359 RQADDR=svcq259
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=360 RQADDR=svcq260
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=361 RQADDR=svcq261
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=362 RQADDR=svcq262
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=363 RQADDR=svcq263
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=364 RQADDR=svcq264
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=365 RQADDR=svcq265
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=366 RQADDR=svcq266
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=367 RQADDR=svcq267
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=368 RQADDR=svcq268
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=369 RQADDR=svcq269
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=370 RQADDR=svcq270
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=371 RQADDR=svcq271
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=372 RQADDR=svcq272
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=373 RQADDR=svcq273
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=374 RQADDR=svcq274
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=375 RQADDR=svcq275
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=376 RQADDR=svcq276
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=377 RQADDR=svcq277
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=378 RQADDR=svcq278
REPLYQ=Y MIN=1 MAX=1
tpcc_srv_ora SRVGRP="group3" SRVID=379 RQADDR=svcq279
REPLYQ=Y MIN=1 MAX=1

*SERVICES
DEL
NEWO
ORDS
PAYM
```

STOCK

server.xml – clients

Webserver configuration

```
<?xml version="1.0" encoding="UTF-8"?>

<!--
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  Use is subject to license terms.
-->

<server>
  <cluster>
    <local-host>X64</local-host>
    <instance>
      <host>X64</host>
    </instance>
  </cluster>

  <log>
    <log-file>../logs/errors</log-file>
    <log-level>failure</log-level>
  </log>

  <platform>64</platform>

  <temp-path>/tmp/https-X64-6accbd0a</temp-path>

  <dns>
    <enabled>false</enabled>
    <async>false</async>
  </dns>
  <stats>
    <enabled>true</enabled>
  </stats>
  <qos>
    <enabled>false</enabled>
  </qos>
  <acl-cache>
    <enabled>false</enabled>
  </acl-cache>
  <ssl-session-cache>
    <enabled>false</enabled>
  </ssl-session-cache>
  <file-cache>
    <enabled>false</enabled>
<!--
    <max-open-files>1024</max-open-files>
-->
  </file-cache>

  <user>dbbench</user>

  <keep-alive>
    <enabled>true</enabled>
    <threads>32</threads>
    <max-connections>600000</max-connections>
    <timeout>3600</timeout>
  <poll-interval>.10</poll-interval>
</keep-alive>

<thread-pool>
  <queue-size>600000</queue-size>
  <min-threads>768</min-threads>
  <max-threads>768</max-threads>
  <stack-size>131072</stack-size>
</thread-pool>

<mime-file>mime.types</mime-file>

<access-log>
  <file>../logs/access</file>
</access-log>

<http-listener>
  <name>http-listener-1</name>
  <ip>192.168.200.1</ip>
  <port>8080</port>
  <acceptor-threads>4</acceptor-threads>
  <listen-queue-size>81920</listen-queue-size>
  <server-name>X64</server-name>
  <default-virtual-server-name>X64</default-virtual-server-name>
</http-listener>
<http-listener>
  <name>http-listener-2</name>
  <ip>192.168.200.1</ip>
  <port>8081</port>
  <acceptor-threads>4</acceptor-threads>
  <listen-queue-size>81920</listen-queue-size>
  <server-name>X64</server-name>
  <default-virtual-server-name>X64</default-virtual-server-name>
</http-listener>
<http-listener>
  <name>http-listener-3</name>
  <ip>192.168.200.1</ip>
  <port>8082</port>
  <acceptor-threads>4</acceptor-threads>
  <listen-queue-size>81920</listen-queue-size>
  <server-name>X64</server-name>
  <default-virtual-server-name>X64</default-virtual-server-name>
</http-listener>
<http-listener>
  <name>http-listener-4</name>
  <ip>192.168.201.1</ip>
  <port>8080</port>
  <acceptor-threads>4</acceptor-threads>
  <listen-queue-size>81920</listen-queue-size>
  <server-name>X64</server-name>
  <default-virtual-server-name>X64</default-virtual-server-name>
</http-listener>
<http-listener>
  <name>http-listener-5</name>
  <ip>192.168.201.1</ip>
  <port>8081</port>
  <acceptor-threads>4</acceptor-threads>
  <listen-queue-size>81920</listen-queue-size>
    <server-name>X64</server-name>
    <default-virtual-server-name>X64</default-virtual-server-name>
  </http-listener>
  <http-listener>
    <name>http-listener-6</name>
    <ip>192.168.201.1</ip>
    <port>8082</port>
    <acceptor-threads>4</acceptor-threads>
    <listen-queue-size>81920</listen-queue-size>
    <server-name>X64</server-name>
    <default-virtual-server-name>X64</default-virtual-server-name>
  </http-listener>
  <virtual-server>
    <name>X64</name>
    <host>X64</host>
    <http-listener-name>http-listener-1</http-listener-name>
    <http-listener-name>http-listener-2</http-listener-name>
    <http-listener-name>http-listener-3</http-listener-name>
    <http-listener-name>http-listener-4</http-listener-name>
    <http-listener-name>http-listener-5</http-listener-name>
    <http-listener-name>http-listener-6</http-listener-name>
    <document-root>/sun/webserver7/https-X64/docs</document-root>
  </virtual-server>
</server>
```

magnus.conf – clients

```
#
# Copyright 2008 Sun Microsystems, Inc.  All rights reserved.
# Use is subject to license terms.
#
Init fn="load-modules" shlib="/sun/webserver7/tpcc/plugins/tpccApp.so"
funcs="TpccInit,TpccService"
Init fn="define-perf-bucket" name="tpcc-bucket" description="TPCC
responses"
Init fn="TpccInit" LateInit="no" max-workers=768
```

obj.conf – clients

```
# # Copyright 2008 Sun Microsystems, Inc. All rights reserved. # Use is
subject to license terms. # # You can edit this file, but comments and
formatting changes # might be lost when you use the administration GUI or
CLI. NameTrans fn="assign-name" from="/tpcc*" name="tpcc"
nostat="/tpcc*" find-pathinfo-forward=true NameTrans fn="assign-name"
from="/.perf" name="perf" ObjectType fn="force-type" type="magnus-
internal/tpcc" Service fn="TpccService" method="(GET|POST)"
type="magnus-internal/tpcc" bucket="tpcc-bucket" Service fn="service-
dump"
```

metastat -p output – clients

```
metastat: client1: there are no existing databases
```

SAN Switch Configurations

Brocade DCX – DATA

Switch Information Report for dcx1-ch

List of Switches

```
Switch ID   Worldwide Name           Enet IP Addr
FC IP Addr      Name
---------------------------------------------------
----------------------
  1: fffc01 10:00:00:05:1e:ec:50:00 10.196.0.104
0.0.0.0        >"dcx1-ch"
```

Current Switch Information

```
Ethernet IP Address: 10.196.0.104
Ethernet Subnetmask: 255.255.0.0
Fibre Channel IP Address: 0.0.0.0
Fibre Channel Subnetmask: 0.0.0.0
Gateway Address: 10.196.0.1
Ethernet IPv6 Addresses:

Kernel:     2.6.14.2
Fabric OS:  v6.3.1a
Made on:    Fri Feb 26 18:23:42 2010
Flash:      Wed Apr 14 14:43:45 2010
BootProm:   1.0.15
```

List of Inter-Switch Links

```
Local Domain ID: 1

Local Port     Domain     Remote Port     State
---------------------------------------------------
----
```

List of Ports

```
switchName:     dcx1-ch
switchType:     62.3
switchState:    Online
switchMode:     Native
switchRole:     Principal
switchDomain:   1
switchId:       fffc01
switchWwn:      10:00:00:05:1e:ec:50:00
zoning:         ON (All_Ports)
switchBeacon:   OFF
FC Router:      OFF
Allow XISL Use: OFF
LS Attributes:  [FID: 128, Base Switch: No, Default
Switch: Yes, Address Mode 0]

Index Slot Port Address Media Speed State     Proto
===================================================
 16    2    0   011000   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:86:19
 17    2    1   011100   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:f1
 18    2    2   011200   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:35
 19    2    3   011300   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:f3
 20    2    4   011400   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:77
 21    2    5   011500   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:78:19
 22    2    6   011600   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:07:1a
 23    2    7   011700   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:3b:41
 24    2    8   011800   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:fe:19
 25    2    9   011900   id    N8   No_Light    FC
 26    2   10   011a00   id    N8   No_Light    FC
 27    2   11   011b00   id    N8   No_Light    FC
 28    2   12   011c00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:af:e9
 29    2   13   011d00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:21
 30    2   14   011e00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:af:29
 31    2   15   011f00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:69
144    2   16   019040   id    N8   No_Light    FC
145    2   17   019140   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:cd
146    2   18   019240   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:29
147    2   19   019340   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:59
148    2   20   019440   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:11
149    2   21   019540   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:91
150    2   22   019640   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:bd
151    2   23   019740   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:19
152    2   24   019840   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:86:19
153    2   25   019940   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:f0
154    2   26   019a40   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:34
155    2   27   019b40   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:f2
156    2   28   019c40   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:76
157    2   29   019d40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:78:19
158    2   30   019e40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:07:1a
159    2   31   019f40   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:3b:40
272    2   32   0198c0   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:fe:19
273    2   33   0199c0   id    N8   No_Light    FC
274    2   34   019ac0   id    N8   No_Light    FC
275    2   35   019bc0   id    N8   No_Light    FC
276    2   36   019cc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:af:e8
277    2   37   019dc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:20
278    2   38   019ec0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:af:28
279    2   39   019fc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:68
280    2   40   0190c0   id    N8   No_Light    FC
281    2   41   0191c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:cc
282    2   42   0192c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:28
283    2   43   0193c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:58
284    2   44   0194c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:10
285    2   45   0195c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:90
286    2   46   0196c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:bc
287    2   47   0197c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:18
 32    3    0   012000   id    N8   Online      FC
F-Port  21:01:00:1b:32:bb:13:6b
 33    3    1   012100   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:6e
 34    3    2   012200   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:ee
 35    3    3   012300   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:7c:e5
 36    3    4   012400   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:79
 37    3    5   012500   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:3b:23
 38    3    6   012600   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:22:18
 39    3    7   012700   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:5d
 40    3    8   012800   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:3c:85
 41    3    9   012900   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1b:81
 42    3   10   012a00   id    N8   No_Light    FC
 43    3   11   012b00   id    N8   No_Light    FC
 44    3   12   012c00   id    N8   No_Light    FC
 45    3   13   012d00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:ae:89
 46    3   14   012e00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:ed
 47    3   15   012f00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:01
160    3   16   01a040   id    N8   No_Light    FC
161    3   17   01a140   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:59
162    3   18   01a240   id    N8   Online      FC
```

```
F-Port  10:00:00:00:c9:94:9b:21
163    3   19   01a340   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:51
164    3   20   01a440   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:15
165    3   21   01a540   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:09
166    3   22   01a640   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:ed
167    3   23   01a740   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:a5
168    3   24   01a840   id    N8   Online      FC
F-Port  21:00:00:1b:32:9b:13:6b
169    3   25   01a940   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:6f
170    3   26   01aa40   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:ef
171    3   27   01ab40   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:7c:e4
172    3   28   01ac40   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:78
173    3   29   01ad40   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:3b:22
174    3   30   01ae40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:22:18
175    3   31   01af40   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:5c
288    3   32   01a8c0   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:3c:84
289    3   33   01a9c0   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1b:80
290    3   34   01aac0   id    N8   No_Light    FC
291    3   35   01abc0   id    N8   No_Light    FC
292    3   36   01acc0   id    N8   No_Light    FC
293    3   37   01adc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:ae:88
294    3   38   01aec0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:ec
295    3   39   01afc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:00
296    3   40   01a0c0   id    N8   No_Light    FC
297    3   41   01a1c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:58
298    3   42   01a2c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:20
299    3   43   01a3c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:50
300    3   44   01a4c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:14
301    3   45   01a5c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:08
302    3   46   01a6c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:ec
303    3   47   01a7c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:a4
 48    4    0   013000   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d3:27
 49    4    1   013100   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:c4
```

```
 50    4    2   013200   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:00
 51    4    3   013300   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:4d
 52    4    4   013400   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:75:5d
 53    4    5   013500   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:f0:19
 54    4    6   013600   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:c2:19
 55    4    7   013700   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1b:7f
 56    4    8   013800   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:d7
 57    4    9   013900   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:bb:19
 58    4   10   013a00   id    N8   No_Light    FC
 59    4   11   013b00   id    N8   No_Light    FC
 60    4   12   013c00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:ae:51
 61    4   13   013d00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:ae:e1
 62    4   14   013e00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:9d
 63    4   15   013f00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:c1
176    4   16   01b040   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:21
177    4   17   01b140   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:85
178    4   18   01b240   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:f1
179    4   19   01b340   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:9d
180    4   20   01b440   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:35
181    4   21   01b540   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:c9
182    4   22   01b640   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:4d
183    4   23   01b740   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:7d
184    4   24   01b840   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d3:26
185    4   25   01b940   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:c5
186    4   26   01ba40   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:01
187    4   27   01bb40   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:4c
188    4   28   01bc40   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:75:5c
189    4   29   01bd40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:f0:19
190    4   30   01be40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:c2:19
191    4   31   01bf40   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1b:7e
304    4   32   01b8c0   id    N8   Online      FC
```

```
F-Port  21:00:00:24:ff:30:1c:d6
305    4   33   01b9c0   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:bb:19
306    4   34   01bac0   id    N8   No_Light    FC
307    4   35   01bbc0   id    N8   No_Light    FC
308    4   36   01bcc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:ae:50
309    4   37   01bdc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:ae:e0
310    4   38   01bec0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:9c
311    4   39   01bfc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:c0
312    4   40   01b0c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:20
313    4   41   01b1c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:84
314    4   42   01b2c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:f0
315    4   43   01b3c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:9c
316    4   44   01b4c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:34
317    4   45   01b5c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:c8
318    4   46   01b6c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:4c
319    4   47   01b7c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:7c
384    5    0   ------   cu    8G   No_Sync     FC
385    5    1   ------   cu    8G   No_Sync     FC
386    5    2   ------   cu    8G   No_Sync     FC
387    5    3   ------   cu    8G   No_Sync     FC
388    5    4   ------   cu    8G   No_Sync     FC
389    5    5   ------   cu    8G   No_Sync     FC
390    5    6   ------   cu    8G   No_Sync     FC
391    5    7   ------   cu    8G   No_Sync     FC
392    5    8   ------   cu    8G   No_Sync     FC
393    5    9   ------   cu    8G   No_Sync     FC
394    5   10   ------   cu    8G   No_Sync     FC
395    5   11   ------   cu    8G   No_Sync     FC
396    5   12   ------   cu    8G   No_Sync     FC
397    5   13   ------   cu    8G   No_Sync     FC
398    5   14   ------   cu    8G   No_Sync     FC
399    5   15   ------   cu    8G   No_Sync     FC
400    5   16   ------   cu    8G   No_Sync     FC
401    5   17   ------   cu    8G   No_Sync     FC
402    5   18   ------   cu    8G   No_Sync     FC
403    5   19   ------   cu    8G   No_Sync     FC
404    5   20   ------   cu    8G   No_Sync     FC
405    5   21   ------   cu    8G   No_Sync     FC
406    5   22   ------   cu    8G   No_Sync     FC
407    5   23   ------   cu    8G   No_Sync     FC
408    5   24   ------   cu    8G   No_Sync     FC
409    5   25   ------   cu    8G   No_Sync     FC
410    5   26   ------   cu    8G   No_Sync     FC
411    5   27   ------   cu    8G   No_Sync     FC
412    5   28   ------   cu    8G   No_Sync     FC
413    5   29   ------   cu    8G   No_Sync     FC
```

```
414    5   30    ------    cu    8G    No_Sync     FC
415    5   31    ------    cu    8G    No_Sync     FC
416    8    0    ------    cu    8G    No_Sync     FC
417    8    1    ------    cu    8G    No_Sync     FC
418    8    2    ------    cu    8G    No_Sync     FC
419    8    3    ------    cu    8G    No_Sync     FC
420    8    4    ------    cu    8G    No_Sync     FC
421    8    5    ------    cu    8G    No_Sync     FC
422    8    6    ------    cu    8G    No_Sync     FC
423    8    7    ------    cu    8G    No_Sync     FC
424    8    8    ------    cu    8G    No_Sync     FC
425    8    9    ------    cu    8G    No_Sync     FC
426    8   10    ------    cu    8G    No_Sync     FC
427    8   11    ------    cu    8G    No_Sync     FC
428    8   12    ------    cu    8G    No_Sync     FC
429    8   13    ------    cu    8G    No_Sync     FC
430    8   14    ------    cu    8G    No_Sync     FC
431    8   15    ------    cu    8G    No_Sync     FC
432    8   16    ------    cu    8G    No_Sync     FC
433    8   17    ------    cu    8G    No_Sync     FC
434    8   18    ------    cu    8G    No_Sync     FC
435    8   19    ------    cu    8G    No_Sync     FC
436    8   20    ------    cu    8G    No_Sync     FC
437    8   21    ------    cu    8G    No_Sync     FC
438    8   22    ------    cu    8G    No_Sync     FC
439    8   23    ------    cu    8G    No_Sync     FC
440    8   24    ------    cu    8G    No_Sync     FC
441    8   25    ------    cu    8G    No_Sync     FC
442    8   26    ------    cu    8G    No_Sync     FC
443    8   27    ------    cu    8G    No_Sync     FC
444    8   28    ------    cu    8G    No_Sync     FC
445    8   29    ------    cu    8G    No_Sync     FC
446    8   30    ------    cu    8G    No_Sync     FC
447    8   31    ------    cu    8G    No_Sync     FC
 64    9    0    014000    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d3:1f
 65    9    1    014100    id    N8    Online      FC
F-Port  21:00:00:24:ff:20:7d:cd
 66    9    2    014200    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d2:97
 67    9    3    014300    id    N8    Online      FC
F-Port  21:00:00:24:ff:20:7d:d1
 68    9    4    014400    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d1:dd
 69    9    5    014500    id    N8    Online      FC
F-Port  21:01:00:1b:32:b2:2d:1a
 70    9    6    014600    id    N8    Online      FC
F-Port  21:01:00:1b:32:b2:13:19
 71    9    7    014700    id    N8    Online      FC
F-Port  21:00:00:24:ff:30:1c:ab
 72    9    8    014800    id    N8    Online      FC
F-Port  21:00:00:24:ff:30:1c:49
 73    9    9    014900    id    N8    Online      FC
F-Port  21:00:00:24:ff:30:1b:ad
 74    9   10    014a00    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:99:b1
 75    9   11    014b00    id    N8    No_Light    FC
 76    9   12    014c00    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:af:dd
```

```
 77    9   13    014d00    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:af:c9
 78    9   14    014e00    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:99:d9
 79    9   15    014f00    id    N8    No_Light    FC
192    9   16    01c040    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9c:45
193    9   17    01c140    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9a:29
194    9   18    01c240    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9d:4d
195    9   19    01c340    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:99:fd
196    9   20    01c440    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9a:2d
197    9   21    01c540    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:af:2d
198    9   22    01c640    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:90:6d
199    9   23    01c740    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9b:25
200    9   24    01c840    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d3:1e
201    9   25    01c940    id    N8    Online      FC
F-Port  21:00:00:24:ff:20:7d:cc
202    9   26    01ca40    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d2:96
203    9   27    01cb40    id    N8    Online      FC
F-Port  21:00:00:24:ff:20:7d:d0
204    9   28    01cc40    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d1:dc
205    9   29    01cd40    id    N8    Online      FC
F-Port  21:00:00:1b:32:92:2d:1a
206    9   30    01ce40    id    N8    Online      FC
F-Port  21:00:00:1b:32:92:13:19
207    9   31    01cf40    id    N8    Online      FC
F-Port  21:00:00:24:ff:30:1c:aa
320    9   32    01c8c0    id    N8    Online      FC
F-Port  21:00:00:24:ff:30:1c:48
321    9   33    01c9c0    id    N8    Online      FC
F-Port  21:00:00:24:ff:30:1b:ac
322    9   34    01cac0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:99:b0
323    9   35    01cbc0    id    N8    No_Light    FC
324    9   36    01ccc0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:af:dc
325    9   37    01cdc0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:af:c8
326    9   38    01cec0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:99:d8
327    9   39    01cfc0    id    N8    No_Light    FC
328    9   40    01c0c0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9c:44
329    9   41    01c1c0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9a:28
330    9   42    01c2c0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9d:4c
331    9   43    01c3c0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:99:fc
```

```
332    9   44    01c4c0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9a:2c
333    9   45    01c5c0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:af:2c
334    9   46    01c6c0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:90:6c
335    9   47    01c7c0    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9b:24
 80   10    0    015000    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d2:53
 81   10    1    015100    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d2:cb
 82   10    2    015200    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d1:f7
 83   10    3    015300    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d2:e5
 84   10    4    015400    id    N8    Online      FC
F-Port  21:00:00:24:ff:20:74:31
 85   10    5    015500    id    N8    Online      FC
F-Port  21:01:00:1b:32:b2:41:18
 86   10    6    015600    id    N8    Online      FC
F-Port  21:01:00:1b:32:b2:8f:19
 87   10    7    015700    id    N8    Online      FC
F-Port  21:01:00:1b:32:b2:14:19
 88   10    8    015800    id    N8    Online      FC
F-Port  21:00:00:24:ff:30:1c:a1
 89   10    9    015900    id    N8    Online      FC
F-Port  21:00:00:24:ff:20:07:77
 90   10   10    015a00    id    N8    No_Light    FC
 91   10   11    015b00    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:99:45
 92   10   12    015c00    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:ae:f5
 93   10   13    015d00    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:af:59
 94   10   14    015e00    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9d:65
 95   10   15    015f00    id    N8    No_Light    FC
208   10   16    01d040    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9c:e1
209   10   17    01d140    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:90:e5
210   10   18    01d240    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:99:b5
211   10   19    01d340    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9c:25
212   10   20    01d440    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:90:cd
213   10   21    01d540    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:9c:f9
214   10   22    01d640    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:99:2d
215   10   23    01d740    id    N8    Online      FC
F-Port  10:00:00:00:c9:94:91:0d
216   10   24    01d840    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d2:52
217   10   25    01d940    id    N8    Online      FC
F-Port  21:00:00:24:ff:2f:d2:ca
218   10   26    01da40    id    N8    Online      FC
```

```
F-Port  21:00:00:24:ff:2f:d1:f6
219   10   27   01db40   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:e4
220   10   28   01dc40   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:30
221   10   29   01dd40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:41:18
222   10   30   01de40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:8f:19
223   10   31   01df40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:14:19
336   10   32   01d8c0   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:a0
337   10   33   01d9c0   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:07:76
338   10   34   01dac0   id    N8   No_Light    FC
339   10   35   01dbc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:44
340   10   36   01dcc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:ae:f4
341   10   37   01ddc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:af:58
342   10   38   01dec0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:64
343   10   39   01dfc0   id    N8   No_Light    FC
344   10   40   01d0c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9c:e0
345   10   41   01d1c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:90:e4
346   10   42   01d2c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:b4
347   10   43   01d3c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9c:24
348   10   44   01d4c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:90:cc
349   10   45   01d5c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9c:f8
350   10   46   01d6c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:2c
351   10   47   01d7c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:91:0c
 96   11    0   016000   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:6b
 97   11    1   016100   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:3b
 98   11    2   016200   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:7d:57
 99   11    3   016300   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:53
100   11    4   016400   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:12:1a
101   11    5   016500   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:68:19
102   11    6   016600   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:fc
103   11    7   016700   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:21:18
104   11    8   016800   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:3b:45
105   11    9   016900   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:6a:b9
106   11   10   016a00   id    N8   No_Light    FC
107   11   11   016b00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:21
108   11   12   016c00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:e5
109   11   13   016d00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:ae:d9
110   11   14   016e00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:e1
111   11   15   016f00   id    N8   No_Light    FC
224   11   16   01e040   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:2d
225   11   17   01e140   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:35
226   11   18   01e240   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:39
227   11   19   01e340   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:f9
228   11   20   01e440   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:90:9d
229   11   21   01e540   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:01
230   11   22   01e640   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:91:15
231   11   23   01e740   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:89
232   11   24   01e840   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:6a
233   11   25   01e940   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:3a
234   11   26   01ea40   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:7d:56
235   11   27   01eb40   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:52
236   11   28   01ec40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:12:1a
237   11   29   01ed40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:68:19
238   11   30   01ee40   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:fd
239   11   31   01ef40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:21:18
352   11   32   01e8c0   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:3b:44
353   11   33   01e9c0   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:6a:b8
354   11   34   01eac0   id    N8   No_Light    FC
355   11   35   01ebc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:20
356   11   36   01ecc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:e4
357   11   37   01edc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:ae:d8
358   11   38   01eec0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:e0
359   11   39   01efc0   id    N8   No_Light    FC
360   11   40   01e0c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:2c
361   11   41   01e1c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:34
362   11   42   01e2c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:38
363   11   43   01e3c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:f8
364   11   44   01e4c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:90:9c
365   11   45   01e5c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:00
366   11   46   01e6c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:30
367   11   47   01e7c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:88
112   12    0   017000   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:7c:19
113   12    1   017100   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:7d:b5
114   12    2   017200   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:c9
115   12    3   017300   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:f5
116   12    4   017400   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:53
117   12    5   017500   id    N8   Online      FC
F-Port  21:01:00:1b:32:b2:57:18
118   12    6   017600   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:4f
119   12    7   017700   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:47
120   12    8   017800   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:e1
121   12    9   017900   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:6a:c1
122   12   10   017a00   id    N8   No_Light    FC
123   12   11   017b00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9c:1d
124   12   12   017c00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:41
125   12   13   017d00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:af:11
126   12   14   017e00   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:1d
127   12   15   017f00   id    N8   No_Light    FC
240   12   16   01f040   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:f5
241   12   17   01f140   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:bd
242   12   18   01f240   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:45
243   12   19   01f340   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:ed
244   12   20   01f440   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:f1
245   12   21   01f540   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:41
246   12   22   01f640   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:6d
```

```
247   12   23   01f740   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:0d
248   12   24   01f840   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:7c:19
249   12   25   01f940   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:7d:b4
250   12   26   01fa40   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d2:c8
251   12   27   01fb40   id    N8   Online      FC
F-Port  21:00:00:24:ff:2f:d1:f4
252   12   28   01fc40   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:52
253   12   29   01fd40   id    N8   Online      FC
F-Port  21:00:00:1b:32:92:57:18
254   12   30   01fe40   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:4e
255   12   31   01ff40   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:74:46
368   12   32   01f8c0   id    N8   Online      FC
F-Port  21:00:00:24:ff:30:1c:e0
369   12   33   01f9c0   id    N8   Online      FC
F-Port  21:00:00:24:ff:20:6a:c0
370   12   34   01fac0   id    N8   No_Light    FC
371   12   35   01fbc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9c:1c
372   12   36   01fcc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9d:40
373   12   37   01fdc0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:af:10
374   12   38   01fec0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:1c
375   12   39   01ffc0   id    N8   No_Light    FC
376   12   40   01f0c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:f4
377   12   41   01f1c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:bc
378   12   42   01f2c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:44
379   12   43   01f3c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:ec
380   12   44   01f4c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:f0
381   12   45   01f5c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:99:40
382   12   46   01f6c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9a:6c
383   12   47   01f7c0   id    N8   Online      FC
F-Port  10:00:00:00:c9:94:9b:0c
```

Name Server

```
{
011000 011100 011200 011300 011400 011500 011600
011700
011800 011c00 011d00 011e00 011f00 012000 012100
012200
012300 012400 012500 012600 012700 012800 012900
012d00
012e00 012f00 013000 013100 013200 013300 013400
013500
013600 013700 013800 013900 013c00 013d00 013e00
013f00
014000 014100 014200 014300 014400 014500 014600
014700
014800 014900 014a00 014c00 014d00 014e00 015000
015100
015200 015300 015400 015500 015600 015700 015800
015900
015b00 015c00 015d00 015e00 016000 016100 016200
016300
016400 016500 016600 016700 016800 016900 016b00
016c00
016d00 016e00 017000 017100 017200 017300 017400
017500
017600 017700 017800 017900 017b00 017c00 017d00
017e00
019140 0191c0 019240 0192c0 019340 0193c0 019440
0194c0
019540 0195c0 019640 0196c0 019740 0197c0 019840
0198c0
019940 019a40 019b40 019c40 019cc0 019d40 019dc0
019e40
019ec0 019f40 019fc0 01a140 01a1c0 01a240 01a2c0
01a340
01a3c0 01a440 01a4c0 01a540 01a5c0 01a640 01a6c0
01a740
01a7c0 01a840 01a8c0 01a940 01a9c0 01aa40 01ab40
01ac40
01ad40 01adc0 01ae40 01aec0 01af40 01afc0 01b040
01b0c0
01b140 01b1c0 01b240 01b2c0 01b340 01b3c0 01b440
01b4c0
01b540 01b5c0 01b640 01b6c0 01b740 01b7c0 01b840
01b8c0
01b940 01b9c0 01ba40 01bb40 01bc40 01bcc0 01bd40
01bdc0
01be40 01bec0 01bf40 01bfc0 01c040 01c0c0 01c140
01c1c0
01c240 01c2c0 01c340 01c3c0 01c440 01c4c0 01c540
01c5c0
01c640 01c6c0 01c740 01c7c0 01c840 01c8c0 01c940
01c9c0
01ca40 01cac0 01cb40 01cc40 01ccc0 01cd40 01cdc0
01ce40
01cec0 01cf40 01d040 01d0c0 01d140 01d1c0 01d240
01d2c0
01d340 01d3c0 01d440 01d4c0 01d540 01d5c0 01d640
01d6c0
01d740 01d7c0 01d840 01d8c0 01d940 01d9c0 01da40
01db40
01dbc0 01dc40 01dcc0 01dd40 01ddc0 01de40 01dec0
01df40
01e040 01e0c0 01e140 01e1c0 01e240 01e2c0 01e340
01e3c0
01e440 01e4c0 01e540 01e5c0 01e640 01e6c0 01e740
01e7c0
01e840 01e8c0 01e940 01e9c0 01ea40 01eb40 01ebc0
01ec40
01ecc0 01ed40 01edc0 01ee40 01eec0 01ef40 01f040
01f0c0
01f140 01f1c0 01f240 01f2c0 01f340 01f3c0 01f440
01f4c0
01f540 01f5c0 01f640 01f6c0 01f740 01f7c0 01f840
01f8c0
01f940 01f9c0 01fa40 01fb40 01fbc0 01fc40 01fcc0
01fd40
01fdc0 01fe40 01fec0 01ff40
300 Nx_Ports in the Fabric }

{
 Type Pid    COS     PortName
NodeName                   TTL(sec)
 N    011000;
3;21:01:00:1b:32:b2:86:19;20:01:00:1b:32:b2:86:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "data7"
    Fabric Port Name: 20:10:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:86:19
    Port Index: 16
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011100;
3;21:00:00:24:ff:2f:d1:f1;20:00:00:24:ff:2f:d1:f1;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data14"
    Fabric Port Name: 20:11:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f1
    Port Index: 17
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011200;
3;21:00:00:24:ff:20:74:35;20:00:00:24:ff:20:74:35;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data21"
    Fabric Port Name: 20:12:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:35
    Port Index: 18
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011300;
3;21:00:00:24:ff:2f:d1:f3;20:00:00:24:ff:2f:d1:f3;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data28"
    Fabric Port Name: 20:13:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f3
    Port Index: 19
```

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    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011400;
3;21:00:00:24:ff:2f:d2:77;20:00:00:24:ff:2f:d2:77;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data35"
    Fabric Port Name: 20:14:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:77
    Port Index: 20
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011500;
3;21:01:00:1b:32:b2:78:19;20:01:00:1b:32:b2:78:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data42"
    Fabric Port Name: 20:15:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:78:19
    Port Index: 21
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011600;
3;21:01:00:1b:32:b2:07:1a;20:01:00:1b:32:b2:07:1a;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data49"
    Fabric Port Name: 20:16:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:07:1a
    Port Index: 22
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011700;
3;21:00:00:24:ff:30:3b:41;20:00:00:24:ff:30:3b:41;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data56"
    Fabric Port Name: 20:17:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:3b:41
    Port Index: 23
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011800;
3;21:01:00:1b:32:b2:fe:19;20:01:00:1b:32:b2:fe:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data63"
    Fabric Port Name: 20:18:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:fe:19
    Port Index: 24
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011c00;
3;10:00:00:00:c9:94:af:e9;20:00:00:00:c9:94:af:e9;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db8"
    Fabric Port Name: 20:1c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:e9
    Port Index: 28
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011d00;
3;10:00:00:00:c9:94:99:21;20:00:00:00:c9:94:99:21;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db1"
    Fabric Port Name: 20:1d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:21
    Port Index: 29
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011e00;
3;10:00:00:00:c9:94:af:29;20:00:00:00:c9:94:af:29;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db18"
    Fabric Port Name: 20:1e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:29
    Port Index: 30
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011f00;
3;10:00:00:00:c9:94:99:69;20:00:00:00:c9:94:99:69;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db11"
    Fabric Port Name: 20:1f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:69
    Port Index: 31
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012000;
3;21:01:00:1b:32:bb:13:6b;20:01:00:1b:32:bb:13:6b;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "data6"
    Fabric Port Name: 20:20:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:bb:13:6b
    Port Index: 32
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012100;
3;21:00:00:24:ff:2f:d2:6e;20:00:00:24:ff:2f:d2:6e;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data13"
    Fabric Port Name: 20:21:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:6e
    Port Index: 33
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012200;
3;21:00:00:24:ff:2f:d1:ee;20:00:00:24:ff:2f:d1:ee;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data20"
    Fabric Port Name: 20:22:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:ee
    Port Index: 34
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012300;
3;21:00:00:24:ff:20:7c:e5;20:00:00:24:ff:20:7c:e5;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data27"
    Fabric Port Name: 20:23:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7c:e5
    Port Index: 35
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012400;
3;21:00:00:24:ff:2f:d2:79;20:00:00:24:ff:2f:d2:79;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data34"
    Fabric Port Name: 20:24:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:79
    Port Index: 36
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012500;
3;21:00:00:24:ff:30:3b:23;20:00:00:24:ff:30:3b:23;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data41"
```

```
    Fabric Port Name: 20:25:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:3b:23
    Port Index: 37
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012600;
3;21:01:00:1b:32:b2:22:18;20:01:00:1b:32:b2:22:18;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data48"
    Fabric Port Name: 20:26:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:22:18
    Port Index: 38
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012700;
3;21:00:00:24:ff:30:1c:5d;20:00:00:24:ff:30:1c:5d;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data55"
    Fabric Port Name: 20:27:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:5d
    Port Index: 39
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012800;
3;21:00:00:24:ff:30:3c:85;20:00:00:24:ff:30:3c:85;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    Fabric Port Name: 20:28:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:3c:85
    Port Index: 40
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012900;
3;21:00:00:24:ff:30:1b:81;20:00:00:24:ff:30:1b:81;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data69"
    Fabric Port Name: 20:29:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1b:81
    Port Index: 41
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012d00;
3;10:00:00:00:c9:94:ae:89;20:00:00:00:c9:94:ae:89;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db24"
    Fabric Port Name: 20:2d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:89
    Port Index: 45
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012e00;
3;10:00:00:00:c9:94:9b:ed;20:00:00:00:c9:94:9b:ed;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db17"
    Fabric Port Name: 20:2e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:ed
    Port Index: 46
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    012f00;
3;10:00:00:00:c9:94:9d:01;20:00:00:00:c9:94:9d:01;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db10"
    Fabric Port Name: 20:2f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:01
    Port Index: 47
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013000;
3;21:00:00:24:ff:2f:d3:27;20:00:00:24:ff:2f:d3:27;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "data5"
    Fabric Port Name: 20:30:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d3:27
    Port Index: 48
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013100;
3;21:00:00:24:ff:2f:d2:c4;20:00:00:24:ff:2f:d2:c4;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data12"
    Fabric Port Name: 20:31:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:c4
    Port Index: 49
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013200;
3;21:00:00:24:ff:2f:d2:00;20:00:00:24:ff:2f:d2:00;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data19"
    Fabric Port Name: 20:32:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:00
    Port Index: 50
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013300;
3;21:00:00:24:ff:20:74:4d;20:00:00:24:ff:20:74:4d;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data26"
    Fabric Port Name: 20:33:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:4d
    Port Index: 51
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013400;
3;21:00:00:24:ff:20:75:5d;20:00:00:24:ff:20:75:5d;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data33"
    Fabric Port Name: 20:34:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:75:5d
    Port Index: 52
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013500;
3;21:01:00:1b:32:b2:f0:19;20:01:00:1b:32:b2:f0:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data40"
    Fabric Port Name: 20:35:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:f0:19
    Port Index: 53
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013600;
3;21:01:00:1b:32:b2:c2:19;20:01:00:1b:32:b2:c2:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data47"
    Fabric Port Name: 20:36:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:c2:19
    Port Index: 54
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013700;
3;21:00:00:24:ff:30:1b:7f;20:00:00:24:ff:30:1b:7f;
na
    FC4s: FCP
```

```
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data54"
    Fabric Port Name: 20:37:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1b:7f
    Port Index: 55
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013800;
3;21:00:00:24:ff:30:1c:d7;20:00:00:24:ff:30:1c:d7;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data61"
    Fabric Port Name: 20:38:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:d7
    Port Index: 56
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013900;
3;21:01:00:1b:32:b2:bb:19;20:01:00:1b:32:b2:bb:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data68"
    Fabric Port Name: 20:39:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:bb:19
    Port Index: 57
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013c00;
3;10:00:00:00:c9:94:ae:51;20:00:00:00:c9:94:ae:51;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db6"
    Fabric Port Name: 20:3c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:51
    Port Index: 60
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013d00;
3;10:00:00:00:c9:94:ae:e1;20:00:00:00:c9:94:ae:e1;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db23"
    Fabric Port Name: 20:3d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:e1
    Port Index: 61
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013e00;
3;10:00:00:00:c9:94:99:9d;20:00:00:00:c9:94:99:9d;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db16"
    Fabric Port Name: 20:3e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:9d
    Port Index: 62
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013f00;
3;10:00:00:00:c9:94:9a:c1;20:00:00:00:c9:94:9a:c1;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db9"
    Fabric Port Name: 20:3f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:c1
    Port Index: 63
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014000;
3;21:00:00:24:ff:2f:d3:1f;20:00:00:24:ff:2f:d3:1f;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "data4"
    Fabric Port Name: 20:40:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d3:1f
    Port Index: 64
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014100;
3;21:00:00:24:ff:20:7d:cd;20:00:00:24:ff:20:7d:cd;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data11"
    Fabric Port Name: 20:41:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7d:cd
    Port Index: 65
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014200;
3;21:00:00:24:ff:2f:d2:97;20:00:00:24:ff:2f:d2:97;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data18"
    Fabric Port Name: 20:42:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:97
    Port Index: 66
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014300;
3;21:00:00:24:ff:20:7d:d1;20:00:00:24:ff:20:7d:d1;
na
    FC4s: FCP [SUN     COMSTAR         1.0 ]
    Fabric Port Name: 20:43:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7d:d1
    Port Index: 67
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014400;
3;21:00:00:24:ff:2f:d1:dd;20:00:00:24:ff:2f:d1:dd;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data32"
    Fabric Port Name: 20:44:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:dd
    Port Index: 68
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014500;
3;21:01:00:1b:32:b2:2d:1a;20:01:00:1b:32:b2:2d:1a;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data39"
    Fabric Port Name: 20:45:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:2d:1a
    Port Index: 69
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014600;
3;21:01:00:1b:32:b2:13:19;20:01:00:1b:32:b2:13:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data46"
    Fabric Port Name: 20:46:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:13:19
    Port Index: 70
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014700;
3;21:00:00:24:ff:30:1c:ab;20:00:00:24:ff:30:1c:ab;
na
    FC4s: FCP [SUN     COMSTAR         1.0 ]
    Fabric Port Name: 20:47:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:ab
    Port Index: 71
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014800;
3;21:00:00:24:ff:30:1c:49;20:00:00:24:ff:30:1c:49;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
```

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    NodeSymb: [6] "data60"
    Fabric Port Name: 20:48:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:49
    Port Index: 72
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014900;
3;21:00:00:24:ff:30:1b:ad;20:00:00:24:ff:30:1b:ad;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data67"
    Fabric Port Name: 20:49:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1b:ad
    Port Index: 73
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014a00;
3;10:00:00:00:c9:94:99:b1;20:00:00:00:c9:94:99:b1;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db7"
    Fabric Port Name: 20:4a:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:b1
    Port Index: 74
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014c00;
3;10:00:00:00:c9:94:af:dd;20:00:00:00:c9:94:af:dd;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db5"
    Fabric Port Name: 20:4c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:dd
    Port Index: 76
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014d00;
3;10:00:00:00:c9:94:af:c9;20:00:00:00:c9:94:af:c9;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db22"
    Fabric Port Name: 20:4d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:c9
    Port Index: 77
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014e00;
3;10:00:00:00:c9:94:99:d9;20:00:00:00:c9:94:99:d9;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db15"
    Fabric Port Name: 20:4e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:d9
    Port Index: 78
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015000;
3;21:00:00:24:ff:2f:d2:53;20:00:00:24:ff:2f:d2:53;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "data3"
    Fabric Port Name: 20:50:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:53
    Port Index: 80
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015100;
3;21:00:00:24:ff:2f:d2:cb;20:00:00:24:ff:2f:d2:cb;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data10"
    Fabric Port Name: 20:51:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:cb
    Port Index: 81
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015200;
3;21:00:00:24:ff:2f:d1:f7;20:00:00:24:ff:2f:d1:f7;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data17"
    Fabric Port Name: 20:52:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f7
    Port Index: 82
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015300;
3;21:00:00:24:ff:2f:d2:e5;20:00:00:24:ff:2f:d2:e5;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data24"
    Fabric Port Name: 20:53:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:e5
    Port Index: 83
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015400;
3;21:00:00:24:ff:20:74:31;20:00:00:24:ff:20:74:31;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data31"
    Fabric Port Name: 20:54:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:31
    Port Index: 84
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015500;
3;21:01:00:1b:32:b2:41:18;20:01:00:1b:32:b2:41:18;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data38"
    Fabric Port Name: 20:55:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:41:18
    Port Index: 85
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015600;
3;21:01:00:1b:32:b2:8f:19;20:01:00:1b:32:b2:8f:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data45"
    Fabric Port Name: 20:56:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:8f:19
    Port Index: 86
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015700;
3;21:01:00:1b:32:b2:14:19;20:01:00:1b:32:b2:14:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data52"
    Fabric Port Name: 20:57:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:14:19
    Port Index: 87
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015800;
3;21:00:00:24:ff:30:1c:a1;20:00:00:24:ff:30:1c:a1;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data59"
    Fabric Port Name: 20:58:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:a1
    Port Index: 88
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015900;
3;21:00:00:24:ff:20:07:77;20:00:00:24:ff:20:07:77;
```

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na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data66"
    Fabric Port Name: 20:59:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:07:77
    Port Index: 89
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015b00;
3;10:00:00:00:c9:94:99:45;20:00:00:00:c9:94:99:45;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db27"
    Fabric Port Name: 20:5b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:45
    Port Index: 91
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015c00;
3;10:00:00:00:c9:94:ae:f5;20:00:00:00:c9:94:ae:f5;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db4"
    Fabric Port Name: 20:5c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:f5
    Port Index: 92
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015d00;
3;10:00:00:00:c9:94:af:59;20:00:00:00:c9:94:af:59;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db21"
    Fabric Port Name: 20:5d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:59
    Port Index: 93
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    015e00;
3;10:00:00:00:c9:94:9d:65;20:00:00:00:c9:94:9d:65;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db14"
    Fabric Port Name: 20:5e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:65
    Port Index: 94
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016000;
3;21:00:00:24:ff:2f:d2:6b;20:00:00:24:ff:2f:d2:6b;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "data2"
    Fabric Port Name: 20:60:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:6b
    Port Index: 96
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016100;
3;21:00:00:24:ff:20:74:3b;20:00:00:24:ff:20:74:3b;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "data9"
    Fabric Port Name: 20:61:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:3b
    Port Index: 97
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016200;
3;21:00:00:24:ff:20:7d:57;20:00:00:24:ff:20:7d:57;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data16"
    Fabric Port Name: 20:62:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7d:57
    Port Index: 98
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016300;
3;21:00:00:24:ff:20:74:53;20:00:00:24:ff:20:74:53;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data23"
    Fabric Port Name: 20:63:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:53
    Port Index: 99
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016400;
3;21:01:00:1b:32:b2:12:1a;20:01:00:1b:32:b2:12:1a;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data30"
    Fabric Port Name: 20:64:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:12:1a
    Port Index: 100
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016500;
3;21:01:00:1b:32:b2:68:19;20:01:00:1b:32:b2:68:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data37"
    Fabric Port Name: 20:65:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:68:19
    Port Index: 101
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016600;
3;21:00:00:24:ff:2f:d1:fc;20:00:00:24:ff:2f:d1:fc;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data44"
    Fabric Port Name: 20:66:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:fc
    Port Index: 102
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016700;
3;21:01:00:1b:32:b2:21:18;20:01:00:1b:32:b2:21:18;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data51"
    Fabric Port Name: 20:67:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:21:18
    Port Index: 103
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016800;
3;21:00:00:24:ff:30:3b:45;20:00:00:24:ff:30:3b:45;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data58"
    Fabric Port Name: 20:68:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:3b:45
    Port Index: 104
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016900;
3;21:00:00:24:ff:20:6a:b9;20:00:00:24:ff:20:6a:b9;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data65"
    Fabric Port Name: 20:69:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:6a:b9
    Port Index: 105
    Share Area: No
    Device Shared in Other AD: No
```

```
    Redirect: No
 N    016b00;
3;10:00:00:00:c9:94:9d:21;20:00:00:00:c9:94:9d:21;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db26"
    Fabric Port Name: 20:6b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:21
    Port Index: 107
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016c00;
3;10:00:00:00:c9:94:99:e5;20:00:00:00:c9:94:99:e5;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db3"
    Fabric Port Name: 20:6c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:e5
    Port Index: 108
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016d00;
3;10:00:00:00:c9:94:ae:d9;20:00:00:00:c9:94:ae:d9;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db20"
    Fabric Port Name: 20:6d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:d9
    Port Index: 109
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    016e00;
3;10:00:00:00:c9:94:9b:e1;20:00:00:00:c9:94:9b:e1;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db13"
    Fabric Port Name: 20:6e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:e1
    Port Index: 110
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017000;
3;21:01:00:1b:32:b2:7c:19;20:01:00:1b:32:b2:7c:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "data1"
    Fabric Port Name: 20:70:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:7c:19
    Port Index: 112
    Share Area: No
```

```
    Device Shared in Other AD: No
    Redirect: No
 N    017100;
3;21:00:00:24:ff:20:7d:b5;20:00:00:24:ff:20:7d:b5;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "data8"
    Fabric Port Name: 20:71:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7d:b5
    Port Index: 113
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017200;
3;21:00:00:24:ff:2f:d2:c9;20:00:00:24:ff:2f:d2:c9;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data15"
    Fabric Port Name: 20:72:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:c9
    Port Index: 114
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017300;
3;21:00:00:24:ff:2f:d1:f5;20:00:00:24:ff:2f:d1:f5;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data22"
    Fabric Port Name: 20:73:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f5
    Port Index: 115
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017400;
3;21:00:00:24:ff:30:1c:53;20:00:00:24:ff:30:1c:53;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data29"
    Fabric Port Name: 20:74:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:53
    Port Index: 116
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017500;
3;21:01:00:1b:32:b2:57:18;20:01:00:1b:32:b2:57:18;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data36"
    Fabric Port Name: 20:75:00:05:1e:ec:50:00
    Permanent Port Name: 21:01:00:1b:32:b2:57:18
    Port Index: 117
```

```
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017600;
3;21:00:00:24:ff:30:1c:4f;20:00:00:24:ff:30:1c:4f;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data43"
    Fabric Port Name: 20:76:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:4f
    Port Index: 118
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017700;
3;21:00:00:24:ff:20:74:47;20:00:00:24:ff:20:74:47;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data50"
    Fabric Port Name: 20:77:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:47
    Port Index: 119
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017800;
3;21:00:00:24:ff:30:1c:e1;20:00:00:24:ff:30:1c:e1;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data57"
    Fabric Port Name: 20:78:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:e1
    Port Index: 120
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017900;
3;21:00:00:24:ff:20:6a:c1;20:00:00:24:ff:20:6a:c1;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data64"
    Fabric Port Name: 20:79:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:6a:c1
    Port Index: 121
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017b00;
3;10:00:00:00:c9:94:9c:1d;20:00:00:00:c9:94:9c:1d;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db25"
    Fabric Port Name: 20:7b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:1d
```

```
    Port Index: 123
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017c00;
3;10:00:00:00:c9:94:9d:41;20:00:00:00:c9:94:9d:41;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db2"
    Fabric Port Name: 20:7c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:41
    Port Index: 124
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017d00;
3;10:00:00:00:c9:94:af:11;20:00:00:00:c9:94:af:11;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db19"
    Fabric Port Name: 20:7d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:11
    Port Index: 125
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    017e00;
3;10:00:00:00:c9:94:99:1d;20:00:00:00:c9:94:99:1d;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db12"
    Fabric Port Name: 20:7e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:1d
    Port Index: 126
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    019140;
3;10:00:00:00:c9:94:99:cd;20:00:00:00:c9:94:99:cd;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:91:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:cd
    Port Index: 145
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    0191c0;
3;10:00:00:00:c9:94:99:cc;20:00:00:00:c9:94:99:cc;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:19:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:cc
    Port Index: 281
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019240;
3;10:00:00:00:c9:94:99:29;20:00:00:00:c9:94:99:29;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db21"
    Fabric Port Name: 20:92:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:29
    Port Index: 146
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    0192c0;
3;10:00:00:00:c9:94:99:28;20:00:00:00:c9:94:99:28;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db21"
    Fabric Port Name: 2e:1a:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:28
    Port Index: 282
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019340;
3;10:00:00:00:c9:94:9d:59;20:00:00:00:c9:94:9d:59;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:93:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:59
    Port Index: 147
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    0193c0;
3;10:00:00:00:c9:94:9d:58;20:00:00:00:c9:94:9d:58;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:1b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:58
    Port Index: 283
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019440;
3;10:00:00:00:c9:94:99:11;20:00:00:00:c9:94:99:11;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db14"
    Fabric Port Name: 20:94:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:11
    Port Index: 148
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    0194c0;
3;10:00:00:00:c9:94:99:10;20:00:00:00:c9:94:99:10;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db14"
    Fabric Port Name: 2e:1c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:10
    Port Index: 284
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019540;
3;10:00:00:00:c9:94:9a:91;20:00:00:00:c9:94:9a:91;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:95:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:91
    Port Index: 149
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    0195c0;
3;10:00:00:00:c9:94:9a:90;20:00:00:00:c9:94:9a:90;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:1d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:90
    Port Index: 285
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019640;
3;10:00:00:00:c9:94:9a:bd;20:00:00:00:c9:94:9a:bd;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db7"
    Fabric Port Name: 20:96:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:bd
    Port Index: 150
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    0196c0;
3;10:00:00:00:c9:94:9a:bc;20:00:00:00:c9:94:9a:bc;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
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```
DVpr11 db7"
    Fabric Port Name: 2e:1e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:bc
    Port Index: 286
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019740;
3;10:00:00:00:c9:94:9b:19;20:00:00:00:c9:94:9b:19;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:97:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:19
    Port Index: 151
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    0197c0;
3;10:00:00:00:c9:94:9b:18;20:00:00:00:c9:94:9b:18;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:1f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:18
    Port Index: 287
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019840;
3;21:00:00:1b:32:92:86:19;20:00:00:1b:32:92:86:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "data7"
    Fabric Port Name: 20:98:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:86:19
    Port Index: 152
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    0198c0;
3;21:00:00:1b:32:92:fe:19;20:00:00:1b:32:92:fe:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data63"
    Fabric Port Name: 2e:10:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:fe:19
    Port Index: 272
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019940;
3;21:00:00:24:ff:2f:d1:f0;20:00:00:24:ff:2f:d1:f0;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data14"
    Fabric Port Name: 20:99:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f0
    Port Index: 153
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019a40;
3;21:00:00:24:ff:20:74:34;20:00:00:24:ff:20:74:34;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data21"
    Fabric Port Name: 20:9a:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:34
    Port Index: 154
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019b40;
3;21:00:00:24:ff:2f:d1:f2;20:00:00:24:ff:2f:d1:f2;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data28"
    Fabric Port Name: 20:9b:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f2
    Port Index: 155
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019c40;
3;21:00:00:24:ff:2f:d2:76;20:00:00:24:ff:2f:d2:76;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data35"
    Fabric Port Name: 20:9c:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:76
    Port Index: 156
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019cc0;
3;10:00:00:00:c9:94:af:e8;20:00:00:00:c9:94:af:e8;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db8"
    Fabric Port Name: 2e:14:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:e8
    Port Index: 276
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019d40;
3;21:00:00:1b:32:92:78:19;20:00:00:1b:32:92:78:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data42"
    Fabric Port Name: 20:9d:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:78:19
    Port Index: 157
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019dc0;
3;10:00:00:00:c9:94:99:20;20:00:00:00:c9:94:99:20;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db1"
    Fabric Port Name: 2e:15:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:20
    Port Index: 277
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019e40;
3;21:00:00:1b:32:92:07:1a;20:00:00:1b:32:92:07:1a;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data49"
    Fabric Port Name: 20:9e:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:07:1a
    Port Index: 158
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019ec0;
3;10:00:00:00:c9:94:af:28;20:00:00:00:c9:94:af:28;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db18"
    Fabric Port Name: 2e:16:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:28
    Port Index: 278
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019f40;
3;21:00:00:24:ff:30:3b:40;20:00:00:24:ff:30:3b:40;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data56"
    Fabric Port Name: 20:9f:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:3b:40
    Port Index: 159
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    019fc0;
3;10:00:00:00:c9:94:99:68;20:00:00:00:c9:94:99:68;
```

```
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db11"
    Fabric Port Name: 2e:17:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:68
    Port Index: 279
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a140;
3;10:00:00:00:c9:94:9b:59;20:00:00:00:c9:94:9b:59;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db24"
    Fabric Port Name: 20:a1:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:59
    Port Index: 161
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a1c0;
3;10:00:00:00:c9:94:9b:58;20:00:00:00:c9:94:9b:58;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db24"
    Fabric Port Name: 2e:29:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:58
    Port Index: 297
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a240;
3;10:00:00:00:c9:94:9b:21;20:00:00:00:c9:94:9b:21;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:a2:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:21
    Port Index: 162
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a2c0;
3;10:00:00:00:c9:94:9b:20;20:00:00:00:c9:94:9b:20;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:2a:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:20
    Port Index: 298
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a340;
3;10:00:00:00:c9:94:99:51;20:00:00:00:c9:94:99:51;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db17"
    Fabric Port Name: 20:a3:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:51
    Port Index: 163
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a3c0;
3;10:00:00:00:c9:94:99:50;20:00:00:00:c9:94:99:50;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db17"
    Fabric Port Name: 2e:2b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:50
    Port Index: 299
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a440;
3;10:00:00:00:c9:94:99:15;20:00:00:00:c9:94:99:15;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:a4:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:15
    Port Index: 164
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a4c0;
3;10:00:00:00:c9:94:99:14;20:00:00:00:c9:94:99:14;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:2c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:14
    Port Index: 300
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a540;
3;10:00:00:00:c9:94:99:09;20:00:00:00:c9:94:99:09;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db10"
    Fabric Port Name: 20:a5:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:09
    Port Index: 165
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a5c0;
3;10:00:00:00:c9:94:99:08;20:00:00:00:c9:94:99:08;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db10"
    Fabric Port Name: 2e:2d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:08
    Port Index: 301
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a640;
3;10:00:00:00:c9:94:99:ed;20:00:00:00:c9:94:99:ed;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:a6:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:ed
    Port Index: 166
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a6c0;
3;10:00:00:00:c9:94:99:ec;20:00:00:00:c9:94:99:ec;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:2e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:ec
    Port Index: 302
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a740;
3;10:00:00:00:c9:94:9d:a5;20:00:00:00:c9:94:9d:a5;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db3"
    Fabric Port Name: 20:a7:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:a5
    Port Index: 167
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a7c0;
3;10:00:00:00:c9:94:9d:a4;20:00:00:00:c9:94:9d:a4;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db3"
    Fabric Port Name: 2e:2f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:a4
    Port Index: 303
    Share Area: Yes
    Device Shared in Other AD: No
```

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    Redirect: No
 N    01a840;
3;21:00:00:1b:32:9b:13:6b;20:00:00:1b:32:9b:13:6b;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "data6"
    Fabric Port Name: 20:a8:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:9b:13:6b
    Port Index: 168
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a8c0;
3;21:00:00:24:ff:30:3c:84;20:00:00:24:ff:30:3c:84;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data62"
    Fabric Port Name: 2e:20:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:3c:84
    Port Index: 288
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a940;
3;21:00:00:24:ff:2f:d2:6f;20:00:00:24:ff:2f:d2:6f;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data13"
    Fabric Port Name: 20:a9:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:6f
    Port Index: 169
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01a9c0;
3;21:00:00:24:ff:30:1b:80;20:00:00:24:ff:30:1b:80;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data69"
    Fabric Port Name: 2e:21:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1b:80
    Port Index: 289
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01aa40;
3;21:00:00:24:ff:2f:d1:ef;20:00:00:24:ff:2f:d1:ef;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data20"
    Fabric Port Name: 20:aa:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:ef
    Port Index: 170
    Share Area: Yes
```

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    Device Shared in Other AD: No
    Redirect: No
 N    01ab40;
3;21:00:00:24:ff:20:7c:e4;20:00:00:24:ff:20:7c:e4;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data27"
    Fabric Port Name: 20:ab:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7c:e4
    Port Index: 171
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ac40;
3;21:00:00:24:ff:2f:d2:78;20:00:00:24:ff:2f:d2:78;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data34"
    Fabric Port Name: 20:ac:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:78
    Port Index: 172
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ad40;
3;21:00:00:24:ff:30:3b:22;20:00:00:24:ff:30:3b:22;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data41"
    Fabric Port Name: 20:ad:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:3b:22
    Port Index: 173
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01adc0;
3;10:00:00:00:c9:94:ae:88;20:00:00:00:c9:94:ae:88;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db24"
    Fabric Port Name: 2e:25:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:88
    Port Index: 293
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ae40;
3;21:00:00:1b:32:92:22:18;20:00:00:1b:32:92:22:18;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data48"
    Fabric Port Name: 20:ae:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:22:18
    Port Index: 174
```

```
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01aec0;
3;10:00:00:00:c9:94:9b:ec;20:00:00:00:c9:94:9b:ec;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db17"
    Fabric Port Name: 2e:26:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:ec
    Port Index: 294
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01af40;
3;21:00:00:24:ff:30:1c:5c;20:00:00:24:ff:30:1c:5c;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data55"
    Fabric Port Name: 20:af:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:5c
    Port Index: 175
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01afc0;
3;10:00:00:00:c9:94:9d:00;20:00:00:00:c9:94:9d:00;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db10"
    Fabric Port Name: 2e:27:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:00
    Port Index: 295
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b040;
3;10:00:00:00:c9:94:9a:21;20:00:00:00:c9:94:9a:21;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db27"
    Fabric Port Name: 20:b0:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:21
    Port Index: 176
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b0c0;
3;10:00:00:00:c9:94:9a:20;20:00:00:00:c9:94:9a:20;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db27"
    Fabric Port Name: 2e:38:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:20
```

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    Port Index: 312
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b140;
3;10:00:00:00:c9:94:9d:85;20:00:00:00:c9:94:9d:85;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:b1:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:85
    Port Index: 177
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b1c0;
3;10:00:00:00:c9:94:9d:84;20:00:00:00:c9:94:9d:84;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:39:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:84
    Port Index: 313
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b240;
3;10:00:00:00:c9:94:9a:f1;20:00:00:00:c9:94:9a:f1;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db20"
    Fabric Port Name: 20:b2:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:f1
    Port Index: 178
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b2c0;
3;10:00:00:00:c9:94:9a:f0;20:00:00:00:c9:94:9a:f0;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db20"
    Fabric Port Name: 2e:3a:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:f0
    Port Index: 314
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b340;
3;10:00:00:00:c9:94:9d:9d;20:00:00:00:c9:94:9d:9d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:b3:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:9d
    Port Index: 179
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b3c0;
3;10:00:00:00:c9:94:9d:9c;20:00:00:00:c9:94:9d:9c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:3b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:9c
    Port Index: 315
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b440;
3;10:00:00:00:c9:94:99:35;20:00:00:00:c9:94:99:35;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db13"
    Fabric Port Name: 20:b4:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:35
    Port Index: 180
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b4c0;
3;10:00:00:00:c9:94:99:34;20:00:00:00:c9:94:99:34;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db13"
    Fabric Port Name: 2e:3c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:34
    Port Index: 316
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b540;
3;10:00:00:00:c9:94:99:c9;20:00:00:00:c9:94:99:c9;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:b5:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:c9
    Port Index: 181
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b5c0;
3;10:00:00:00:c9:94:99:c8;20:00:00:00:c9:94:99:c8;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:3d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:c8
    Port Index: 317
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b640;
3;10:00:00:00:c9:94:9b:4d;20:00:00:00:c9:94:9b:4d;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db6"
    Fabric Port Name: 20:b6:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:4d
    Port Index: 182
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b6c0;
3;10:00:00:00:c9:94:9b:4c;20:00:00:00:c9:94:9b:4c;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db6"
    Fabric Port Name: 2e:3e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:4c
    Port Index: 318
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b740;
3;10:00:00:00:c9:94:9b:7d;20:00:00:00:c9:94:9b:7d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:b7:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:7d
    Port Index: 183
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b7c0;
3;10:00:00:00:c9:94:9b:7c;20:00:00:00:c9:94:9b:7c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:3f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:7c
    Port Index: 319
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b840;
3;21:00:00:24:ff:2f:d3:26;20:00:00:24:ff:2f:d3:26;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
```

```
    NodeSymb: [5] "data5"
    Fabric Port Name: 20:b8:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d3:26
    Port Index: 184
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b8c0;
3;21:00:00:24:ff:30:1c:d6;20:00:00:24:ff:30:1c:d6;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data61"
    Fabric Port Name: 2e:30:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:d6
    Port Index: 304
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b940;
3;21:00:00:24:ff:2f:d2:c5;20:00:00:24:ff:2f:d2:c5;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data12"
    Fabric Port Name: 20:b9:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:c5
    Port Index: 185
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01b9c0;
3;21:00:00:1b:32:92:bb:19;20:00:00:1b:32:92:bb:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data68"
    Fabric Port Name: 2e:31:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:bb:19
    Port Index: 305
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ba40;
3;21:00:00:24:ff:2f:d2:01;20:00:00:24:ff:2f:d2:01;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data19"
    Fabric Port Name: 20:ba:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:01
    Port Index: 186
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01bb40;
3;21:00:00:24:ff:20:74:4c;20:00:00:24:ff:20:74:4c;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data26"
    Fabric Port Name: 20:bb:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:4c
    Port Index: 187
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01bc40;
3;21:00:00:24:ff:20:75:5c;20:00:00:24:ff:20:75:5c;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data33"
    Fabric Port Name: 20:bc:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:75:5c
    Port Index: 188
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01bcc0;
3;10:00:00:00:c9:94:ae:50;20:00:00:00:c9:94:ae:50;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db6"
    Fabric Port Name: 2e:34:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:50
    Port Index: 308
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01bd40;
3;21:00:00:1b:32:92:f0:19;20:00:00:1b:32:92:f0:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data40"
    Fabric Port Name: 20:bd:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:f0:19
    Port Index: 189
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01bdc0;
3;10:00:00:00:c9:94:ae:e0;20:00:00:00:c9:94:ae:e0;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db23"
    Fabric Port Name: 2e:35:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:e0
    Port Index: 309
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01be40;
3;21:00:00:1b:32:92:c2:19;20:00:00:1b:32:92:c2:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data47"
    Fabric Port Name: 20:be:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:c2:19
    Port Index: 190
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01bec0;
3;10:00:00:00:c9:94:99:9c;20:00:00:00:c9:94:99:9c;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db16"
    Fabric Port Name: 2e:36:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:9c
    Port Index: 310
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01bf40;
3;21:00:00:24:ff:30:1b:7e;20:00:00:24:ff:30:1b:7e;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data54"
    Fabric Port Name: 20:bf:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1b:7e
    Port Index: 191
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01bfc0;
3;10:00:00:00:c9:94:9a:c0;20:00:00:00:c9:94:9a:c0;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db9"
    Fabric Port Name: 2e:37:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:c0
    Port Index: 311
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c040;
3;10:00:00:00:c9:94:9c:45;20:00:00:00:c9:94:9c:45;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:c0:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:45
    Port Index: 192
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c0c0;
3;10:00:00:00:c9:94:9c:44;20:00:00:00:c9:94:9c:44;
```

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na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:48:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:44
    Port Index: 328
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c140;
3;10:00:00:00:c9:94:9a:29;20:00:00:00:c9:94:9a:29;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db23"
    Fabric Port Name: 20:c1:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:29
    Port Index: 193
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c1c0;
3;10:00:00:00:c9:94:9a:28;20:00:00:00:c9:94:9a:28;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db23"
    Fabric Port Name: 2e:49:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:28
    Port Index: 329
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c240;
3;10:00:00:00:c9:94:9d:4d;20:00:00:00:c9:94:9d:4d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:c2:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:4d
    Port Index: 194
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c2c0;
3;10:00:00:00:c9:94:9d:4c;20:00:00:00:c9:94:9d:4c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:4a:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:4c
    Port Index: 330
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c340;
3;10:00:00:00:c9:94:99:fd;20:00:00:00:c9:94:99:fd;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db16"
    Fabric Port Name: 20:c3:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:fd
    Port Index: 195
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c3c0;
3;10:00:00:00:c9:94:99:fc;20:00:00:00:c9:94:99:fc;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db16"
    Fabric Port Name: 2e:4b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:fc
    Port Index: 331
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c440;
3;10:00:00:00:c9:94:9a:2d;20:00:00:00:c9:94:9a:2d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:c4:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:2d
    Port Index: 196
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c4c0;
3;10:00:00:00:c9:94:9a:2c;20:00:00:00:c9:94:9a:2c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:4c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:2c
    Port Index: 332
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c540;
3;10:00:00:00:c9:94:af:2d;20:00:00:00:c9:94:af:2d;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db9"
    Fabric Port Name: 20:c5:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:2d
    Port Index: 197
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c5c0;
3;10:00:00:00:c9:94:af:2c;20:00:00:00:c9:94:af:2c;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db9"
    Fabric Port Name: 2e:4d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:2c
    Port Index: 333
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c640;
3;10:00:00:00:c9:94:90:6d;20:00:00:00:c9:94:90:6d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:c6:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:90:6d
    Port Index: 198
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c6c0;
3;10:00:00:00:c9:94:90:6c;20:00:00:00:c9:94:90:6c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:4e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:90:6c
    Port Index: 334
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c740;
3;10:00:00:00:c9:94:9b:25;20:00:00:00:c9:94:9b:25;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db2"
    Fabric Port Name: 20:c7:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:25
    Port Index: 199
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c7c0;
3;10:00:00:00:c9:94:9b:24;20:00:00:00:c9:94:9b:24;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:4f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:24
    Port Index: 335
    Share Area: Yes
    Device Shared in Other AD: No
```

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    Redirect: No
 N    01c840;
3;21:00:00:24:ff:2f:d3:1e;20:00:00:24:ff:2f:d3:1e;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "data4"
    Fabric Port Name: 20:c8:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d3:1e
    Port Index: 200
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c8c0;
3;21:00:00:24:ff:30:1c:48;20:00:00:24:ff:30:1c:48;
na
    FC4s: FCP
    Fabric Port Name: 2e:40:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:48
    Port Index: 320
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c940;
3;21:00:00:24:ff:20:7d:cc;20:00:00:24:ff:20:7d:cc;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data11"
    Fabric Port Name: 20:c9:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7d:cc
    Port Index: 201
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01c9c0;
3;21:00:00:24:ff:30:1b:ac;20:00:00:24:ff:30:1b:ac;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data67"
    Fabric Port Name: 2e:41:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1b:ac
    Port Index: 321
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ca40;
3;21:00:00:24:ff:2f:d2:96;20:00:00:24:ff:2f:d2:96;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data18"
    Fabric Port Name: 20:ca:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:96
    Port Index: 202
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01cac0;
3;10:00:00:00:c9:94:99:b0;20:00:00:00:c9:94:99:b0;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db7"
    Fabric Port Name: 2e:42:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:b0
    Port Index: 322
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01cb40;
3;21:00:00:24:ff:20:7d:d0;20:00:00:24:ff:20:7d:d0;
na
    FC4s: FCP
    Fabric Port Name: 20:cb:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7d:d0
    Port Index: 203
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01cc40;
3;21:00:00:24:ff:2f:d1:dc;20:00:00:24:ff:2f:d1:dc;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data32"
    Fabric Port Name: 20:cc:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:dc
    Port Index: 204
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ccc0;
3;10:00:00:00:c9:94:af:dc;20:00:00:00:c9:94:af:dc;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db5"
    Fabric Port Name: 2e:44:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:dc
    Port Index: 324
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01cd40;
3;21:00:00:1b:32:92:2d:1a;20:00:00:1b:32:92:2d:1a;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data39"
    Fabric Port Name: 20:cd:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:2d:1a
    Port Index: 205
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01cdc0;
3;10:00:00:00:c9:94:af:c8;20:00:00:00:c9:94:af:c8;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db22"
    Fabric Port Name: 2e:45:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:c8
    Port Index: 325
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ce40;
3;21:00:00:1b:32:92:13:19;20:00:00:1b:32:92:13:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data46"
    Fabric Port Name: 20:ce:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:13:19
    Port Index: 206
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01cec0;
3;10:00:00:00:c9:94:99:d8;20:00:00:00:c9:94:99:d8;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db15"
    Fabric Port Name: 2e:46:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:d8
    Port Index: 326
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01cf40;
3;21:00:00:24:ff:30:1c:aa;20:00:00:24:ff:30:1c:aa;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data53"
    Fabric Port Name: 20:cf:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:aa
    Port Index: 207
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d040;
3;10:00:00:00:c9:94:9c:e1;20:00:00:00:c9:94:9c:e1;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db26"
    Fabric Port Name: 20:d0:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:e1
    Port Index: 208
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
```

```
 N    01d0c0;
3;10:00:00:00:c9:94:9c:e0;20:00:00:00:c9:94:9c:e0;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db26"
    Fabric Port Name: 2e:58:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:e0
    Port Index: 344
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d140;
3;10:00:00:00:c9:94:90:e5;20:00:00:00:c9:94:90:e5;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:d1:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:90:e5
    Port Index: 209
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d1c0;
3;10:00:00:00:c9:94:90:e4;20:00:00:00:c9:94:90:e4;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:59:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:90:e4
    Port Index: 345
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d240;
3;10:00:00:00:c9:94:99:b5;20:00:00:00:c9:94:99:b5;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db19"
    Fabric Port Name: 20:d2:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:b5
    Port Index: 210
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d2c0;
3;10:00:00:00:c9:94:99:b4;20:00:00:00:c9:94:99:b4;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db19"
    Fabric Port Name: 2e:5a:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:b4
    Port Index: 346
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d340;
3;10:00:00:00:c9:94:9c:25;20:00:00:00:c9:94:9c:25;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db16"
    Fabric Port Name: 20:d3:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:25
    Port Index: 211
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d3c0;
3;10:00:00:00:c9:94:9c:24;20:00:00:00:c9:94:9c:24;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:5b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:24
    Port Index: 347
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d440;
3;10:00:00:00:c9:94:90:cd;20:00:00:00:c9:94:90:cd;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db12"
    Fabric Port Name: 20:d4:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:90:cd
    Port Index: 212
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d4c0;
3;10:00:00:00:c9:94:90:cc;20:00:00:00:c9:94:90:cc;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db12"
    Fabric Port Name: 2e:5c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:90:cc
    Port Index: 348
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d540;
3;10:00:00:00:c9:94:9c:f9;20:00:00:00:c9:94:9c:f9;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:d5:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:f9
    Port Index: 213
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d5c0;
3;10:00:00:00:c9:94:9c:f8;20:00:00:00:c9:94:9c:f8;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:5d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:f8
    Port Index: 349
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d640;
3;10:00:00:00:c9:94:99:2d;20:00:00:00:c9:94:99:2d;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db5"
    Fabric Port Name: 20:d6:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:2d
    Port Index: 214
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d6c0;
3;10:00:00:00:c9:94:99:2c;20:00:00:00:c9:94:99:2c;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db5"
    Fabric Port Name: 2e:5e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:2c
    Port Index: 350
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d740;
3;10:00:00:00:c9:94:91:0d;20:00:00:00:c9:94:91:0d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:d7:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:91:0d
    Port Index: 215
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d7c0;
3;10:00:00:00:c9:94:91:0c;20:00:00:00:c9:94:91:0c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:5f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:91:0c
    Port Index: 351
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    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d840;
3;21:00:00:24:ff:2f:d2:52;20:00:00:24:ff:2f:d2:52;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "data3"
    Fabric Port Name: 20:d8:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:52
    Port Index: 216
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d8c0;
3;21:00:00:24:ff:30:1c:a0;20:00:00:24:ff:30:1c:a0;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data59"
    Fabric Port Name: 2e:50:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:a0
    Port Index: 336
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d940;
3;21:00:00:24:ff:2f:d2:ca;20:00:00:24:ff:2f:d2:ca;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data10"
    Fabric Port Name: 20:d9:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:ca
    Port Index: 217
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01d9c0;
3;21:00:00:24:ff:20:07:76;20:00:00:24:ff:20:07:76;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data66"
    Fabric Port Name: 2e:51:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:07:76
    Port Index: 337
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01da40;
3;21:00:00:24:ff:2f:d1:f6;20:00:00:24:ff:2f:d1:f6;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data17"
    Fabric Port Name: 20:da:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f6
    Port Index: 218
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01db40;
3;21:00:00:24:ff:2f:d2:e4;20:00:00:24:ff:2f:d2:e4;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data24"
    Fabric Port Name: 20:db:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:e4
    Port Index: 219
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01dbc0;
3;10:00:00:00:c9:94:99:44;20:00:00:00:c9:94:99:44;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db27"
    Fabric Port Name: 2e:53:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:44
    Port Index: 339
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01dc40;
3;21:00:00:24:ff:20:74:30;20:00:00:24:ff:20:74:30;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data31"
    Fabric Port Name: 20:dc:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:30
    Port Index: 220
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01dcc0;
3;10:00:00:00:c9:94:ae:f4;20:00:00:00:c9:94:ae:f4;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db4"
    Fabric Port Name: 2e:54:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:f4
    Port Index: 340
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01dd40;
3;21:00:00:1b:32:92:41:18;20:00:00:1b:32:92:41:18;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data38"
    Fabric Port Name: 20:dd:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:41:18
    Port Index: 221
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ddc0;
3;10:00:00:00:c9:94:af:58;20:00:00:00:c9:94:af:58;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db21"
    Fabric Port Name: 2e:55:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:58
    Port Index: 341
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01de40;
3;21:00:00:1b:32:92:8f:19;20:00:00:1b:32:92:8f:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data45"
    Fabric Port Name: 20:de:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:8f:19
    Port Index: 222
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01dec0;
3;10:00:00:00:c9:94:9d:64;20:00:00:00:c9:94:9d:64;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db14"
    Fabric Port Name: 2e:56:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:64
    Port Index: 342
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01df40;
3;21:00:00:1b:32:92:14:19;20:00:00:1b:32:92:14:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data52"
    Fabric Port Name: 20:df:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:14:19
    Port Index: 223
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e040;
3;10:00:00:00:c9:94:9d:2d;20:00:00:00:c9:94:9d:2d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
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    Fabric Port Name: 20:e0:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:2d
    Port Index: 224
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e0c0;
3;10:00:00:00:c9:94:9d:2c;20:00:00:00:c9:94:9d:2c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:68:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:2c
    Port Index: 360
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e140;
3;10:00:00:00:c9:94:9d:35;20:00:00:00:c9:94:9d:35;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db22"
    Fabric Port Name: 20:e1:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:35
    Port Index: 225
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e1c0;
3;10:00:00:00:c9:94:9d:34;20:00:00:00:c9:94:9d:34;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db22"
    Fabric Port Name: 2e:69:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:34
    Port Index: 361
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e240;
3;10:00:00:00:c9:94:99:39;20:00:00:00:c9:94:99:39;
na
    FC4s: FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db19"
    Fabric Port Name: 20:e2:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:39
    Port Index: 226
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e2c0;
3;10:00:00:00:c9:94:99:38;20:00:00:00:c9:94:99:38;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:6a:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:38
    Port Index: 362
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e340;
3;10:00:00:00:c9:94:99:f9;20:00:00:00:c9:94:99:f9;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db15"
    Fabric Port Name: 20:e3:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:f9
    Port Index: 227
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e3c0;
3;10:00:00:00:c9:94:99:f8;20:00:00:00:c9:94:99:f8;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db15"
    Fabric Port Name: 2e:6b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:f8
    Port Index: 363
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e440;
3;10:00:00:00:c9:94:90:9d;20:00:00:00:c9:94:90:9d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:e4:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:90:9d
    Port Index: 228
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e4c0;
3;10:00:00:00:c9:94:90:9c;20:00:00:00:c9:94:90:9c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:6c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:90:9c
    Port Index: 364
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e540;
3;10:00:00:00:c9:94:9a:01;20:00:00:00:c9:94:9a:01;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db8"
    Fabric Port Name: 20:e5:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:01
    Port Index: 229
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e5c0;
3;10:00:00:00:c9:94:9a:00;20:00:00:00:c9:94:9a:00;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db8"
    Fabric Port Name: 2e:6d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:00
    Port Index: 365
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e640;
3;10:00:00:00:c9:94:91:15;20:00:00:00:c9:94:91:15;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:e6:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:91:15
    Port Index: 230
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e6c0;
3;10:00:00:00:c9:94:9b:30;20:00:00:00:c9:94:9b:30;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:6e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:30
    Port Index: 366
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e740;
3;10:00:00:00:c9:94:9a:89;20:00:00:00:c9:94:9a:89;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db1"
    Fabric Port Name: 20:e7:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:89
    Port Index: 231
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e7c0;
3;10:00:00:00:c9:94:9a:88;20:00:00:00:c9:94:9a:88;
na
```

```
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db1"
    Fabric Port Name: 2e:6f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:88
    Port Index: 367
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e840;
3;21:00:00:24:ff:2f:d2:6a;20:00:00:24:ff:2f:d2:6a;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "data2"
    Fabric Port Name: 20:e8:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:6a
    Port Index: 232
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e8c0;
3;21:00:00:24:ff:30:3b:44;20:00:00:24:ff:30:3b:44;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data58"
    Fabric Port Name: 2e:60:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:3b:44
    Port Index: 352
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e940;
3;21:00:00:24:ff:20:74:3a;20:00:00:24:ff:20:74:3a;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "data9"
    Fabric Port Name: 20:e9:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:3a
    Port Index: 233
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01e9c0;
3;21:00:00:24:ff:20:6a:b8;20:00:00:24:ff:20:6a:b8;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data65"
    Fabric Port Name: 2e:61:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:6a:b8
    Port Index: 353
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ea40;
3;21:00:00:24:ff:20:7d:56;20:00:00:24:ff:20:7d:56;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data16"
    Fabric Port Name: 20:ea:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7d:56
    Port Index: 234
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01eb40;
3;21:00:00:24:ff:20:74:52;20:00:00:24:ff:20:74:52;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data23"
    Fabric Port Name: 20:eb:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:52
    Port Index: 235
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ebc0;
3;10:00:00:00:c9:94:9d:20;20:00:00:00:c9:94:9d:20;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db26"
    Fabric Port Name: 2e:63:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:20
    Port Index: 355
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ec40;
3;21:00:00:1b:32:92:12:1a;20:00:00:1b:32:92:12:1a;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data30"
    Fabric Port Name: 20:ec:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:12:1a
    Port Index: 236
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ecc0;
3;10:00:00:00:c9:94:99:e4;20:00:00:00:c9:94:99:e4;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db3"
    Fabric Port Name: 2e:64:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:e4
    Port Index: 356
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ed40;
3;21:00:00:1b:32:92:68:19;20:00:00:1b:32:92:68:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data37"
    Fabric Port Name: 20:ed:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:68:19
    Port Index: 237
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01edc0;
3;10:00:00:00:c9:94:ae:d8;20:00:00:00:c9:94:ae:d8;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db20"
    Fabric Port Name: 2e:65:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:ae:d8
    Port Index: 357
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ee40;
3;21:00:00:24:ff:2f:d1:fd;20:00:00:24:ff:2f:d1:fd;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "data44"
    Fabric Port Name: 20:ee:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:fd
    Port Index: 238
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01eec0;
3;10:00:00:00:c9:94:9b:e0;20:00:00:00:c9:94:9b:e0;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db13"
    Fabric Port Name: 2e:66:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:e0
    Port Index: 358
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ef40;
3;21:00:00:1b:32:92:21:18;20:00:00:1b:32:92:21:18;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data51"
    Fabric Port Name: 20:ef:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:21:18
    Port Index: 239
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
```

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 N    01f040;
3;10:00:00:00:c9:94:99:f5;20:00:00:00:c9:94:99:f5;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db25"
    Fabric Port Name: 20:f0:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:f5
    Port Index: 240
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f0c0;
3;10:00:00:00:c9:94:99:f4;20:00:00:00:c9:94:99:f4;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db25"
    Fabric Port Name: 2e:78:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:f4
    Port Index: 376
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f140;
3;10:00:00:00:c9:94:99:bd;20:00:00:00:c9:94:99:bd;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:f1:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:bd
    Port Index: 241
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f1c0;
3;10:00:00:00:c9:94:99:bc;20:00:00:00:c9:94:99:bc;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:79:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:bc
    Port Index: 377
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f240;
3;10:00:00:00:c9:94:9a:45;20:00:00:00:c9:94:9a:45;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db18"
    Fabric Port Name: 20:f2:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:45
    Port Index: 242
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f2c0;
3;10:00:00:00:c9:94:9a:44;20:00:00:00:c9:94:9a:44;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db18"
    Fabric Port Name: 2e:7a:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:44
    Port Index: 378
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f340;
3;10:00:00:00:c9:94:9a:ed;20:00:00:00:c9:94:9a:ed;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:f3:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:ed
    Port Index: 243
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f3c0;
3;10:00:00:00:c9:94:9a:ec;20:00:00:00:c9:94:9a:ec;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:7b:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:ec
    Port Index: 379
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f440;
3;10:00:00:00:c9:94:99:f1;20:00:00:00:c9:94:99:f1;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db11"
    Fabric Port Name: 20:f4:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:f1
    Port Index: 244
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f4c0;
3;10:00:00:00:c9:94:99:f0;20:00:00:00:c9:94:99:f0;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db11"
    Fabric Port Name: 2e:7c:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:f0
    Port Index: 380
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f540;
3;10:00:00:00:c9:94:99:41;20:00:00:00:c9:94:99:41;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:f5:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:41
    Port Index: 245
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f5c0;
3;10:00:00:00:c9:94:99:40;20:00:00:00:c9:94:99:40;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:7d:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:40
    Port Index: 381
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f640;
3;10:00:00:00:c9:94:9a:6d;20:00:00:00:c9:94:9a:6d;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db4"
    Fabric Port Name: 20:f6:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:6d
    Port Index: 246
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f6c0;
3;10:00:00:00:c9:94:9a:6c;20:00:00:00:c9:94:9a:6c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:7e:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9a:6c
    Port Index: 382
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f740;
3;10:00:00:00:c9:94:9b:0d;20:00:00:00:c9:94:9b:0d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:f7:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:0d
    Port Index: 247
```

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    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f7c0;
3;10:00:00:00:c9:94:9b:0c;20:00:00:00:c9:94:9b:0c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 2e:7f:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9b:0c
    Port Index: 383
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f840;
3;21:00:00:1b:32:92:7c:19;20:00:00:1b:32:92:7c:19;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "data1"
    Fabric Port Name: 20:f8:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:7c:19
    Port Index: 248
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f8c0;
3;21:00:00:24:ff:30:1c:e0;20:00:00:24:ff:30:1c:e0;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data57"
    Fabric Port Name: 2e:70:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:e0
    Port Index: 368
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f940;
3;21:00:00:24:ff:20:7d:b4;20:00:00:24:ff:20:7d:b4;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "data8"
    Fabric Port Name: 20:f9:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:7d:b4
    Port Index: 249
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01f9c0;
3;21:00:00:24:ff:20:6a:c0;20:00:00:24:ff:20:6a:c0;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data64"
    Fabric Port Name: 2e:71:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:6a:c0
    Port Index: 369
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01fa40;
3;21:00:00:24:ff:2f:d2:c8;20:00:00:24:ff:2f:d2:c8;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data15"
    Fabric Port Name: 20:fa:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d2:c8
    Port Index: 250
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01fb40;
3;21:00:00:24:ff:2f:d1:f4;20:00:00:24:ff:2f:d1:f4;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data22"
    Fabric Port Name: 20:fb:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f4
    Port Index: 251
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01fbc0;
3;10:00:00:00:c9:94:9c:1c;20:00:00:00:c9:94:9c:1c;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db25"
    Fabric Port Name: 2e:73:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9c:1c
    Port Index: 371
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01fc40;
3;21:00:00:24:ff:30:1c:52;20:00:00:24:ff:30:1c:52;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data29"
    Fabric Port Name: 20:fc:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:52
    Port Index: 252
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01fcc0;
3;10:00:00:00:c9:94:9d:40;20:00:00:00:c9:94:9d:40;
na
    FC4s: IPFC FCP
    NodeSymb: [39] "Emulex LPem12002E-S FV1.11a5
DVpr11 db2"
    Fabric Port Name: 2e:74:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:9d:40
    Port Index: 372
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01fd40;
3;21:00:00:1b:32:92:57:18;20:00:00:1b:32:92:57:18;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data36"
    Fabric Port Name: 20:fd:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:1b:32:92:57:18
    Port Index: 253
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01fdc0;
3;10:00:00:00:c9:94:af:10;20:00:00:00:c9:94:af:10;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db19"
    Fabric Port Name: 2e:75:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:af:10
    Port Index: 373
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01fe40;
3;21:00:00:24:ff:30:1c:4e;20:00:00:24:ff:30:1c:4e;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data43"
    Fabric Port Name: 20:fe:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:30:1c:4e
    Port Index: 254
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01fec0;
3;10:00:00:00:c9:94:99:1c;20:00:00:00:c9:94:99:1c;
na
    FC4s: IPFC FCP
    NodeSymb: [40] "Emulex LPem12002E-S FV1.11a5
DVpr11 db12"
    Fabric Port Name: 2e:76:00:05:1e:ec:50:00
    Permanent Port Name: 10:00:00:00:c9:94:99:1c
    Port Index: 374
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
 N    01ff40;
3;21:00:00:24:ff:20:74:46;20:00:00:24:ff:20:74:46;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "data50"
```

```
    Fabric Port Name: 20:ff:00:05:1e:ec:50:00
    Permanent Port Name: 21:00:00:24:ff:20:74:46
    Port Index: 255
    Share Area: Yes
    Device Shared in Other AD: No
    Redirect: No
The Local Name Server has 300 entries }
```

Zoning Information

```
Defined configuration:
 cfg:   All_Ports
                All_ports
 cfg:   Four_node_1
                db28_data12thru13_4paul;
db29_data14_4daveV; FourNode_A;
                FourNode_B; FourNode_C; FourNode_E;
John_Henning
 zone:  All_ports
                1,16; 1,17; 1,18; 1,19; 1,20; 1,21;
1,22; 1,23; 1,24; 1,25;
                1,26; 1,27; 1,28; 1,29; 1,30; 1,31;
1,32; 1,33; 1,34; 1,35;
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1,42; 1,43; 1,44; 1,45;
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1,72; 1,73; 1,74; 1,75;
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1,82; 1,83; 1,84; 1,85;
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1,92; 1,93; 1,94; 1,95;
                1,96; 1,97; 1,98; 1,99; 1,100;
1,101; 1,102; 1,103; 1,104;
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1,110; 1,111; 1,112; 1,113;
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1,119; 1,120; 1,121; 1,122;
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1,144; 1,145; 1,146; 1,147;
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1,153; 1,154; 1,155; 1,156;
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1,216; 1,217; 1,218; 1,219;
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1,376; 1,377; 1,378; 1,379;
                1,380; 1,381; 1,382; 1,383
 zone:  FourNode_A
                1,16; 1,28; 1,32; 1,48; 1,60; 1,64;
1,65; 1,76; 1,81; 1,92;
                1,96; 1,97; 1,112; 1,113; 1,151;
1,152; 1,168; 1,182; 1,184;
                1,198; 1,200; 1,201; 1,214; 1,217;
1,229; 1,230; 1,232; 1,233;
                1,245; 1,246; 1,248; 1,249; 1,276;
1,287; 1,308; 1,318; 1,324;
                1,334; 1,340; 1,350; 1,365; 1,366;
1,381; 1,382
 zone:  FourNode_AE
                1,16; 1,23; 1,32; 1,39; 1,48; 1,55;
1,64; 1,65; 1,71; 1,72;
                1,81; 1,87; 1,88; 1,96; 1,97;
1,103; 1,104; 1,112; 1,113;
                1,120; 1,146; 1,151; 1,152; 1,159;
1,161; 1,162; 1,168; 1,175;
                1,177; 1,182; 1,184; 1,191; 1,193;
1,198; 1,200; 1,201; 1,207;
                1,209; 1,214; 1,217; 1,223; 1,225;
1,229; 1,230; 1,232; 1,233;
                1,239; 1,241; 1,245; 1,246; 1,248;
1,249; 1,282; 1,287; 1,297;
                1,298; 1,313; 1,318; 1,320; 1,329;
1,334; 1,336; 1,345; 1,350;
                1,352; 1,361; 1,365; 1,366; 1,368;
1,377; 1,381; 1,382
 zone:  FourNode_B
                1,18; 1,19; 1,31; 1,35; 1,47; 1,51;
1,63; 1,67; 1,83; 1,99;
                1,100; 1,115; 1,116; 1,126; 1,149;
1,154; 1,155; 1,165; 1,171;
                1,181; 1,187; 1,197; 1,203; 1,212;
1,213; 1,219; 1,228; 1,235;
                1,236; 1,244; 1,251; 1,252; 1,279;
1,285; 1,295; 1,301; 1,311;
                1,317; 1,333; 1,348; 1,349; 1,364;
1,374; 1,380
 zone:  FourNode_C
                1,20; 1,36; 1,52; 1,53; 1,62; 1,68;
1,69; 1,78; 1,84; 1,85;
                1,94; 1,101; 1,110; 1,117; 1,148;
1,156; 1,164; 1,172; 1,180;
                1,188; 1,189; 1,195; 1,196; 1,204;
1,205; 1,211; 1,220; 1,221;
                1,227; 1,237; 1,243; 1,253; 1,284;
1,300; 1,310; 1,316; 1,326;
                1,331; 1,332; 1,342; 1,347; 1,358;
1,363; 1,379
 zone:  FourNode_E
                1,23; 1,39; 1,45; 1,55; 1,61; 1,71;
1,72; 1,77; 1,87; 1,88;
                1,93; 1,103; 1,104; 1,120; 1,146;
1,159; 1,161; 1,162; 1,175;
                1,177; 1,191; 1,193; 1,207; 1,209;
1,223; 1,225; 1,239; 1,241;
                1,282; 1,293; 1,297; 1,298; 1,309;
1,313; 1,320; 1,325; 1,329;
                1,336; 1,341; 1,345; 1,352; 1,361;
1,368; 1,377
 zone:  Four_Node_AB
                1,16; 1,18; 1,19; 1,32; 1,35; 1,48;
1,51; 1,64; 1,65; 1,67;
                1,81; 1,83; 1,96; 1,97; 1,99;
1,100; 1,112; 1,113; 1,115;
                1,116; 1,149; 1,151; 1,152; 1,154;
1,155; 1,165; 1,168; 1,171;
                1,181; 1,182; 1,184; 1,187; 1,197;
1,198; 1,200; 1,201; 1,203;
                1,212; 1,213; 1,214; 1,217; 1,219;
1,228; 1,229; 1,230; 1,232;
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1,246; 1,248; 1,249; 1,251;
                1,252; 1,285; 1,287; 1,301; 1,317;
1,318; 1,333; 1,334; 1,348;
                1,349; 1,350; 1,364; 1,365; 1,366;
1,380; 1,381; 1,382
 zone:  Four_Node_BC
                1,18; 1,19; 1,20; 1,35; 1,36; 1,51;
1,52; 1,53; 1,67; 1,68;
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1,156; 1,164; 1,165; 1,171;
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1,189; 1,195; 1,196; 1,197;
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1,213; 1,219; 1,220; 1,221;
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1,243; 1,244; 1,251; 1,252;
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1,316; 1,317; 1,331; 1,332;
               1,333; 1,347; 1,348; 1,349; 1,363;
1,364; 1,379; 1,380
 zone:  John_Henning
               1,145; 1,147; 1,150; 1,163; 1,166;
1,176; 1,178; 1,179; 1,192;
               1,194; 1,199; 1,208; 1,210; 1,215;
1,224; 1,226; 1,231; 1,240;
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1,286; 1,299; 1,302; 1,312;
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1,335; 1,344; 1,346; 1,351;
               1,360; 1,362; 1,367; 1,376; 1,378;
1,383
 zone:  db28_data12thru13_4paul
               1,33; 1,49; 1,144; 1,160; 1,169;
1,185; 1,280; 1,296
 zone:  db29_data14_4daveV
               1,17; 1,111; 1,127; 1,153; 1,359;
1,375

Effective configuration:
 cfg:   All_Ports
 zone:  All_ports
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SFP Serial ID Information

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Slot  2/Port  0: id (sw) Vendor: BROCADE
Serial No: UAF110150000ZG7  Speed: 200,400,800_MB/s
Slot  2/Port  1: id (sw) Vendor: BROCADE
Serial No: UAF110150000Z0T  Speed: 200,400,800_MB/s
Slot  2/Port  2: id (sw) Vendor: BROCADE
Serial No: UAF110150000ZN0  Speed: 200,400,800_MB/s
Slot  2/Port  3: id (sw) Vendor: BROCADE
Serial No: UAF110150000ZM7  Speed: 200,400,800_MB/s
Slot  2/Port  4: id (sw) Vendor: BROCADE
Serial No: UAF110150000Z26  Speed: 200,400,800_MB/s
Slot  2/Port  5: id (sw) Vendor: BROCADE
Serial No: UAF110150000YB6  Speed: 200,400,800_MB/s
Slot  2/Port  6: id (sw) Vendor: BROCADE
Serial No: UAF110150000YAB  Speed: 200,400,800_MB/s
Slot  2/Port  7: id (sw) Vendor: BROCADE
Serial No: UAF110150000YBC  Speed: 200,400,800_MB/s
Slot  2/Port  8: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJE  Speed: 200,400,800_MB/s
Slot  2/Port  9: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJG  Speed: 200,400,800_MB/s
Slot  2/Port 10: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJJ  Speed: 200,400,800_MB/s
Slot  2/Port 11: id (sw) Vendor: BROCADE
Serial No: UAF1101400008FC  Speed: 200,400,800_MB/s
Slot  2/Port 12: id (sw) Vendor: BROCADE
Serial No: UAF110140000EHN  Speed: 200,400,800_MB/s
Slot  2/Port 13: id (sw) Vendor: BROCADE
Serial No: UAF110140000EKJ  Speed: 200,400,800_MB/s
Slot  2/Port 14: id (sw) Vendor: BROCADE
Serial No: UAF110140000EHK  Speed: 200,400,800_MB/s
Slot  2/Port 15: id (sw) Vendor: BROCADE
Serial No: UAF110140000EGS  Speed: 200,400,800_MB/s
Slot  3/Port  0: id (sw) Vendor: BROCADE
Serial No: UAF11016000209U  Speed: 200,400,800_MB/s
Slot  3/Port  1: id (sw) Vendor: BROCADE
Serial No: UAF1101500007US  Speed: 200,400,800_MB/s
Slot  3/Port  2: id (sw) Vendor: BROCADE
Serial No: UAF110160002096  Speed: 200,400,800_MB/s
Slot  3/Port  3: id (sw) Vendor: BROCADE
Serial No: UAF1101600020AV  Speed: 200,400,800_MB/s
Slot  3/Port  4: id (sw) Vendor: BROCADE
Serial No: UAF1101600020MY  Speed: 200,400,800_MB/s
Slot  3/Port  5: id (sw) Vendor: BROCADE
Serial No: UAF1101600020MU  Speed: 200,400,800_MB/s
Slot  3/Port  6: id (sw) Vendor: BROCADE
Serial No: UAF1101600020MZ  Speed: 200,400,800_MB/s
Slot  3/Port  7: id (sw) Vendor: BROCADE
Serial No: UAF1101600020MW  Speed: 200,400,800_MB/s
Slot  3/Port  8: id (sw) Vendor: BROCADE
Serial No: UAF1101600020A8  Speed: 200,400,800_MB/s
Slot  3/Port  9: id (sw) Vendor: BROCADE
Serial No: UAF11016000209S  Speed: 200,400,800_MB/s
Slot  3/Port 10: id (sw) Vendor: BROCADE
Serial No: UAF1101600020A3  Speed: 200,400,800_MB/s
Slot  3/Port 11: id (sw) Vendor: BROCADE
Serial No: UAF1101600020A0  Speed: 200,400,800_MB/s
Slot  3/Port 12: id (sw) Vendor: BROCADE
Serial No: UAF110160001Z7U  Speed: 200,400,800_MB/s
Slot  3/Port 13: id (sw) Vendor: BROCADE
Serial No: UAF110160001Z5B  Speed: 200,400,800_MB/s
Slot  3/Port 14: id (sw) Vendor: BROCADE
Serial No: UAF110160001Z75  Speed: 200,400,800_MB/s
Slot  3/Port 15: id (sw) Vendor: BROCADE
Serial No: UAF110160001Z71  Speed: 200,400,800_MB/s
Slot  4/Port  0: id (sw) Vendor: BROCADE
Serial No: UAF1101400008A6  Speed: 200,400,800_MB/s
Slot  4/Port  1: id (sw) Vendor: BROCADE
Serial No: UAF1101400008A0  Speed: 200,400,800_MB/s
Slot  4/Port  2: id (sw) Vendor: BROCADE
Serial No: UAF1101400008B9  Speed: 200,400,800_MB/s
Slot  4/Port  3: id (sw) Vendor: BROCADE
Serial No: UAF1101400008AW  Speed: 200,400,800_MB/s
Slot  4/Port  4: id (sw) Vendor: BROCADE
Serial No: UAF1101400008ES  Speed: 200,400,800_MB/s
Slot  4/Port  5: id (sw) Vendor: BROCADE
Serial No: UAF1101400008CJ  Speed: 200,400,800_MB/s
Slot  4/Port  6: id (sw) Vendor: BROCADE
Serial No: UAF1101400008C9  Speed: 200,400,800_MB/s
Slot  4/Port  7: id (sw) Vendor: BROCADE
Serial No: UAF1101400008BW  Speed: 200,400,800_MB/s
Slot  4/Port  8: id (sw) Vendor: BROCADE
Serial No: UAF110130000R6S  Speed: 200,400,800_MB/s
Slot  4/Port  9: id (sw) Vendor: BROCADE
Serial No: UAF110130000R5U  Speed: 200,400,800_MB/s
Slot  4/Port 10: id (sw) Vendor: BROCADE
Serial No: UAF110130000R68  Speed: 200,400,800_MB/s
Slot  4/Port 11: id (sw) Vendor: BROCADE
Serial No: UAF110130000R4T  Speed: 200,400,800_MB/s
Slot  4/Port 12: id (sw) Vendor: BROCADE
Serial No: UAF11014000039P  Speed: 200,400,800_MB/s
Slot  4/Port 13: id (sw) Vendor: BROCADE
Serial No: UAF11014000039W  Speed: 200,400,800_MB/s
Slot  4/Port 14: id (sw) Vendor: BROCADE
Serial No: UAF1101400003A3  Speed: 200,400,800_MB/s
Slot  4/Port 15: id (sw) Vendor: BROCADE
Serial No: UAF1101400003A7  Speed: 200,400,800_MB/s
Slot  9/Port  0: id (sw) Vendor: BROCADE
Serial No: UAF110150000RTJ  Speed: 200,400,800_MB/s
Slot  9/Port  1: id (sw) Vendor: BROCADE
Serial No: UAF110150000ZG2  Speed: 200,400,800_MB/s
Slot  9/Port  2: id (sw) Vendor: BROCADE
Serial No: UAF110150000ZL0  Speed: 200,400,800_MB/s
Slot  9/Port  3: id (sw) Vendor: BROCADE
Serial No: UAF110150000ZH7  Speed: 200,400,800_MB/s
Slot  9/Port  4: id (sw) Vendor: BROCADE
Serial No: UAF110150000W64  Speed: 200,400,800_MB/s
Slot  9/Port  5: id (sw) Vendor: BROCADE
Serial No: UAF110150000WUD  Speed: 200,400,800_MB/s
Slot  9/Port  6: id (sw) Vendor: BROCADE
Serial No: UAF110150000YC1  Speed: 200,400,800_MB/s
Slot  9/Port  7: id (sw) Vendor: BROCADE
Serial No: UAF110150000WU3  Speed: 200,400,800_MB/s
Slot  9/Port  8: id (sw) Vendor: BROCADE
Serial No: UAF11016000211Y  Speed: 200,400,800_MB/s
Slot  9/Port  9: id (sw) Vendor: BROCADE
Serial No: UAF110150000RRJ  Speed: 200,400,800_MB/s
Slot  9/Port 10: id (sw) Vendor: BROCADE
Serial No: UAF110150000Z0S  Speed: 200,400,800_MB/s
Slot  9/Port 11: id (sw) Vendor: BROCADE
Serial No: UAF110150000RTN  Speed: 200,400,800_MB/s
Slot  9/Port 12: id (sw) Vendor: BROCADE
Serial No: UAF110150000RSS  Speed: 200,400,800_MB/s
Slot  9/Port 13: id (sw) Vendor: BROCADE
Serial No: UAF11016000211U  Speed: 200,400,800_MB/s
Slot  9/Port 14: id (sw) Vendor: BROCADE
Serial No: UAF1101600020T7  Speed: 200,400,800_MB/s
Slot  9/Port 15: id (sw) Vendor: BROCADE
Serial No: UAF110150000RW4  Speed: 200,400,800_MB/s
Slot 10/Port  0: id (sw) Vendor: BROCADE
Serial No: UAF110160001SAU  Speed: 200,400,800_MB/s
Slot 10/Port  1: id (sw) Vendor: BROCADE
Serial No: UAF110160001S9J  Speed: 200,400,800_MB/s
Slot 10/Port  2: id (sw) Vendor: BROCADE
Serial No: UAF110160001S9N  Speed: 200,400,800_MB/s
Slot 10/Port  3: id (sw) Vendor: BROCADE
Serial No: UAF110160001S9L  Speed: 200,400,800_MB/s
Slot 10/Port  4: id (sw) Vendor: BROCADE
Serial No: UAF110160001U33  Speed: 200,400,800_MB/s
Slot 10/Port  5: id (sw) Vendor: BROCADE
Serial No: UAF110160001U2L  Speed: 200,400,800_MB/s
Slot 10/Port  6: id (sw) Vendor: BROCADE
Serial No: UAF110160001U2N  Speed: 200,400,800_MB/s
Slot 10/Port  7: id (sw) Vendor: BROCADE
Serial No: UAF110160001U2Z  Speed: 200,400,800_MB/s
Slot 10/Port  8: id (sw) Vendor: BROCADE
Serial No: UAF110140000DPG  Speed: 200,400,800_MB/s
Slot 10/Port  9: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNR  Speed: 200,400,800_MB/s
Slot 10/Port 10: id (sw) Vendor: BROCADE
Serial No: UAF110140000DPK  Speed: 200,400,800_MB/s
Slot 10/Port 11: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNT  Speed: 200,400,800_MB/s
Slot 10/Port 12: id (sw) Vendor: BROCADE
Serial No: UAF110140000CNY  Speed: 200,400,800_MB/s
Slot 10/Port 13: id (sw) Vendor: BROCADE
Serial No: UAF110140000CMN  Speed: 200,400,800_MB/s
Slot 10/Port 14: id (sw) Vendor: BROCADE
Serial No: UAF110140000CMR  Speed: 200,400,800_MB/s
Slot 10/Port 15: id (sw) Vendor: BROCADE
Serial No: UAF110140000CMV  Speed: 200,400,800_MB/s
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Slot 11/Port  0: id (sw) Vendor: BROCADE
Serial No: UAF110160001U2H  Speed: 200,400,800_MB/s
Slot 11/Port  1: id (sw) Vendor: BROCADE
Serial No: UAF110160001U31  Speed: 200,400,800_MB/s
Slot 11/Port  2: id (sw) Vendor: BROCADE
Serial No: UAF110160001TNN  Speed: 200,400,800_MB/s
Slot 11/Port  3: id (sw) Vendor: BROCADE
Serial No: UAF110160001U3G  Speed: 200,400,800_MB/s
Slot 11/Port  4: id (sw) Vendor: BROCADE
Serial No: UAF110160001U35  Speed: 200,400,800_MB/s
Slot 11/Port  5: id (sw) Vendor: BROCADE
Serial No: UAF110160001U3A  Speed: 200,400,800_MB/s
Slot 11/Port  6: id (sw) Vendor: BROCADE
Serial No: UAF110160001U2W  Speed: 200,400,800_MB/s
Slot 11/Port  7: id (sw) Vendor: BROCADE
Serial No: UAF110160001U3C  Speed: 200,400,800_MB/s
Slot 11/Port  8: id (sw) Vendor: BROCADE
Serial No: UAF110140000DMR  Speed: 200,400,800_MB/s
Slot 11/Port  9: id (sw) Vendor: BROCADE
Serial No: UAF110140000DMT  Speed: 200,400,800_MB/s
Slot 11/Port 10: id (sw) Vendor: BROCADE
Serial No: UAF110140000DMY  Speed: 200,400,800_MB/s
Slot 11/Port 11: id (sw) Vendor: BROCADE
Serial No: UAF110140000DMM  Speed: 200,400,800_MB/s
Slot 11/Port 12: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJC  Speed: 200,400,800_MB/s
Slot 11/Port 13: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJZ  Speed: 200,400,800_MB/s
Slot 11/Port 14: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJ9  Speed: 200,400,800_MB/s
Slot 11/Port 15: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJN  Speed: 200,400,800_MB/s
Slot 12/Port  0: id (sw) Vendor: BROCADE
Serial No: UAF1101600020LF  Speed: 200,400,800_MB/s
Slot 12/Port  1: id (sw) Vendor: BROCADE
Serial No: UAF1101600020L2  Speed: 200,400,800_MB/s
Slot 12/Port  2: id (sw) Vendor: BROCADE
Serial No: UAF1101600020KU  Speed: 200,400,800_MB/s
Slot 12/Port  3: id (sw) Vendor: BROCADE
Serial No: UAF1101600020KV  Speed: 200,400,800_MB/s
Slot 12/Port  4: id (sw) Vendor: BROCADE
Serial No: UAF1101600020L4  Speed: 200,400,800_MB/s
Slot 12/Port  5: id (sw) Vendor: BROCADE
Serial No: UAF110160001TM6  Speed: 200,400,800_MB/s
Slot 12/Port  6: id (sw) Vendor: BROCADE
Serial No: UAF110160001TM4  Speed: 200,400,800_MB/s
Slot 12/Port  7: id (sw) Vendor: BROCADE
Serial No: UAF110160001TLZ  Speed: 200,400,800_MB/s
Slot 12/Port  8: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNE  Speed: 200,400,800_MB/s
Slot 12/Port  9: id (sw) Vendor: BROCADE
Serial No: UAF110140000DN4  Speed: 200,400,800_MB/s
Slot 12/Port 10: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNA  Speed: 200,400,800_MB/s
Slot 12/Port 11: id (sw) Vendor: BROCADE
Serial No: UAF110140000DN6  Speed: 200,400,800_MB/s
Slot 12/Port 12: id (sw) Vendor: BROCADE
Serial No: UAF1101400008DR  Speed: 200,400,800_MB/s
Slot 12/Port 13: id (sw) Vendor: BROCADE
Serial No: UAF1101400008EL  Speed: 200,400,800_MB/s
Slot 12/Port 14: id (sw) Vendor: BROCADE
Serial No: UAF1101400008F4  Speed: 200,400,800_MB/s
Slot 12/Port 15: id (sw) Vendor: BROCADE
Serial No: UAF1101400008EZ  Speed: 200,400,800_MB/s
Slot  2/Port 16: id (sw) Vendor: BROCADE
Serial No: UAF110140000JSN  Speed: 200,400,800_MB/s
Slot  2/Port 17: id (sw) Vendor: BROCADE
Serial No: UAF110140000JS7  Speed: 200,400,800_MB/s
Slot  2/Port 18: id (sw) Vendor: BROCADE
Serial No: UAF110140000JPW  Speed: 200,400,800_MB/s
Slot  2/Port 19: id (sw) Vendor: BROCADE
Serial No: UAF110140000JRT  Speed: 200,400,800_MB/s
Slot  2/Port 20: id (sw) Vendor: BROCADE
Serial No: UAF110140000JPT  Speed: 200,400,800_MB/s
Slot  2/Port 21: id (sw) Vendor: BROCADE
Serial No: UAF110140000JS9  Speed: 200,400,800_MB/s
Slot  2/Port 22: id (sw) Vendor: BROCADE
Serial No: UAF110140000JRJ  Speed: 200,400,800_MB/s
Slot  2/Port 23: id (sw) Vendor: BROCADE
Serial No: UAF110140000JPL  Speed: 200,400,800_MB/s
Slot  2/Port 24: id (sw) Vendor: BROCADE
Serial No: UAF110150000TYY  Speed: 200,400,800_MB/s
Slot  2/Port 25: id (sw) Vendor: BROCADE
Serial No: UAF110150000ZM2  Speed: 200,400,800_MB/s
Slot  2/Port 26: id (sw) Vendor: BROCADE
Serial No: UAF110150000ZML  Speed: 200,400,800_MB/s
Slot  2/Port 27: id (sw) Vendor: BROCADE
Serial No: UAF110150000TYT  Speed: 200,400,800_MB/s
Slot  2/Port 28: id (sw) Vendor: BROCADE
Serial No: UAF110150000TYL  Speed: 200,400,800_MB/s
Slot  2/Port 29: id (sw) Vendor: BROCADE
Serial No: UAF110150000TZP  Speed: 200,400,800_MB/s
Slot  2/Port 30: id (sw) Vendor: BROCADE
Serial No: UAF110150000TZG  Speed: 200,400,800_MB/s
Slot  2/Port 31: id (sw) Vendor: BROCADE
Serial No: UAF110150000TZA  Speed: 200,400,800_MB/s
Slot  3/Port 16: id (sw) Vendor: BROCADE
Serial No: UAF110140000KHA  Speed: 200,400,800_MB/s
Slot  3/Port 17: id (sw) Vendor: BROCADE
Serial No: UAF110140000KHL  Speed: 200,400,800_MB/s
Slot  3/Port 18: id (sw) Vendor: BROCADE
Serial No: UAF110140000HK3  Speed: 200,400,800_MB/s
Slot  3/Port 19: id (sw) Vendor: BROCADE
Serial No: UAF110140000KHP  Speed: 200,400,800_MB/s
Slot  3/Port 20: id (sw) Vendor: BROCADE
Serial No: UAF110160001Z6P  Speed: 200,400,800_MB/s
Slot  3/Port 21: id (sw) Vendor: BROCADE
Serial No: UAF110160001Z7B  Speed: 200,400,800_MB/s
Slot  3/Port 22: id (sw) Vendor: BROCADE
Serial No: UAF110160001Z6V  Speed: 200,400,800_MB/s
Slot  3/Port 23: id (sw) Vendor: BROCADE
Serial No: UAF110160001Z4D  Speed: 200,400,800_MB/s
Slot  3/Port 24: id (sw) Vendor: BROCADE
Serial No: UAF1101700004S1  Speed: 200,400,800_MB/s
Slot  3/Port 25: id (sw) Vendor: BROCADE
Serial No: UAF1101600020MV  Speed: 200,400,800_MB/s
Slot  3/Port 26: id (sw) Vendor: BROCADE
Serial No: UAF1101600020ML  Speed: 200,400,800_MB/s
Slot  3/Port 27: id (sw) Vendor: BROCADE
Serial No: UAF1101600020MN  Speed: 200,400,800_MB/s
Slot  3/Port 28: id (sw) Vendor: BROCADE
Serial No: UAF110160002253  Speed: 200,400,800_MB/s
Slot  3/Port 29: id (sw) Vendor: BROCADE
Serial No: UAF11016000224E  Speed: 200,400,800_MB/s
Slot  3/Port 30: id (sw) Vendor: BROCADE
Serial No: UAF110160002259  Speed: 200,400,800_MB/s
Slot  3/Port 31: id (sw) Vendor: BROCADE
Serial No: UAF110160002255  Speed: 200,400,800_MB/s
Slot  4/Port 16: id (sw) Vendor: BROCADE
Serial No: UAF110130001TEF  Speed: 200,400,800_MB/s
Slot  4/Port 17: id (sw) Vendor: BROCADE
Serial No: UAF110130001TE1  Speed: 200,400,800_MB/s
Slot  4/Port 18: id (sw) Vendor: BROCADE
Serial No: UAF110130001TDZ  Speed: 200,400,800_MB/s
Slot  4/Port 19: id (sw) Vendor: BROCADE
Serial No: UAF110130001TEK  Speed: 200,400,800_MB/s
Slot  4/Port 20: id (sw) Vendor: BROCADE
Serial No: UAF110130001UM1  Speed: 200,400,800_MB/s
Slot  4/Port 21: id (sw) Vendor: BROCADE
Serial No: UAF110130001UMP  Speed: 200,400,800_MB/s
Slot  4/Port 22: id (sw) Vendor: BROCADE
Serial No: UAF110130001UMH  Speed: 200,400,800_MB/s
Slot  4/Port 23: id (sw) Vendor: BROCADE
Serial No: UAF110130001UMC  Speed: 200,400,800_MB/s
Slot  4/Port 24: id (sw) Vendor: BROCADE
Serial No: UAF110140000CP4  Speed: 200,400,800_MB/s
Slot  4/Port 25: id (sw) Vendor: BROCADE
Serial No: UAF1101400008DG  Speed: 200,400,800_MB/s
Slot  4/Port 26: id (sw) Vendor: BROCADE
Serial No: UAF1101400008BG  Speed: 200,400,800_MB/s
Slot  4/Port 27: id (sw) Vendor: BROCADE
Serial No: UAF1101400008B4  Speed: 200,400,800_MB/s
Slot  4/Port 28: id (sw) Vendor: BROCADE
Serial No: UAF1101400008BR  Speed: 200,400,800_MB/s
Slot  4/Port 29: id (sw) Vendor: BROCADE
Serial No: UAF1101400008C3  Speed: 200,400,800_MB/s
Slot  4/Port 30: id (sw) Vendor: BROCADE
Serial No: UAF1101400008D3  Speed: 200,400,800_MB/s
Slot  4/Port 31: id (sw) Vendor: BROCADE
Serial No: UAF1101400008AD  Speed: 200,400,800_MB/s
Slot  9/Port 16: id (sw) Vendor: BROCADE
Serial No: UAF11016000212P  Speed: 200,400,800_MB/s
Slot  9/Port 17: id (sw) Vendor: BROCADE
Serial No: UAF11016000212S  Speed: 200,400,800_MB/s
Slot  9/Port 18: id (sw) Vendor: BROCADE
Serial No: UAF110160002121  Speed: 200,400,800_MB/s
Slot  9/Port 19: id (sw) Vendor: BROCADE
Serial No: UAF110160002124  Speed: 200,400,800_MB/s
Slot  9/Port 20: id (sw) Vendor: BROCADE
Serial No: UAF110160001SDG  Speed: 200,400,800_MB/s
Slot  9/Port 21: id (sw) Vendor: BROCADE
Serial No: UAF110160001SDE  Speed: 200,400,800_MB/s
Slot  9/Port 22: id (sw) Vendor: BROCADE
Serial No: UAF110160001SE1  Speed: 200,400,800_MB/s
Slot  9/Port 23: id (sw) Vendor: BROCADE
Serial No: UAF110160001SDF  Speed: 200,400,800_MB/s
Slot  9/Port 24: id (sw) Vendor: BROCADE
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Serial No: UAF110150000RSN  Speed: 200,400,800_MB/s
Slot  9/Port 25: id (sw) Vendor: BROCADE
Serial No: UAF110150000RSU  Speed: 200,400,800_MB/s
Slot  9/Port 26: id (sw) Vendor: BROCADE
Serial No: UAF110150000RSL  Speed: 200,400,800_MB/s
Slot  9/Port 27: id (sw) Vendor: BROCADE
Serial No: UAF110150000RU6  Speed: 200,400,800_MB/s
Slot  9/Port 28: id (sw) Vendor: BROCADE
Serial No: UAF110150000U14  Speed: 200,400,800_MB/s
Slot  9/Port 29: id (sw) Vendor: BROCADE
Serial No: UAF110150000RSJ  Speed: 200,400,800_MB/s
Slot  9/Port 30: id (sw) Vendor: BROCADE
Serial No: UAF110150000TZS  Speed: 200,400,800_MB/s
Slot  9/Port 31: id (sw) Vendor: BROCADE
Serial No: UAF110150000U1G  Speed: 200,400,800_MB/s
Slot 10/Port 16: id (sw) Vendor: BROCADE
Serial No: UAF110140000E30  Speed: 200,400,800_MB/s
Slot 10/Port 17: id (sw) Vendor: BROCADE
Serial No: UAF110140000E32  Speed: 200,400,800_MB/s
Slot 10/Port 18: id (sw) Vendor: BROCADE
Serial No: UAF110140000E14  Speed: 200,400,800_MB/s
Slot 10/Port 19: id (sw) Vendor: BROCADE
Serial No: UAF110140000E3E  Speed: 200,400,800_MB/s
Slot 10/Port 20: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNC  Speed: 200,400,800_MB/s
Slot 10/Port 21: id (sw) Vendor: BROCADE
Serial No: UAF110140000DP3  Speed: 200,400,800_MB/s
Slot 10/Port 22: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNM  Speed: 200,400,800_MB/s
Slot 10/Port 23: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNY  Speed: 200,400,800_MB/s
Slot 10/Port 24: id (sw) Vendor: BROCADE
Serial No: UAF110160001TSJ  Speed: 200,400,800_MB/s
Slot 10/Port 25: id (sw) Vendor: BROCADE
Serial No: UAF110160001SA0  Speed: 200,400,800_MB/s
Slot 10/Port 26: id (sw) Vendor: BROCADE
Serial No: UAF110160001S9F  Speed: 200,400,800_MB/s
Slot 10/Port 27: id (sw) Vendor: BROCADE
Serial No: UAF110160001S9E  Speed: 200,400,800_MB/s
Slot 10/Port 28: id (sw) Vendor: BROCADE
Serial No: UAF1101100012VD  Speed: 200,400,800_MB/s
Slot 10/Port 29: id (sw) Vendor: BROCADE
Serial No: UAF1101100012VJ  Speed: 200,400,800_MB/s
Slot 10/Port 30: id (sw) Vendor: BROCADE
Serial No: UAF1101100012VK  Speed: 200,400,800_MB/s
Slot 10/Port 31: id (sw) Vendor: BROCADE
Serial No: UAF1101100012VF  Speed: 200,400,800_MB/s
Slot 11/Port 16: id (sw) Vendor: BROCADE
Serial No: UAF110140000DSY  Speed: 200,400,800_MB/s
Slot 11/Port 17: id (sw) Vendor: BROCADE
Serial No: UAF110140000DT1  Speed: 200,400,800_MB/s
Slot 11/Port 18: id (sw) Vendor: BROCADE
Serial No: UAF110140000DTA  Speed: 200,400,800_MB/s
Slot 11/Port 19: id (sw) Vendor: BROCADE
Serial No: UAF110140000DT8  Speed: 200,400,800_MB/s
Slot 11/Port 20: id (sw) Vendor: BROCADE
Serial No: UAF110140000DTU  Speed: 200,400,800_MB/s
Slot 11/Port 21: id (sw) Vendor: BROCADE
Serial No: UAF110140000DU6  Speed: 200,400,800_MB/s
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Slot 11/Port 22: id (sw) Vendor: BROCADE
Serial No: UAF110140000DUC  Speed: 200,400,800_MB/s
Slot 11/Port 23: id (sw) Vendor: BROCADE
Serial No: UAF110140000DTL  Speed: 200,400,800_MB/s
Slot 11/Port 24: id (sw) Vendor: BROCADE
Serial No: UAF110160001THM  Speed: 200,400,800_MB/s
Slot 11/Port 25: id (sw) Vendor: BROCADE
Serial No: UAF110160001TGJ  Speed: 200,400,800_MB/s
Slot 11/Port 26: id (sw) Vendor: BROCADE
Serial No: UAF110160001THB  Speed: 200,400,800_MB/s
Slot 11/Port 27: id (sw) Vendor: BROCADE
Serial No: UAF110160001TGV  Speed: 200,400,800_MB/s
Slot 11/Port 28: id (sw) Vendor: BROCADE
Serial No: UAF110160001TGP  Speed: 200,400,800_MB/s
Slot 11/Port 29: id (sw) Vendor: BROCADE
Serial No: UAF110160001TGF  Speed: 200,400,800_MB/s
Slot 11/Port 30: id (sw) Vendor: BROCADE
Serial No: UAF110160001TH1  Speed: 200,400,800_MB/s
Slot 11/Port 31: id (sw) Vendor: BROCADE
Serial No: UAF110160001TH6  Speed: 200,400,800_MB/s
Slot 12/Port 16: id (sw) Vendor: BROCADE
Serial No: UAF110140000CP6  Speed: 200,400,800_MB/s
Slot 12/Port 17: id (sw) Vendor: BROCADE
Serial No: UAF110140000DAE  Speed: 200,400,800_MB/s
Slot 12/Port 18: id (sw) Vendor: BROCADE
Serial No: UAF1101400002RR  Speed: 200,400,800_MB/s
Slot 12/Port 19: id (sw) Vendor: BROCADE
Serial No: UAF110140000DHL  Speed: 200,400,800_MB/s
Slot 12/Port 20: id (sw) Vendor: BROCADE
Serial No: UAF1101400003GV  Speed: 200,400,800_MB/s
Slot 12/Port 21: id (sw) Vendor: BROCADE
Serial No: UAF11014000044J  Speed: 200,400,800_MB/s
Slot 12/Port 22: id (sw) Vendor: BROCADE
Serial No: UAF1101400003T9  Speed: 200,400,800_MB/s
Slot 12/Port 23: id (sw) Vendor: BROCADE
Serial No: UAF1101400003TW  Speed: 200,400,800_MB/s
Slot 12/Port 24: id (sw) Vendor: BROCADE
Serial No: UAF110160001TMZ  Speed: 200,400,800_MB/s
Slot 12/Port 25: id (sw) Vendor: BROCADE
Serial No: UAF110160001TMJ  Speed: 200,400,800_MB/s
Slot 12/Port 26: id (sw) Vendor: BROCADE
Serial No: UAF110160001TML  Speed: 200,400,800_MB/s
Slot 12/Port 27: id (sw) Vendor: BROCADE
Serial No: UAF110160001TMT  Speed: 200,400,800_MB/s
Slot 12/Port 28: id (sw) Vendor: BROCADE
Serial No: UAF110160001TW3  Speed: 200,400,800_MB/s
Slot 12/Port 29: id (sw) Vendor: BROCADE
Serial No: UAF110160001TVG  Speed: 200,400,800_MB/s
Slot 12/Port 30: id (sw) Vendor: BROCADE
Serial No: UAF110160001TUY  Speed: 200,400,800_MB/s
Slot 12/Port 31: id (sw) Vendor: BROCADE
Serial No: UAF110160001TVT  Speed: 200,400,800_MB/s
Slot  2/Port 32: id (sw) Vendor: BROCADE
Serial No: UAF110140000HK9  Speed: 200,400,800_MB/s
Slot  2/Port 33: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJL  Speed: 200,400,800_MB/s
Slot  2/Port 34: id (sw) Vendor: BROCADE
Serial No: UAF110140000HK6  Speed: 200,400,800_MB/s
Slot  2/Port 35: id (sw) Vendor: BROCADE
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Serial No: UAF110140000EHG  Speed: 200,400,800_MB/s
Slot  2/Port 36: id (sw) Vendor: BROCADE
Serial No: UAF110140000EJC  Speed: 200,400,800_MB/s
Slot  2/Port 37: id (sw) Vendor: BROCADE
Serial No: UAF110140000EKV  Speed: 200,400,800_MB/s
Slot  2/Port 38: id (sw) Vendor: BROCADE
Serial No: UAF110140000EHC  Speed: 200,400,800_MB/s
Slot  2/Port 39: id (sw) Vendor: BROCADE
Serial No: UAF110140000JRN  Speed: 200,400,800_MB/s
Slot  2/Port 40: id (sw) Vendor: BROCADE
Serial No: UAF110140000JSL  Speed: 200,400,800_MB/s
Slot  2/Port 41: id (sw) Vendor: BROCADE
Serial No: UAF110140000JSB  Speed: 200,400,800_MB/s
Slot  2/Port 42: id (sw) Vendor: BROCADE
Serial No: UAF110140000JS0  Speed: 200,400,800_MB/s
Slot  2/Port 43: id (sw) Vendor: BROCADE
Serial No: UAF110140000JSJ  Speed: 200,400,800_MB/s
Slot  2/Port 44: id (sw) Vendor: BROCADE
Serial No: UAF110140000JRF  Speed: 200,400,800_MB/s
Slot  2/Port 45: id (sw) Vendor: BROCADE
Serial No: UAF110140000JS4  Speed: 200,400,800_MB/s
Slot  2/Port 46: id (sw) Vendor: BROCADE
Serial No: UAF110130000R5W  Speed: 200,400,800_MB/s
Slot  2/Port 47: id (sw) Vendor: BROCADE
Serial No: UAF110140000JRD  Speed: 200,400,800_MB/s
Slot  3/Port 32: id (sw) Vendor: BROCADE
Serial No: UAF11014000089R  Speed: 200,400,800_MB/s
Slot  3/Port 33: id (sw) Vendor: BROCADE
Serial No: UAF11014000089A  Speed: 200,400,800_MB/s
Slot  3/Port 34: id (sw) Vendor: BROCADE
Serial No: UAF110140000894  Speed: 200,400,800_MB/s
Slot  3/Port 35: id (sw) Vendor: BROCADE
Serial No: UAF1101400008AR  Speed: 200,400,800_MB/s
Slot  3/Port 36: id (sw) Vendor: BROCADE
Serial No: UAF11014000087T  Speed: 200,400,800_MB/s
Slot  3/Port 37: id (sw) Vendor: BROCADE
Serial No: UAF1101400008AK  Speed: 200,400,800_MB/s
Slot  3/Port 38: id (sw) Vendor: BROCADE
Serial No: UAF110140000KHJ  Speed: 200,400,800_MB/s
Slot  3/Port 39: id (sw) Vendor: BROCADE
Serial No: UAF11014000089Y  Speed: 200,400,800_MB/s
Slot  3/Port 40: id (sw) Vendor: BROCADE
Serial No: UAF11016000224A  Speed: 200,400,800_MB/s
Slot  3/Port 41: id (sw) Vendor: BROCADE
Serial No: UAF11016000225C  Speed: 200,400,800_MB/s
Slot  3/Port 42: id (sw) Vendor: BROCADE
Serial No: UAF11016000225E  Speed: 200,400,800_MB/s
Slot  3/Port 43: id (sw) Vendor: BROCADE
Serial No: UAF110160002258  Speed: 200,400,800_MB/s
Slot  3/Port 44: id (sw) Vendor: BROCADE
Serial No: UAF110140000KHD  Speed: 200,400,800_MB/s
Slot  3/Port 45: id (sw) Vendor: BROCADE
Serial No: UAF110140000KHF  Speed: 200,400,800_MB/s
Slot  3/Port 46: id (sw) Vendor: BROCADE
Serial No: UAF110140000KHT  Speed: 200,400,800_MB/s
Slot  3/Port 47: id (sw) Vendor: BROCADE
Serial No: UAF110140000CNL  Speed: 200,400,800_MB/s
Slot  4/Port 32: id (sw) Vendor: BROCADE
Serial No: UAF11014000005L  Speed: 200,400,800_MB/s
```

```
Slot  4/Port 33: id (sw) Vendor: BROCADE
Serial No: UAF110130000R53  Speed: 200,400,800_MB/s
Slot  4/Port 34: id (sw) Vendor: BROCADE
Serial No: UAF110130000R56  Speed: 200,400,800_MB/s
Slot  4/Port 35: id (sw) Vendor: BROCADE
Serial No: UAF110130000R4Z  Speed: 200,400,800_MB/s
Slot  4/Port 36: id (sw) Vendor: BROCADE
Serial No: UAF110140000376  Speed: 200,400,800_MB/s
Slot  4/Port 37: id (sw) Vendor: BROCADE
Serial No: UAF11014000039M  Speed: 200,400,800_MB/s
Slot  4/Port 38: id (sw) Vendor: BROCADE
Serial No: UAF11014000039T  Speed: 200,400,800_MB/s
Slot  4/Port 39: id (sw) Vendor: BROCADE
Serial No: UAF11014000037A  Speed: 200,400,800_MB/s
Slot  4/Port 40: id (sw) Vendor: BROCADE
Serial No: UAF110130001TE7  Speed: 200,400,800_MB/s
Slot  4/Port 41: id (sw) Vendor: BROCADE
Serial No: UAF110130001TE5  Speed: 200,400,800_MB/s
Slot  4/Port 42: id (sw) Vendor: BROCADE
Serial No: UAF110130001TE9  Speed: 200,400,800_MB/s
Slot  4/Port 43: id (sw) Vendor: BROCADE
Serial No: UAF110130001TEB  Speed: 200,400,800_MB/s
Slot  4/Port 44: id (sw) Vendor: BROCADE
Serial No: UAF110130001UMV  Speed: 200,400,800_MB/s
Slot  4/Port 45: id (sw) Vendor: BROCADE
Serial No: UAF110130001UMT  Speed: 200,400,800_MB/s
Slot  4/Port 46: id (sw) Vendor: BROCADE
Serial No: UAF110130001UNA  Speed: 200,400,800_MB/s
Slot  4/Port 47: id (sw) Vendor: BROCADE
Serial No: UAF110130001UN5  Speed: 200,400,800_MB/s
Slot  9/Port 32: id (sw) Vendor: BROCADE
Serial No: UAF110150000WUA  Speed: 200,400,800_MB/s
Slot  9/Port 33: id (sw) Vendor: BROCADE
Serial No: UAF110150000RT0  Speed: 200,400,800_MB/s
Slot  9/Port 34: id (sw) Vendor: BROCADE
Serial No: UAF110150000RS3  Speed: 200,400,800_MB/s
Slot  9/Port 35: id (sw) Vendor: BROCADE
Serial No: UAF110150000RSY  Speed: 200,400,800_MB/s
Slot  9/Port 36: id (sw) Vendor: BROCADE
Serial No: UAF110150000RVS  Speed: 200,400,800_MB/s
Slot  9/Port 37: id (sw) Vendor: BROCADE
Serial No: UAF110150000Z2B  Speed: 200,400,800_MB/s
Slot  9/Port 38: id (sw) Vendor: BROCADE
Serial No: UAF110150000RVW  Speed: 200,400,800_MB/s
Slot  9/Port 39: id (sw) Vendor: BROCADE
Serial No: UAF110150000RW0  Speed: 200,400,800_MB/s
Slot  9/Port 40: id (sw) Vendor: BROCADE
Serial No: UAF1101700004T3  Speed: 200,400,800_MB/s
Slot  9/Port 41: id (sw) Vendor: BROCADE
Serial No: UAF110150000Z2F  Speed: 200,400,800_MB/s
Slot  9/Port 42: id (sw) Vendor: BROCADE
Serial No: UAF110150000Z10  Speed: 200,400,800_MB/s
Slot  9/Port 43: id (sw) Vendor: BROCADE
Serial No: UAF1101700004U1  Speed: 200,400,800_MB/s
Slot  9/Port 44: id (sw) Vendor: BROCADE
Serial No: UAF11017000050Z  Speed: 200,400,800_MB/s
Slot  9/Port 45: id (sw) Vendor: BROCADE
Serial No: UAF110150000Z0M  Speed: 200,400,800_MB/s
Slot  9/Port 46: id (sw) Vendor: BROCADE
Serial No: UAF1101700004SU  Speed: 200,400,800_MB/s
Slot  9/Port 47: id (sw) Vendor: BROCADE
Serial No: UAF110150000U18  Speed: 200,400,800_MB/s
Slot 10/Port 32: id (sw) Vendor: BROCADE
Serial No: UAF110140000CM8  Speed: 200,400,800_MB/s
Slot 10/Port 33: id (sw) Vendor: BROCADE
Serial No: UAF110140000CMJ  Speed: 200,400,800_MB/s
Slot 10/Port 34: id (sw) Vendor: BROCADE
Serial No: UAF110140000CNE  Speed: 200,400,800_MB/s
Slot 10/Port 35: id (sw) Vendor: BROCADE
Serial No: UAF110140000CML  Speed: 200,400,800_MB/s
Slot 10/Port 36: id (sw) Vendor: BROCADE
Serial No: UAF1101400008EE  Speed: 200,400,800_MB/s
Slot 10/Port 37: id (sw) Vendor: BROCADE
Serial No: UAF110140000DPA  Speed: 200,400,800_MB/s
Slot 10/Port 38: id (sw) Vendor: BROCADE
Serial No: UAF110140000DRD  Speed: 200,400,800_MB/s
Slot 10/Port 39: id (sw) Vendor: BROCADE
Serial No: UAF110140000DRG  Speed: 200,400,800_MB/s
Slot 10/Port 40: id (sw) Vendor: BROCADE
Serial No: UAF110140000E12  Speed: 200,400,800_MB/s
Slot 10/Port 41: id (sw) Vendor: BROCADE
Serial No: UAF110140000E34  Speed: 200,400,800_MB/s
Slot 10/Port 42: id (sw) Vendor: BROCADE
Serial No: UAF110140000E2Y  Speed: 200,400,800_MB/s
Slot 10/Port 43: id (sw) Vendor: BROCADE
Serial No: UAF110140000E3A  Speed: 200,400,800_MB/s
Slot 10/Port 44: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNJ  Speed: 200,400,800_MB/s
Slot 10/Port 45: id (sw) Vendor: BROCADE
Serial No: UAF110140000DN9  Speed: 200,400,800_MB/s
Slot 10/Port 46: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNP  Speed: 200,400,800_MB/s
Slot 10/Port 47: id (sw) Vendor: BROCADE
Serial No: UAF110140000DP0  Speed: 200,400,800_MB/s
Slot 11/Port 32: id (sw) Vendor: BROCADE
Serial No: UAF110140000DMD  Speed: 200,400,800_MB/s
Slot 11/Port 33: id (sw) Vendor: BROCADE
Serial No: UAF110140000DMV  Speed: 200,400,800_MB/s
Slot 11/Port 34: id (sw) Vendor: BROCADE
Serial No: UAF110140000DMK  Speed: 200,400,800_MB/s
Slot 11/Port 35: id (sw) Vendor: BROCADE
Serial No: UAF110140000DMH  Speed: 200,400,800_MB/s
Slot 11/Port 36: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJT  Speed: 200,400,800_MB/s
Slot 11/Port 37: id (sw) Vendor: BROCADE
Serial No: UAF110140000HK1  Speed: 200,400,800_MB/s
Slot 11/Port 38: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJ7  Speed: 200,400,800_MB/s
Slot 11/Port 39: id (sw) Vendor: BROCADE
Serial No: UAF110140000HJV  Speed: 200,400,800_MB/s
Slot 11/Port 40: id (sw) Vendor: BROCADE
Serial No: UAF110140000DSL  Speed: 200,400,800_MB/s
Slot 11/Port 41: id (sw) Vendor: BROCADE
Serial No: UAF110140000DT3  Speed: 200,400,800_MB/s
Slot 11/Port 42: id (sw) Vendor: BROCADE
Serial No: UAF110140000DT5  Speed: 200,400,800_MB/s
Slot 11/Port 43: id (sw) Vendor: BROCADE
Serial No: UAF110140000DSZ  Speed: 200,400,800_MB/s
Slot 11/Port 44: id (sw) Vendor: BROCADE
Serial No: UAF110140000DU0  Speed: 200,400,800_MB/s
Slot 11/Port 45: id (sw) Vendor: BROCADE
Serial No: UAF110140000DU8  Speed: 200,400,800_MB/s
Slot 11/Port 46: id (sw) Vendor: BROCADE
Serial No: UAF110140000DUA  Speed: 200,400,800_MB/s
Slot 11/Port 47: id (sw) Vendor: BROCADE
Serial No: UAF110140000DTS  Speed: 200,400,800_MB/s
Slot 12/Port 32: id (sw) Vendor: BROCADE
Serial No: UAF110140000KLD  Speed: 200,400,800_MB/s
Slot 12/Port 33: id (sw) Vendor: BROCADE
Serial No: UAF110140000KLJ  Speed: 200,400,800_MB/s
Slot 12/Port 34: id (sw) Vendor: BROCADE
Serial No: UAF110140000CMB  Speed: 200,400,800_MB/s
Slot 12/Port 35: id (sw) Vendor: BROCADE
Serial No: UAF110140000KLE  Speed: 200,400,800_MB/s
Slot 12/Port 36: id (sw) Vendor: BROCADE
Serial No: UAF11014000048G  Speed: 200,400,800_MB/s
Slot 12/Port 37: id (sw) Vendor: BROCADE
Serial No: UAF1101400004AW  Speed: 200,400,800_MB/s
Slot 12/Port 38: id (sw) Vendor: BROCADE
Serial No: UAF1101400004E3  Speed: 200,400,800_MB/s
Slot 12/Port 39: id (sw) Vendor: BROCADE
Serial No: UAF110140000DMP  Speed: 200,400,800_MB/s
Slot 12/Port 40: id (sw) Vendor: BROCADE
Serial No: UAF1101400008E7  Speed: 200,400,800_MB/s
Slot 12/Port 41: id (sw) Vendor: BROCADE
Serial No: UAF110140000DNG  Speed: 200,400,800_MB/s
Slot 12/Port 42: id (sw) Vendor: BROCADE
Serial No: UAF110140000DN0  Speed: 200,400,800_MB/s
Slot 12/Port 43: id (sw) Vendor: BROCADE
Serial No: UAF110140000DN2  Speed: 200,400,800_MB/s
Slot 12/Port 44: id (sw) Vendor: BROCADE
Serial No: UAF1101400004MJ  Speed: 200,400,800_MB/s
Slot 12/Port 45: id (sw) Vendor: BROCADE
Serial No: UAF110140000CN2  Speed: 200,400,800_MB/s
Slot 12/Port 46: id (sw) Vendor: BROCADE
Serial No: UAF110140000CNF  Speed: 200,400,800_MB/s
Slot 12/Port 47: id (sw) Vendor: BROCADE
Serial No: UAF110140000KLC  Speed: 200,400,800_MB/s
Slot  5/Port  0: cu
Slot  5/Port  1: cu
Slot  5/Port  2: cu
Slot  5/Port  3: cu
Slot  5/Port  4: cu
Slot  5/Port  5: cu
Slot  5/Port  6: cu
Slot  5/Port  7: cu
Slot  5/Port  8: cu
Slot  5/Port  9: cu
Slot  5/Port 10: cu
Slot  5/Port 11: cu
Slot  5/Port 12: cu
Slot  5/Port 13: cu
Slot  5/Port 14: cu
Slot  5/Port 15: cu
Slot  5/Port 16: cu
Slot  5/Port 17: cu
Slot  5/Port 18: cu
```

```
Slot  5/Port 19: cu
Slot  5/Port 20: cu
Slot  5/Port 21: cu
Slot  5/Port 22: cu
Slot  5/Port 23: cu
Slot  5/Port 24: cu
Slot  5/Port 25: cu
Slot  5/Port 26: cu
Slot  5/Port 27: cu
Slot  5/Port 28: cu
Slot  5/Port 29: cu
Slot  5/Port 30: cu
Slot  5/Port 31: cu
Slot  8/Port  0: cu
Slot  8/Port  1: cu
Slot  8/Port  2: cu
Slot  8/Port  3: cu
Slot  8/Port  4: cu
Slot  8/Port  5: cu
Slot  8/Port  6: cu
Slot  8/Port  7: cu
Slot  8/Port  8: cu
Slot  8/Port  9: cu
Slot  8/Port 10: cu
Slot  8/Port 11: cu
Slot  8/Port 12: cu
Slot  8/Port 13: cu
Slot  8/Port 14: cu
Slot  8/Port 15: cu
Slot  8/Port 16: cu
Slot  8/Port 17: cu
Slot  8/Port 18: cu
Slot  8/Port 19: cu
Slot  8/Port 20: cu
Slot  8/Port 21: cu
Slot  8/Port 22: cu
Slot  8/Port 23: cu
Slot  8/Port 24: cu
Slot  8/Port 25: cu
Slot  8/Port 26: cu
Slot  8/Port 27: cu
Slot  8/Port 28: cu
Slot  8/Port 29: cu
Slot  8/Port 30: cu
Slot  8/Port 31: cu
```

Brocade 5300-1 – REDO Log

Switch Information Report for b5300-1

List of Switches

```
Switch ID   Worldwide Name           Enet IP Addr
FC IP Addr      Name
---------------------------------------------------
----------------------
  1: fffc01 10:00:00:05:1e:ae:ec:50 10.196.0.100
0.0.0.0        >"b5300-1"
```

Current Switch Information

```
Ethernet IP Address: 10.196.0.100
Ethernet Subnetmask: 255.255.0.0
Fibre Channel IP Address: 0.0.0.0
Fibre Channel Subnetmask: 0.0.0.0
Gateway Address: 10.196.0.1
Ethernet IPv6 Addresses:

Kernel:     2.6.14.2
Fabric OS:  v6.2.0c
Made on:    Mon Feb 23 19:32:16 2009
Flash:      Wed Sep 9 14:59:39 2009
BootProm:   1.0.14
```

List of Inter-Switch Links

```
Local Domain ID: 1

Local Port     Domain     Remote Port     State
---------------------------------------------------
----
```

List of Ports

```
switchName:     b5300-1
switchType:     64.3
switchState:    Online
switchMode:     Native
switchRole:     Principal
switchDomain:   1
switchId:       fffc01
switchWwn:      10:00:00:05:1e:ae:ec:50
zoning:         ON (ALL_DEVS)
switchBeacon:   OFF
FC Router:      OFF
Allow XISL Use: OFF
LS Attributes:  [FID: 128, Base Switch: No, Default
Switch: Yes]

Area Port Media Speed State     Proto
=====================================
  0   0   id    N8   Online           F-Port
10:00:00:00:c9:94:9b:a1
  1   1   id    N8   Online           F-Port
10:00:00:00:c9:94:9a:49
  2   2   id    N8   Online           F-Port
10:00:00:00:c9:94:90:ad
  3   3   id    N8   Online           F-Port
10:00:00:00:c9:94:9d:99
  4   4   id    N8   No_Light
  5   5   id    N8   No_Light
  6   6   id    N8   No_Light
  7   7   id    N8   No_Light
  8   8   id    N8   Online           F-Port
10:00:00:00:c9:94:99:b9
  9   9   id    N8   Online           F-Port
10:00:00:00:c9:94:99:8d
 10  10   id    N8   Online           F-Port
10:00:00:00:c9:94:99:a1
 11  11   id    N8   Online           F-Port
10:00:00:00:c9:94:99:59
 12  12   id    N8   No_Light
 13  13   id    N8   Online           F-Port
10:00:00:00:c9:94:9a:15
 14  14   id    N8   Online           F-Port
10:00:00:00:c9:94:99:81
 15  15   id    N8   Online           F-Port
10:00:00:00:c9:94:90:fd
 16  16   id    N8   Online           F-Port
10:00:00:00:c9:94:9d:75
 17  17   id    N8   Online           F-Port
10:00:00:00:c9:94:90:b5
 18  18   id    N8   Online           F-Port
10:00:00:00:c9:94:9b:15
 19  19   id    N8   Online           F-Port
10:00:00:00:c9:94:9b:31
 20  20   id    N8   Online           F-Port
10:00:00:00:c9:94:99:a9
 21  21   id    N8   Online           F-Port
10:00:00:00:c9:94:9b:11
 22  22   id    N8   Online           F-Port
10:00:00:00:c9:94:99:a5
 23  23   id    N8   Online           F-Port
10:00:00:00:c9:94:af:39
 24  24   id    N8   Online           F-Port
10:00:00:00:c9:94:9b:55
 25  25   id    N8   Online           F-Port
10:00:00:00:c9:94:9a:69
 26  26   id    N8   Online           F-Port
10:00:00:00:c9:94:91:19
 27  27   id    N8   Online           F-Port
10:00:00:00:c9:94:9a:7d
 28  28   id    N8   Online           F-Port
10:00:00:00:c9:94:9c:21
 29  29   id    N8   Online           F-Port
10:00:00:00:c9:94:90:d1
 30  30   id    N8   Online           F-Port
10:00:00:00:c9:94:90:a9
 31  31   id    N8   Online           F-Port
10:00:00:00:c9:94:90:85
 32  32   id    N8   No_Light
 33  33   id    N8   No_Light
 34  34   id    N8   No_Light
 35  35   id    N8   No_Light
 36  36   id    N8   No_Light
 37  37   id    N8   No_Light
 38  38   id    N8   No_Light
 39  39   id    N8   No_Light
 40  40   id    N8   No_Light
 41  41   id    N8   No_Light
```

```
 42  42   id    N8   No_Light
 43  43   id    N8   No_Light
 44  44   id    N8   No_Light
 45  45   id    N8   No_Light
 46  46   id    N8   No_Light
 47  47   id    N8   No_Light
 48  48   id    N8   No_Light
 49  49   id    N8   No_Light
 50  50   id    N8   Online           F-Port
21:00:00:24:ff:2f:d1:ff
 51  51   id    N8   Online           F-Port
21:00:00:24:ff:2f:d1:fe
 52  52   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:bd
 53  53   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:bc
 54  54   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:d3
 55  55   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:d2
 56  56   id    N8   Online           F-Port
21:00:00:24:ff:20:74:51
 57  57   id    N8   Online           F-Port
21:00:00:24:ff:20:74:50
 58  58   id    N8   Online           F-Port
21:00:00:24:ff:20:74:3f
 59  59   id    N8   Online           F-Port
21:00:00:24:ff:20:74:3e
 60  60   id    N8   Online           F-Port
21:01:00:1b:32:bb:88:6a
 61  61   id    N8   Online           F-Port
21:00:00:1b:32:9b:88:6a
 62  62   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:b1
 63  63   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:b0
 64  64   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:75
 65  65   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:74
 66  66   id    N8   Online           F-Port
21:00:00:24:ff:20:74:55
 67  67   id    N8   Online           F-Port
21:00:00:24:ff:20:74:54
 68  68   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:db
 69  69   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:da
 70  70   id    N8   Online           F-Port
21:01:00:1b:32:bb:57:69
 71  71   id    N8   Online           F-Port
21:00:00:1b:32:9b:57:69
 72  72   id    N8   Online           F-Port
21:00:00:24:ff:2f:d1:e1
 73  73   id    N8   Online           F-Port
21:00:00:24:ff:2f:d1:e0
 74  74   id    N8   Online           F-Port
21:01:00:1b:32:b2:4a:18
 75  75   id    N8   Online           F-Port
21:00:00:1b:32:92:4a:18
 76  76   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:ad
 77  77   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:ac
 78  78   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:d9
 79  79   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:d8
```

Name Server

```
{
010000 010100 010200 010300 010800 010900 010a00
010b00
010d00 010e00 010f00 011000 011100 011200 011300
011400
011500 011600 011700 011800 011900 011a00 011b00
011c00
011d00 011e00 011f00 013200 013300 013400 013500
013600
013700 013800 013900 013a00 013b00 013c00 013d00
013e00
013f00 014000 014100 014200 014300 014400 014500
014600
014700 014800 014900 014a00 014b00 014c00 014d00
014e00
014f00
57 Nx_Ports in the Fabric }

{
 Type Pid    COS     PortName
NodeName                   TTL(sec)
 N    010000;
3;10:00:00:00:c9:94:9b:a1;20:00:00:00:c9:94:9b:a1;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:00:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9b:a1
    Port Index: 0
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010100;
3;10:00:00:00:c9:94:9a:49;20:00:00:00:c9:94:9a:49;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:01:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9a:49
    Port Index: 1
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010200;
3;10:00:00:00:c9:94:90:ad;20:00:00:00:c9:94:90:ad;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:02:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:90:ad
    Port Index: 2
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010300;
3;10:00:00:00:c9:94:9d:99;20:00:00:00:c9:94:9d:99;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:03:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9d:99
    Port Index: 3
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010800;
3;10:00:00:00:c9:94:99:b9;20:00:00:00:c9:94:99:b9;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:08:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:99:b9
    Port Index: 8
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010900;
3;10:00:00:00:c9:94:99:8d;20:00:00:00:c9:94:99:8d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:09:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:99:8d
    Port Index: 9
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010a00;
3;10:00:00:00:c9:94:99:a1;20:00:00:00:c9:94:99:a1;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:0a:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:99:a1
    Port Index: 10
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010b00;
```

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3;10:00:00:00:c9:94:99:59;20:00:00:00:c9:94:99:59;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:0b:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:99:59
    Port Index: 11
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010d00;
3;10:00:00:00:c9:94:9a:15;20:00:00:00:c9:94:9a:15;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:0d:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9a:15
    Port Index: 13
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010e00;
3;10:00:00:00:c9:94:99:81;20:00:00:00:c9:94:99:81;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:0e:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:99:81
    Port Index: 14
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    010f00;
3;10:00:00:00:c9:94:90:fd;20:00:00:00:c9:94:90:fd;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:0f:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:90:fd
    Port Index: 15
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011000;
3;10:00:00:00:c9:94:9d:75;20:00:00:00:c9:94:9d:75;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:10:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9d:75
    Port Index: 16
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011100;
3;10:00:00:00:c9:94:90:b5;20:00:00:00:c9:94:90:b5;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:11:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:90:b5
    Port Index: 17
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011200;
3;10:00:00:00:c9:94:9b:15;20:00:00:00:c9:94:9b:15;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:12:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9b:15
    Port Index: 18
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011300;
3;10:00:00:00:c9:94:9b:31;20:00:00:00:c9:94:9b:31;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:13:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9b:31
    Port Index: 19
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011400;
3;10:00:00:00:c9:94:99:a9;20:00:00:00:c9:94:99:a9;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:14:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:99:a9
    Port Index: 20
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011500;
3;10:00:00:00:c9:94:9b:11;20:00:00:00:c9:94:9b:11;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:15:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9b:11
    Port Index: 21
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011600;
3;10:00:00:00:c9:94:99:a5;20:00:00:00:c9:94:99:a5;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:16:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:99:a5
    Port Index: 22
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011700;
3;10:00:00:00:c9:94:af:39;20:00:00:00:c9:94:af:39;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:17:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:af:39
    Port Index: 23
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011800;
3;10:00:00:00:c9:94:9b:55;20:00:00:00:c9:94:9b:55;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:18:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9b:55
    Port Index: 24
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011900;
3;10:00:00:00:c9:94:9a:69;20:00:00:00:c9:94:9a:69;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:19:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9a:69
    Port Index: 25
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011a00;
3;10:00:00:00:c9:94:91:19;20:00:00:00:c9:94:91:19;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1a:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:91:19
    Port Index: 26
    Share Area: No
```

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    Device Shared in Other AD: No
    Redirect: No
 N    011b00;
3;10:00:00:00:c9:94:9a:7d;20:00:00:00:c9:94:9a:7d;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1b:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9a:7d
    Port Index: 27
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011c00;
3;10:00:00:00:c9:94:9c:21;20:00:00:00:c9:94:9c:21;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1c:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:9c:21
    Port Index: 28
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011d00;
3;10:00:00:00:c9:94:90:d1;20:00:00:00:c9:94:90:d1;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1d:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:90:d1
    Port Index: 29
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011e00;
3;10:00:00:00:c9:94:90:a9;20:00:00:00:c9:94:90:a9;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1e:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:90:a9
    Port Index: 30
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    011f00;
3;10:00:00:00:c9:94:90:85;20:00:00:00:c9:94:90:85;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1f:00:05:1e:ae:ec:50
    Permanent Port Name: 10:00:00:00:c9:94:90:85
    Port Index: 31
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013200;
3;21:00:00:24:ff:2f:d1:ff;20:00:00:24:ff:2f:d1:ff;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo14"
    Fabric Port Name: 20:32:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:2f:d1:ff
    Port Index: 50
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013300;
3;21:00:00:24:ff:2f:d1:fe;20:00:00:24:ff:2f:d1:fe;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo14"
    Fabric Port Name: 20:33:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:2f:d1:fe
    Port Index: 51
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013400;
3;21:00:00:24:ff:20:6a:bd;20:00:00:24:ff:20:6a:bd;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo30"
    Fabric Port Name: 20:34:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:bd
    Port Index: 52
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013500;
3;21:00:00:24:ff:20:6a:bc;20:00:00:24:ff:20:6a:bc;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo30"
    Fabric Port Name: 20:35:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:bc
    Port Index: 53
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013600;
3;21:00:00:24:ff:20:6a:d3;20:00:00:24:ff:20:6a:d3;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo28"
    Fabric Port Name: 20:36:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:d3
    Port Index: 54
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013700;
3;21:00:00:24:ff:20:6a:d2;20:00:00:24:ff:20:6a:d2;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo28"
    Fabric Port Name: 20:37:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:d2
    Port Index: 55
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013800;
3;21:00:00:24:ff:20:74:51;20:00:00:24:ff:20:74:51;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo12"
    Fabric Port Name: 20:38:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:74:51
    Port Index: 56
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013900;
3;21:00:00:24:ff:20:74:50;20:00:00:24:ff:20:74:50;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo12"
    Fabric Port Name: 20:39:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:74:50
    Port Index: 57
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013a00;
3;21:00:00:24:ff:20:74:3f;20:00:00:24:ff:20:74:3f;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo10"
    Fabric Port Name: 20:3a:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:74:3f
    Port Index: 58
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013b00;
3;21:00:00:24:ff:20:74:3e;20:00:00:24:ff:20:74:3e;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo10"
    Fabric Port Name: 20:3b:00:05:1e:ae:ec:50
```

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    Permanent Port Name: 21:00:00:24:ff:20:74:3e
    Port Index: 59
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013c00;
3;21:01:00:1b:32:bb:88:6a;20:01:00:1b:32:bb:88:6a;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo26"
    Fabric Port Name: 20:3c:00:05:1e:ae:ec:50
    Permanent Port Name: 21:01:00:1b:32:bb:88:6a
    Port Index: 60
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013d00;
3;21:00:00:1b:32:9b:88:6a;20:00:00:1b:32:9b:88:6a;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo26"
    Fabric Port Name: 20:3d:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:1b:32:9b:88:6a
    Port Index: 61
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013e00;
3;21:00:00:24:ff:20:6a:b1;20:00:00:24:ff:20:6a:b1;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo24"
    Fabric Port Name: 20:3e:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:b1
    Port Index: 62
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    013f00;
3;21:00:00:24:ff:20:6a:b0;20:00:00:24:ff:20:6a:b0;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo24"
    Fabric Port Name: 20:3f:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:b0
    Port Index: 63
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014000;
3;21:00:00:24:ff:2f:d2:75;20:00:00:24:ff:2f:d2:75;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "redo8"
    Fabric Port Name: 20:40:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:2f:d2:75
    Port Index: 64
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014100;
3;21:00:00:24:ff:2f:d2:74;20:00:00:24:ff:2f:d2:74;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "redo8"
    Fabric Port Name: 20:41:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:2f:d2:74
    Port Index: 65
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014200;
3;21:00:00:24:ff:20:74:55;20:00:00:24:ff:20:74:55;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "redo6"
    Fabric Port Name: 20:42:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:74:55
    Port Index: 66
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014300;
3;21:00:00:24:ff:20:74:54;20:00:00:24:ff:20:74:54;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "redo6"
    Fabric Port Name: 20:43:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:74:54
    Port Index: 67
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014400;
3;21:00:00:24:ff:20:6a:db;20:00:00:24:ff:20:6a:db;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo22"
    Fabric Port Name: 20:44:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:db
    Port Index: 68
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014500;
3;21:00:00:24:ff:20:6a:da;20:00:00:24:ff:20:6a:da;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo22"
    Fabric Port Name: 20:45:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:da
    Port Index: 69
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014600;
3;21:01:00:1b:32:bb:57:69;20:01:00:1b:32:bb:57:69;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo20"
    Fabric Port Name: 20:46:00:05:1e:ae:ec:50
    Permanent Port Name: 21:01:00:1b:32:bb:57:69
    Port Index: 70
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014700;
3;21:00:00:1b:32:9b:57:69;20:00:00:1b:32:9b:57:69;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo20"
    Fabric Port Name: 20:47:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:1b:32:9b:57:69
    Port Index: 71
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014800;
3;21:00:00:24:ff:2f:d1:e1;20:00:00:24:ff:2f:d1:e1;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "redo4"
    Fabric Port Name: 20:48:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:2f:d1:e1
    Port Index: 72
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014900;
3;21:00:00:24:ff:2f:d1:e0;20:00:00:24:ff:2f:d1:e0;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "redo4"
    Fabric Port Name: 20:49:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:2f:d1:e0
    Port Index: 73
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014a00;
3;21:01:00:1b:32:b2:4a:18;20:01:00:1b:32:b2:4a:18;
na
    FC4s: FCP
```

```
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "redo2"
    Fabric Port Name: 20:4a:00:05:1e:ae:ec:50
    Permanent Port Name: 21:01:00:1b:32:b2:4a:18
    Port Index: 74
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014b00;
3;21:00:00:1b:32:92:4a:18;20:00:00:1b:32:92:4a:18;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "redo2"
    Fabric Port Name: 20:4b:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:1b:32:92:4a:18
    Port Index: 75
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014c00;
3;21:00:00:24:ff:20:6a:ad;20:00:00:24:ff:20:6a:ad;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo18"
    Fabric Port Name: 20:4c:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:ad
    Port Index: 76
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014d00;
3;21:00:00:24:ff:20:6a:ac;20:00:00:24:ff:20:6a:ac;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo18"
    Fabric Port Name: 20:4d:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:ac
    Port Index: 77
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014e00;
3;21:00:00:24:ff:20:6a:d9;20:00:00:24:ff:20:6a:d9;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo16"
    Fabric Port Name: 20:4e:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:d9
    Port Index: 78
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    014f00;
3;21:00:00:24:ff:20:6a:d8;20:00:00:24:ff:20:6a:d8;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo16"
    Fabric Port Name: 20:4f:00:05:1e:ae:ec:50
    Permanent Port Name: 21:00:00:24:ff:20:6a:d8
    Port Index: 79
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
The Local Name Server has 57 entries }
```

Zoning Information

```
Defined configuration:
 cfg:   ALL_DEVS
                All_ports
 zone:  All_ports
                1,0; 1,1; 1,2; 1,3; 1,4; 1,5; 1,6;
1,7; 1,8; 1,9; 1,10; 1,11;
                1,12; 1,13; 1,14; 1,15; 1,16; 1,17;
1,18; 1,19; 1,20; 1,21;
                1,22; 1,23; 1,24; 1,25; 1,26; 1,27;
1,28; 1,29; 1,30; 1,31;
                1,32; 1,33; 1,34; 1,35; 1,36; 1,37;
1,38; 1,39; 1,40; 1,41;
                1,42; 1,43; 1,44; 1,45; 1,46; 1,47;
1,48; 1,49; 1,50; 1,51;
                1,52; 1,53; 1,54; 1,55; 1,56; 1,57;
1,58; 1,59; 1,60; 1,61;
                1,62; 1,63; 1,64; 1,65; 1,66; 1,67;
1,68; 1,69; 1,70; 1,71;
                1,72; 1,73; 1,74; 1,75; 1,76; 1,77;
1,78; 1,79
 zone:  Four_node_A
                1,16; 1,18; 1,19; 1,24; 1,72; 1,73;
1,74; 1,75
 zone:  Four_node_AB
                1,16; 1,18; 1,19; 1,24; 1,28; 1,29;
1,30; 1,31; 1,64; 1,65;
                1,66; 1,67; 1,72; 1,73; 1,74; 1,75
 zone:  Four_node_AE
                1,0; 1,1; 1,2; 1,3; 1,16; 1,18;
1,19; 1,24; 1,50; 1,51; 1,72;
                1,73; 1,74; 1,75
 zone:  Four_node_B
                1,28; 1,29; 1,30; 1,31; 1,64; 1,65;
1,66; 1,67
 zone:  Four_node_BC
                1,20; 1,21; 1,22; 1,23; 1,28; 1,29;
1,30; 1,31; 1,56; 1,57;
                1,58; 1,59; 1,64; 1,65; 1,66; 1,67
 zone:  Four_node_C
                1,20; 1,21; 1,22; 1,23; 1,56; 1,57;
1,58; 1,59
 zone:  Four_node_E
                1,0; 1,1; 1,2; 1,3; 1,50; 1,51

Effective configuration:
 cfg:   ALL_DEVS
```

```
zone:  All_ports
               1,0
               1,1
               1,2
               1,3
               1,4
               1,5
               1,6
               1,7
               1,8
               1,9
               1,10
               1,11
               1,12
               1,13
               1,14
               1,15
               1,16
               1,17
               1,18
               1,19
               1,20
               1,21
               1,22
               1,23
               1,24
               1,25
               1,26
               1,27
               1,28
               1,29
               1,30
               1,31
               1,32
               1,33
               1,34
               1,35
               1,36
               1,37
               1,38
               1,39
               1,40
               1,41
               1,42
               1,43
               1,44
               1,45
               1,46
               1,47
               1,48
               1,49
               1,50
               1,51
               1,52
               1,53
               1,54
               1,55
               1,56
               1,57
```

```
                1,58
                1,59
                1,60
                1,61
                1,62
                1,63
                1,64
                1,65
                1,66
                1,67
                1,68
                1,69
                1,70
                1,71
                1,72
                1,73
                1,74
                1,75
                1,76
                1,77
                1,78
                1,79
```

SFP Serial ID Information

```
Port  0: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J76  Speed: 200,400,800_MB/s
Port  1: id (sw) Vendor: BROCADE          Serial
No: UAF109350000K2A  Speed: 200,400,800_MB/s
Port  2: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HPZ  Speed: 200,400,800_MB/s
Port  3: id (sw) Vendor: BROCADE          Serial
No: UAF109350000K2E  Speed: 200,400,800_MB/s
Port  4: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J8C  Speed: 200,400,800_MB/s
Port  5: id (sw) Vendor: BROCADE          Serial
No: UAF109350000EN6  Speed: 200,400,800_MB/s
Port  6: id (sw) Vendor: BROCADE          Serial
No: UAF109350000JM2  Speed: 200,400,800_MB/s
Port  7: id (sw) Vendor: BROCADE          Serial
No: UAF1093500006TA  Speed: 200,400,800_MB/s
Port  8: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FPG  Speed: 200,400,800_MB/s
Port  9: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FRR  Speed: 200,400,800_MB/s
Port 10: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HR6  Speed: 200,400,800_MB/s
Port 11: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J6P  Speed: 200,400,800_MB/s
Port 12: id (sw) Vendor: BROCADE          Serial
No: UAF1093500006TP  Speed: 200,400,800_MB/s
Port 13: id (sw) Vendor: BROCADE          Serial
No: UAF1093500006TG  Speed: 200,400,800_MB/s
Port 14: id (sw) Vendor: BROCADE          Serial
No: UAF1093500002U4  Speed: 200,400,800_MB/s
Port 15: id (sw) Vendor: BROCADE          Serial
No: UAF1093500006TM  Speed: 200,400,800_MB/s
Port 16: id (sw) Vendor: BROCADE          Serial
No: UAF1093500003LV  Speed: 200,400,800_MB/s
Port 17: id (sw) Vendor: BROCADE          Serial
No: UAF109350000K81  Speed: 200,400,800_MB/s
Port 18: id (sw) Vendor: BROCADE          Serial
No: UAF109350000JZ9  Speed: 200,400,800_MB/s
Port 19: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J94  Speed: 200,400,800_MB/s
Port 20: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HS7  Speed: 200,400,800_MB/s
Port 21: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HPT  Speed: 200,400,800_MB/s
Port 22: id (sw) Vendor: BROCADE          Serial
No: UAF109350000JZC  Speed: 200,400,800_MB/s
Port 23: id (sw) Vendor: BROCADE          Serial
No: UAF109350000JNR  Speed: 200,400,800_MB/s
Port 24: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J8R  Speed: 200,400,800_MB/s
Port 25: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HRN  Speed: 200,400,800_MB/s
Port 26: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J87  Speed: 200,400,800_MB/s
Port 27: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J82  Speed: 200,400,800_MB/s
Port 28: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J6W  Speed: 200,400,800_MB/s
Port 29: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J6T  Speed: 200,400,800_MB/s
Port 30: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HP8  Speed: 200,400,800_MB/s
Port 31: id (sw) Vendor: BROCADE          Serial
No: UAF109350000K49  Speed: 200,400,800_MB/s
Port 32: id (sw) Vendor: BROCADE          Serial
No: UAF109350000F8N  Speed: 200,400,800_MB/s
Port 33: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FSU  Speed: 200,400,800_MB/s
Port 34: id (sw) Vendor: BROCADE          Serial
No: UAF109350000DV8  Speed: 200,400,800_MB/s
Port 35: id (sw) Vendor: BROCADE          Serial
No: UAF109350000DVV  Speed: 200,400,800_MB/s
Port 36: id (sw) Vendor: BROCADE          Serial
No: UAF109350000GDB  Speed: 200,400,800_MB/s
Port 37: id (sw) Vendor: BROCADE          Serial
No: UAF109350000F72  Speed: 200,400,800_MB/s
Port 38: id (sw) Vendor: BROCADE          Serial
No: UAF109340000LS2  Speed: 200,400,800_MB/s
Port 39: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HJ4  Speed: 200,400,800_MB/s
Port 40: id (sw) Vendor: BROCADE          Serial
No: UAF109350000CSD  Speed: 200,400,800_MB/s
Port 41: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HHT  Speed: 200,400,800_MB/s
Port 42: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HHM  Speed: 200,400,800_MB/s
Port 43: id (sw) Vendor: BROCADE          Serial
No: UAF109350000GBM  Speed: 200,400,800_MB/s
Port 44: id (sw) Vendor: BROCADE          Serial
No: UAF109350000GDP  Speed: 200,400,800_MB/s
Port 45: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FKD  Speed: 200,400,800_MB/s
Port 46: id (sw) Vendor: BROCADE          Serial
No: UAF109340000MPR  Speed: 200,400,800_MB/s
Port 47: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FL9  Speed: 200,400,800_MB/s
Port 48: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J7R  Speed: 200,400,800_MB/s
Port 49: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J8N  Speed: 200,400,800_MB/s
Port 50: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J91  Speed: 200,400,800_MB/s
Port 51: id (sw) Vendor: BROCADE          Serial
No: UAF1093500006U2  Speed: 200,400,800_MB/s
Port 52: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J72  Speed: 200,400,800_MB/s
Port 53: id (sw) Vendor: BROCADE          Serial
No: UAF109350000EN4  Speed: 200,400,800_MB/s
Port 54: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HSE  Speed: 200,400,800_MB/s
Port 55: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FPW  Speed: 200,400,800_MB/s
Port 56: id (sw) Vendor: BROCADE          Serial
No: UAF109350000K4B  Speed: 200,400,800_MB/s
Port 57: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J33  Speed: 200,400,800_MB/s
Port 58: id (sw) Vendor: BROCADE          Serial
No: UAF109350000J8F  Speed: 200,400,800_MB/s
Port 59: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FSA  Speed: 200,400,800_MB/s
Port 60: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HP1  Speed: 200,400,800_MB/s
Port 61: id (sw) Vendor: BROCADE          Serial
No: UAF109350000ENU  Speed: 200,400,800_MB/s
Port 62: id (sw) Vendor: BROCADE          Serial
No: UAF109350000K54  Speed: 200,400,800_MB/s
Port 63: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HPG  Speed: 200,400,800_MB/s
Port 64: id (sw) Vendor: BROCADE          Serial
No: UAF109350000K2Z  Speed: 200,400,800_MB/s
Port 65: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FS2  Speed: 200,400,800_MB/s
Port 66: id (sw) Vendor: BROCADE          Serial
No: UAF109350000EMZ  Speed: 200,400,800_MB/s
Port 67: id (sw) Vendor: BROCADE          Serial
No: UAF109350000JMF  Speed: 200,400,800_MB/s
Port 68: id (sw) Vendor: BROCADE          Serial
No: UAF109350000K3A  Speed: 200,400,800_MB/s
Port 69: id (sw) Vendor: BROCADE          Serial
No: UAF109350000JPW  Speed: 200,400,800_MB/s
Port 70: id (sw) Vendor: BROCADE          Serial
No: UAF109350000ENE  Speed: 200,400,800_MB/s
Port 71: id (sw) Vendor: BROCADE          Serial
No: UAF109350000JKF  Speed: 200,400,800_MB/s
Port 72: id (sw) Vendor: BROCADE          Serial
No: UAF1093500001N7  Speed: 200,400,800_MB/s
Port 73: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FRN  Speed: 200,400,800_MB/s
Port 74: id (sw) Vendor: BROCADE          Serial
No: UAF1093500002YZ  Speed: 200,400,800_MB/s
Port 75: id (sw) Vendor: BROCADE          Serial
```

```
No: UAF1093500003E7  Speed: 200,400,800_MB/s
Port 76: id (sw) Vendor: BROCADE          Serial
No: UAF1093500003E5  Speed: 200,400,800_MB/s
Port 77: id (sw) Vendor: BROCADE          Serial
No: UAF109350000JNJ  Speed: 200,400,800_MB/s
Port 78: id (sw) Vendor: BROCADE          Serial
No: UAF109350000FS3  Speed: 200,400,800_MB/s
Port 79: id (sw) Vendor: BROCADE          Serial
No: UAF109350000HK9  Speed: 200,400,800_MB/s
```

Brocade 5300-2 – REDO Log

Switch Information Report for b5300-2

List of Switches

```
Switch ID   Worldwide Name           Enet IP Addr
FC IP Addr      Name
---------------------------------------------------
----------------------
  3: fffc03 10:00:00:05:1e:9a:8e:be 10.196.0.101
0.0.0.0        >"b5300-2"
```

Current Switch Information

```
Ethernet IP Address: 10.196.0.101
Ethernet Subnetmask: 255.255.0.0
Fibre Channel IP Address: 0.0.0.0
Fibre Channel Subnetmask: 0.0.0.0
Gateway Address: 10.196.0.1
Ethernet IPv6 Addresses:

Kernel:     2.6.14.2
Fabric OS:  v6.2.0c
Made on:    Mon Feb 23 19:32:16 2009
Flash:      Thu May 7 13:14:02 2009
BootProm:   1.0.14
```

List of Inter-Switch Links

```
Local Domain ID: 3

Local Port     Domain     Remote Port     State
---------------------------------------------------
----
```

List of Ports

```
switchName:     b5300-2
switchType:     64.3
switchState:    Online
switchMode:     Native
switchRole:     Principal
switchDomain:   3
switchId:       fffc03
switchWwn:      10:00:00:05:1e:9a:8e:be
zoning:         ON (All_devs)
switchBeacon:   OFF
FC Router:      OFF
Allow XISL Use: OFF
LS Attributes:  [FID: 128, Base Switch: No, Default
Switch: Yes]

Area Port Media Speed State     Proto
=====================================
  0   0   id    N8   Online           F-Port
10:00:00:00:c9:94:9b:a0
  1   1   id    N8   Online           F-Port
10:00:00:00:c9:94:9a:48
  2   2   id    N8   Online           F-Port
10:00:00:00:c9:94:90:ac
  3   3   id    N8   Online           F-Port
10:00:00:00:c9:94:9d:98
  4   4   id    N8   No_Light
  5   5   id    N8   No_Light
  6   6   id    N8   No_Light
  7   7   id    N8   No_Light
  8   8   id    N8   Online           F-Port
10:00:00:00:c9:94:99:b8
  9   9   id    N8   Online           F-Port
10:00:00:00:c9:94:99:8c
 10  10   id    N8   Online           F-Port
10:00:00:00:c9:94:99:a0
 11  11   id    N8   Online           F-Port
10:00:00:00:c9:94:99:58
 12  12   id    N8   No_Light
 13  13   id    N8   Online           F-Port
10:00:00:00:c9:94:9a:14
 14  14   id    N8   Online           F-Port
10:00:00:00:c9:94:99:80
 15  15   id    N8   Online           F-Port
10:00:00:00:c9:94:90:fc
 16  16   id    N8   Online           F-Port
10:00:00:00:c9:94:9d:74
 17  17   id    N8   Online           F-Port
10:00:00:00:c9:94:90:b4
 18  18   id    N8   Online           F-Port
10:00:00:00:c9:94:9b:14
 19  19   id    N8   Online           F-Port
10:00:00:00:c9:94:91:14
 20  20   id    N8   Online           F-Port
10:00:00:00:c9:94:99:a8
 21  21   id    N8   Online           F-Port
10:00:00:00:c9:94:9b:10
 22  22   id    N8   Online           F-Port
10:00:00:00:c9:94:99:a4
 23  23   id    N8   Online           F-Port
10:00:00:00:c9:94:af:38
 24  24   id    N8   Online           F-Port
10:00:00:00:c9:94:9b:54
 25  25   id    N8   Online           F-Port
10:00:00:00:c9:94:9a:68
 26  26   id    N8   Online           F-Port
10:00:00:00:c9:94:91:18
 27  27   id    N8   Online           F-Port
10:00:00:00:c9:94:9a:7c
 28  28   id    N8   Online           F-Port
10:00:00:00:c9:94:9c:20
 29  29   id    N8   Online           F-Port
10:00:00:00:c9:94:90:d0
 30  30   id    N8   Online           F-Port
10:00:00:00:c9:94:90:a8
 31  31   id    N8   Online           F-Port
10:00:00:00:c9:94:90:84
 32  32   id    N8   No_Light
 33  33   id    N8   No_Light
 34  34   id    N8   No_Light
 35  35   id    N8   No_Light
 36  36   id    N8   No_Light
 37  37   id    N8   No_Light
 38  38   id    N8   No_Light
 39  39   id    N8   No_Light
 40  40   id    N8   No_Light
 41  41   id    N8   No_Light
 42  42   id    N8   No_Light
 43  43   id    N8   No_Light
 44  44   id    N8   No_Light
 45  45   id    N8   No_Light
 46  46   id    N8   No_Light
 47  47   id    N8   No_Light
 48  48   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:a1
 49  49   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:a0
 50  50   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:73
 51  51   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:72
 52  52   id    N8   No_Light
 53  53   id    N8   No_Light
 54  54   id    N8   No_Light
 55  55   id    N8   No_Light
 56  56   id    N8   Online           F-Port
21:00:00:24:ff:2f:d3:31
 57  57   id    N8   Online           F-Port
21:00:00:24:ff:2f:d3:30
 58  58   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:69
 59  59   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:68
 60  60   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:af
 61  61   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:ae
 62  62   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:c7
 63  63   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:c6
 64  64   id    N8   Online           F-Port
21:00:00:24:ff:2f:d1:f9
```

```
 65  65   id    N8   Online           F-Port
21:00:00:24:ff:2f:d1:f8
 66  66   id    N8   Online           F-Port
21:00:00:24:ff:20:74:1f
 67  67   id    N8   Online           F-Port
21:00:00:24:ff:20:74:1e
 68  68   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:cb
 69  69   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:ca
 70  70   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:e3
 71  71   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:e2
 72  72   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:43
 73  73   id    N8   Online           F-Port
21:00:00:24:ff:2f:d2:42
 74  74   id    N8   Online           F-Port
21:00:00:24:ff:2f:d1:bf
 75  75   id    N8   Online           F-Port
21:00:00:24:ff:2f:d1:be
 76  76   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:b3
 77  77   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:b2
 78  78   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:ab
 79  79   id    N8   Online           F-Port
21:00:00:24:ff:20:6a:aa
```

Name Server

```
{
030000 030100 030200 030300 030800 030900 030a00
030b00
030d00 030e00 030f00 031000 031100 031200 031300
031400
031500 031600 031700 031800 031900 031a00 031b00
031c00
031d00 031e00 031f00 033000 033100 033200 033300
033800
033900 033a00 033b00 033c00 033d00 033e00 033f00
034000
034100 034200 034300 034400 034500 034600 034700
034800
034900 034a00 034b00 034c00 034d00 034e00 034f00
55 Nx_Ports in the Fabric }

{
 Type Pid    COS     PortName
NodeName                 TTL(sec)
 N    030000;
3;10:00:00:00:c9:94:9b:a0;20:00:00:00:c9:94:9b:a0;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:00:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9b:a0
    Port Index: 0
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030100;
3;10:00:00:00:c9:94:9a:48;20:00:00:00:c9:94:9a:48;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:01:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9a:48
    Port Index: 1
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030200;
3;10:00:00:00:c9:94:90:ac;20:00:00:00:c9:94:90:ac;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:02:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:90:ac
    Port Index: 2
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030300;
3;10:00:00:00:c9:94:9d:98;20:00:00:00:c9:94:9d:98;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:03:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9d:98
    Port Index: 3
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030800;
3;10:00:00:00:c9:94:99:b8;20:00:00:00:c9:94:99:b8;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:08:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:99:b8
    Port Index: 8
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030900;
3;10:00:00:00:c9:94:99:8c;20:00:00:00:c9:94:99:8c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:09:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:99:8c
    Port Index: 9
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030a00;
3;10:00:00:00:c9:94:99:a0;20:00:00:00:c9:94:99:a0;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:0a:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:99:a0
    Port Index: 10
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030b00;
3;10:00:00:00:c9:94:99:58;20:00:00:00:c9:94:99:58;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:0b:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:99:58
    Port Index: 11
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030d00;
3;10:00:00:00:c9:94:9a:14;20:00:00:00:c9:94:9a:14;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:0d:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9a:14
    Port Index: 13
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030e00;
3;10:00:00:00:c9:94:99:80;20:00:00:00:c9:94:99:80;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:0e:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:99:80
    Port Index: 14
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    030f00;
3;10:00:00:00:c9:94:90:fc;20:00:00:00:c9:94:90:fc;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
```

```
DVpr11 "
    Fabric Port Name: 20:0f:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:90:fc
    Port Index: 15
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031000;
3;10:00:00:00:c9:94:9d:74;20:00:00:00:c9:94:9d:74;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:10:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9d:74
    Port Index: 16
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031100;
3;10:00:00:00:c9:94:90:b4;20:00:00:00:c9:94:90:b4;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:11:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:90:b4
    Port Index: 17
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031200;
3;10:00:00:00:c9:94:9b:14;20:00:00:00:c9:94:9b:14;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:12:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9b:14
    Port Index: 18
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031300;
3;10:00:00:00:c9:94:91:14;20:00:00:00:c9:94:91:14;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:13:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:91:14
    Port Index: 19
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031400;
3;10:00:00:00:c9:94:99:a8;20:00:00:00:c9:94:99:a8;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:14:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:99:a8
    Port Index: 20
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031500;
3;10:00:00:00:c9:94:9b:10;20:00:00:00:c9:94:9b:10;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:15:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9b:10
    Port Index: 21
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031600;
3;10:00:00:00:c9:94:99:a4;20:00:00:00:c9:94:99:a4;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:16:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:99:a4
    Port Index: 22
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031700;
3;10:00:00:00:c9:94:af:38;20:00:00:00:c9:94:af:38;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:17:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:af:38
    Port Index: 23
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031800;
3;10:00:00:00:c9:94:9b:54;20:00:00:00:c9:94:9b:54;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:18:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9b:54
    Port Index: 24
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031900;
3;10:00:00:00:c9:94:9a:68;20:00:00:00:c9:94:9a:68;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:19:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9a:68
    Port Index: 25
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031a00;
3;10:00:00:00:c9:94:91:18;20:00:00:00:c9:94:91:18;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1a:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:91:18
    Port Index: 26
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031b00;
3;10:00:00:00:c9:94:9a:7c;20:00:00:00:c9:94:9a:7c;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1b:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9a:7c
    Port Index: 27
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031c00;
3;10:00:00:00:c9:94:9c:20;20:00:00:00:c9:94:9c:20;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1c:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:9c:20
    Port Index: 28
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031d00;
3;10:00:00:00:c9:94:90:d0;20:00:00:00:c9:94:90:d0;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1d:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:90:d0
    Port Index: 29
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031e00;
3;10:00:00:00:c9:94:90:a8;20:00:00:00:c9:94:90:a8;
```

```
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1e:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:90:a8
    Port Index: 30
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    031f00;
3;10:00:00:00:c9:94:90:84;20:00:00:00:c9:94:90:84;
na
    FC4s: IPFC FCP
    NodeSymb: [36] "Emulex LPem12002E-S FV1.11a5
DVpr11 "
    Fabric Port Name: 20:1f:00:05:1e:9a:8e:be
    Permanent Port Name: 10:00:00:00:c9:94:90:84
    Port Index: 31
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033000;
3;21:00:00:24:ff:2f:d2:a1;20:00:00:24:ff:2f:d2:a1;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo15"
    Fabric Port Name: 20:30:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d2:a1
    Port Index: 48
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033100;
3;21:00:00:24:ff:2f:d2:a0;20:00:00:24:ff:2f:d2:a0;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo15"
    Fabric Port Name: 20:31:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d2:a0
    Port Index: 49
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033200;
3;21:00:00:24:ff:2f:d2:73;20:00:00:24:ff:2f:d2:73;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo13"
    Fabric Port Name: 20:32:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d2:73
    Port Index: 50
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033300;
3;21:00:00:24:ff:2f:d2:72;20:00:00:24:ff:2f:d2:72;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo13"
    Fabric Port Name: 20:33:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d2:72
    Port Index: 51
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033800;
3;21:00:00:24:ff:2f:d3:31;20:00:00:24:ff:2f:d3:31;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo11"
    Fabric Port Name: 20:38:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d3:31
    Port Index: 56
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033900;
3;21:00:00:24:ff:2f:d3:30;20:00:00:24:ff:2f:d3:30;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo11"
    Fabric Port Name: 20:39:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d3:30
    Port Index: 57
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033a00;
3;21:00:00:24:ff:2f:d2:69;20:00:00:24:ff:2f:d2:69;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "redo9"
    Fabric Port Name: 20:3a:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d2:69
    Port Index: 58
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033b00;
3;21:00:00:24:ff:2f:d2:68;20:00:00:24:ff:2f:d2:68;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "redo9"
    Fabric Port Name: 20:3b:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d2:68
    Port Index: 59
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033c00;
3;21:00:00:24:ff:20:6a:af;20:00:00:24:ff:20:6a:af;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo27"
    Fabric Port Name: 20:3c:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:af
    Port Index: 60
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033d00;
3;21:00:00:24:ff:20:6a:ae;20:00:00:24:ff:20:6a:ae;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo27"
    Fabric Port Name: 20:3d:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:ae
    Port Index: 61
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033e00;
3;21:00:00:24:ff:20:6a:c7;20:00:00:24:ff:20:6a:c7;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo25"
    Fabric Port Name: 20:3e:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:c7
    Port Index: 62
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    033f00;
3;21:00:00:24:ff:20:6a:c6;20:00:00:24:ff:20:6a:c6;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo25"
    Fabric Port Name: 20:3f:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:c6
    Port Index: 63
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034000;
3;21:00:00:24:ff:2f:d1:f9;20:00:00:24:ff:2f:d1:f9;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "redo7"
    Fabric Port Name: 20:40:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f9
    Port Index: 64
    Share Area: No
    Device Shared in Other AD: No
```

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    Redirect: No
 N    034100;
3;21:00:00:24:ff:2f:d1:f8;20:00:00:24:ff:2f:d1:f8;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "redo7"
    Fabric Port Name: 20:41:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d1:f8
    Port Index: 65
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034200;
3;21:00:00:24:ff:20:74:1f;20:00:00:24:ff:20:74:1f;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "redo5"
    Fabric Port Name: 20:42:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:74:1f
    Port Index: 66
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034300;
3;21:00:00:24:ff:20:74:1e;20:00:00:24:ff:20:74:1e;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "redo5"
    Fabric Port Name: 20:43:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:74:1e
    Port Index: 67
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034400;
3;21:00:00:24:ff:20:6a:cb;20:00:00:24:ff:20:6a:cb;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo23"
    Fabric Port Name: 20:44:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:cb
    Port Index: 68
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034500;
3;21:00:00:24:ff:20:6a:ca;20:00:00:24:ff:20:6a:ca;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo23"
    Fabric Port Name: 20:45:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:ca
    Port Index: 69
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034600;
3;21:00:00:24:ff:20:6a:e3;20:00:00:24:ff:20:6a:e3;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo21"
    Fabric Port Name: 20:46:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:e3
    Port Index: 70
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034700;
3;21:00:00:24:ff:20:6a:e2;20:00:00:24:ff:20:6a:e2;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo21"
    Fabric Port Name: 20:47:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:e2
    Port Index: 71
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034800;
3;21:00:00:24:ff:2f:d2:43;20:00:00:24:ff:2f:d2:43;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "redo3"
    Fabric Port Name: 20:48:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d2:43
    Port Index: 72
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034900;
3;21:00:00:24:ff:2f:d2:42;20:00:00:24:ff:2f:d2:42;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "redo3"
    Fabric Port Name: 20:49:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d2:42
    Port Index: 73
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034a00;
3;21:00:00:24:ff:2f:d1:bf;20:00:00:24:ff:2f:d1:bf;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [5] "redo1"
    Fabric Port Name: 20:4a:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d1:bf
    Port Index: 74
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034b00;
3;21:00:00:24:ff:2f:d1:be;20:00:00:24:ff:2f:d1:be;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [5] "redo1"
    Fabric Port Name: 20:4b:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:2f:d1:be
    Port Index: 75
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034c00;
3;21:00:00:24:ff:20:6a:b3;20:00:00:24:ff:20:6a:b3;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo19"
    Fabric Port Name: 20:4c:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:b3
    Port Index: 76
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034d00;
3;21:00:00:24:ff:20:6a:b2;20:00:00:24:ff:20:6a:b2;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo19"
    Fabric Port Name: 20:4d:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:b2
    Port Index: 77
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034e00;
3;21:00:00:24:ff:20:6a:ab;20:00:00:24:ff:20:6a:ab;
na
    FC4s: FCP
    PortSymb: [6] "qlt1,0"
    NodeSymb: [6] "redo17"
    Fabric Port Name: 20:4e:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:ab
    Port Index: 78
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
 N    034f00;
3;21:00:00:24:ff:20:6a:aa;20:00:00:24:ff:20:6a:aa;
na
    FC4s: FCP
    PortSymb: [6] "qlt0,0"
    NodeSymb: [6] "redo17"
    Fabric Port Name: 20:4f:00:05:1e:9a:8e:be
    Permanent Port Name: 21:00:00:24:ff:20:6a:aa
```

```
    Port Index: 79
    Share Area: No
    Device Shared in Other AD: No
    Redirect: No
The Local Name Server has 55 entries }
```

Zoning Information

```
Defined configuration:
 cfg:   All_devs
                All_ports
 cfg:   COMSTAR_1stZONE_LOGS_2ndZone
                Four_node_A
 zone:  All_ports
                3,0; 3,1; 3,2; 3,3; 3,4; 3,5; 3,6;
3,7; 3,8; 3,9; 3,10; 3,11;
                3,12; 3,13; 3,14; 3,15; 3,16; 3,17;
3,18; 3,19; 3,20; 3,21;
                3,22; 3,23; 3,24; 3,25; 3,26; 3,27;
3,28; 3,29; 3,30; 3,31;
                3,32; 3,33; 3,34; 3,35; 3,36; 3,37;
3,38; 3,39; 3,40; 3,41;
                3,42; 3,43; 3,44; 3,45; 3,46; 3,47;
3,48; 3,49; 3,50; 3,51;
                3,52; 3,53; 3,54; 3,55; 3,56; 3,57;
3,58; 3,59; 3,60; 3,61;
                3,62; 3,63; 3,64; 3,65; 3,66; 3,67;
3,68; 3,69; 3,70; 3,71;
                3,72; 3,73; 3,74; 3,75; 3,76; 3,77;
3,78; 3,79
 zone:  Four_node_A
                3,16; 3,18; 3,19; 3,24; 3,72; 3,73;
3,74; 3,75
 zone:  Four_node_AB
                3,16; 3,18; 3,19; 3,24; 3,28; 3,29;
3,30; 3,31; 3,64; 3,65;
                3,66; 3,67; 3,72; 3,73; 3,74; 3,75
 zone:  Four_node_AE
                3,0; 3,1; 3,2; 3,3; 3,16; 3,18;
3,19; 3,24; 3,50; 3,51; 3,72;
                3,73; 3,74; 3,75
 zone:  Four_node_B
                3,28; 3,29; 3,30; 3,31; 3,64; 3,65;
3,66; 3,67
 zone:  Four_node_BC
                3,20; 3,21; 3,22; 3,23; 3,28; 3,29;
3,30; 3,31; 3,56; 3,57;
                3,58; 3,59; 3,64; 3,65; 3,66; 3,67
 zone:  Four_node_E
                3,0; 3,1; 3,2; 3,3; 3,50; 3,51
 zone:  four_node_C
                3,20; 3,21; 3,22; 3,23; 3,56; 3,57;
3,58; 3,59

Effective configuration:
 cfg:   All_devs
 zone:  All_ports
                3,0
                3,1
                3,2
                3,3
                3,4
                3,5
                3,6
                3,7
                3,8
                3,9
                3,10
                3,11
                3,12
                3,13
                3,14
                3,15
                3,16
                3,17
                3,18
                3,19
                3,20
                3,21
                3,22
                3,23
                3,24
                3,25
                3,26
                3,27
                3,28
                3,29
                3,30
                3,31
                3,32
                3,33
                3,34
                3,35
                3,36
                3,37
                3,38
                3,39
                3,40
                3,41
                3,42
                3,43
                3,44
                3,45
                3,46
                3,47
                3,48
                3,49
                3,50
                3,51
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                3,53
                3,54
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                3,56
                3,57
                3,58
                3,59
                3,60
                3,61
                3,62
                3,63
                3,64
                3,65
                3,66
                3,67
                3,68
                3,69
                3,70
                3,71
                3,72
                3,73
                3,74
                3,75
                3,76
                3,77
                3,78
                3,79
```

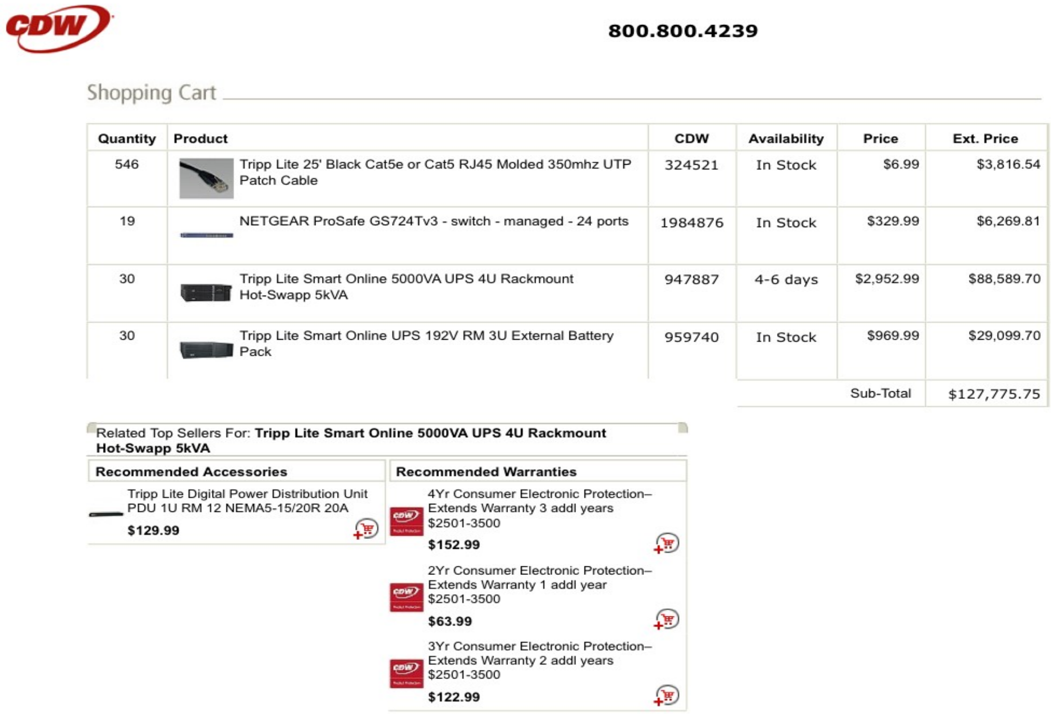
SFP Serial ID Information

```
Port  0: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BFH  Speed: 200,400,800_MB/s
Port  1: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BER  Speed: 200,400,800_MB/s
Port  2: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BEV  Speed: 200,400,800_MB/s
Port  3: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BEN  Speed: 200,400,800_MB/s
Port  4: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BFN  Speed: 200,400,800_MB/s
Port  5: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BFR  Speed: 200,400,800_MB/s
Port  6: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BFC  Speed: 200,400,800_MB/s
Port  7: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BEU  Speed: 200,400,800_MB/s
Port  8: id (sw) Vendor: BROCADE          Serial
No: UAF1091100004HV  Speed: 200,400,800_MB/s
Port  9: id (sw) Vendor: BROCADE          Serial
No: UAF1091100002FU  Speed: 200,400,800_MB/s
Port 10: id (sw) Vendor: BROCADE          Serial
No: UAF109100000A3T  Speed: 200,400,800_MB/s
Port 11: id (sw) Vendor: BROCADE          Serial
No: UAF10911000058P  Speed: 200,400,800_MB/s
Port 12: id (sw) Vendor: BROCADE          Serial
No: UAF109100000AN3  Speed: 200,400,800_MB/s
Port 13: id (sw) Vendor: BROCADE          Serial
No: UAF109100000A2R  Speed: 200,400,800_MB/s
Port 14: id (sw) Vendor: BROCADE          Serial
No: UAF109100000AMM  Speed: 200,400,800_MB/s
Port 15: id (sw) Vendor: BROCADE          Serial
No: UAF109100000AKZ  Speed: 200,400,800_MB/s
Port 16: id (sw) Vendor: BROCADE          Serial
No: UAF109100000ADF  Speed: 200,400,800_MB/s
Port 17: id (sw) Vendor: BROCADE          Serial
No: UAF109110000154  Speed: 200,400,800_MB/s
```

```
Port 18: id (sw) Vendor: BROCADE          Serial
No: UAF109100000ABS  Speed: 200,400,800_MB/s
Port 19: id (sw) Vendor: BROCADE          Serial
No: UAF109100000AKL  Speed: 200,400,800_MB/s
Port 20: id (sw) Vendor: BROCADE          Serial
No: UAF10911000015M  Speed: 200,400,800_MB/s
Port 21: id (sw) Vendor: BROCADE          Serial
No: UAF109100000B89  Speed: 200,400,800_MB/s
Port 22: id (sw) Vendor: BROCADE          Serial
No: UAF109110000159  Speed: 200,400,800_MB/s
Port 23: id (sw) Vendor: BROCADE          Serial
No: UAF109100000AND  Speed: 200,400,800_MB/s
Port 24: id (sw) Vendor: BROCADE          Serial
No: UAF109100000APW  Speed: 200,400,800_MB/s
Port 25: id (sw) Vendor: BROCADE          Serial
No: UAF109100000ADK  Speed: 200,400,800_MB/s
Port 26: id (sw) Vendor: BROCADE          Serial
No: UAF109100000A3P  Speed: 200,400,800_MB/s
Port 27: id (sw) Vendor: BROCADE          Serial
No: UAF109100000AEV  Speed: 200,400,800_MB/s
Port 28: id (sw) Vendor: BROCADE          Serial
No: UAF109100000A2C  Speed: 200,400,800_MB/s
Port 29: id (sw) Vendor: BROCADE          Serial
No: UAF109100000B7H  Speed: 200,400,800_MB/s
Port 30: id (sw) Vendor: BROCADE          Serial
No: UAF109100000B80  Speed: 200,400,800_MB/s
Port 31: id (sw) Vendor: BROCADE          Serial
No: UAF1091100004J1  Speed: 200,400,800_MB/s
Port 32: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BFK  Speed: 200,400,800_MB/s
Port 33: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BET  Speed: 200,400,800_MB/s
Port 34: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BFJ  Speed: 200,400,800_MB/s
Port 35: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BEP  Speed: 200,400,800_MB/s
Port 36: id (sw) Vendor: BROCADE          Serial
No: UAF1091100004J0  Speed: 200,400,800_MB/s
Port 37: id (sw) Vendor: BROCADE          Serial
No: UAF10911000011W  Speed: 200,400,800_MB/s
Port 38: id (sw) Vendor: BROCADE          Serial
No: UAF1091100004HR  Speed: 200,400,800_MB/s
Port 39: id (sw) Vendor: BROCADE          Serial
No: UAF109110000581  Speed: 200,400,800_MB/s
Port 40: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BEY  Speed: 200,400,800_MB/s
Port 41: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BES  Speed: 200,400,800_MB/s
Port 42: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BFB  Speed: 200,400,800_MB/s
Port 43: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BFE  Speed: 200,400,800_MB/s
Port 44: id (sw) Vendor: BROCADE          Serial
No: UAF10911000058G  Speed: 200,400,800_MB/s
Port 45: id (sw) Vendor: BROCADE          Serial
No: UAF10911000057Z  Speed: 200,400,800_MB/s
Port 46: id (sw) Vendor: BROCADE          Serial
No: UAF109110000585  Speed: 200,400,800_MB/s
Port 47: id (sw) Vendor: BROCADE          Serial
No: UAF109110000580  Speed: 200,400,800_MB/s
Port 48: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BR3  Speed: 200,400,800_MB/s
Port 49: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BR1  Speed: 200,400,800_MB/s
Port 50: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BPM  Speed: 200,400,800_MB/s
Port 51: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BR0  Speed: 200,400,800_MB/s
Port 52: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BPZ  Speed: 200,400,800_MB/s
Port 53: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BRB  Speed: 200,400,800_MB/s
Port 54: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BR2  Speed: 200,400,800_MB/s
Port 55: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BPP  Speed: 200,400,800_MB/s
Port 56: id (sw) Vendor: BROCADE          Serial
No: UAF109100000F7F  Speed: 200,400,800_MB/s
Port 57: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BLE  Speed: 200,400,800_MB/s
Port 58: id (sw) Vendor: BROCADE          Serial
No: UAF109100000F7A  Speed: 200,400,800_MB/s
Port 59: id (sw) Vendor: BROCADE          Serial
No: UAF109100000F79  Speed: 200,400,800_MB/s
Port 60: id (sw) Vendor: BROCADE          Serial
No: UAF109100000F78  Speed: 200,400,800_MB/s
Port 61: id (sw) Vendor: BROCADE          Serial
No: UAF109100000F7E  Speed: 200,400,800_MB/s
Port 62: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BLJ  Speed: 200,400,800_MB/s
Port 63: id (sw) Vendor: BROCADE          Serial
No: UAF109100000DT0  Speed: 200,400,800_MB/s
Port 64: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BPS  Speed: 200,400,800_MB/s
Port 65: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BPR  Speed: 200,400,800_MB/s
Port 66: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BR4  Speed: 200,400,800_MB/s
Port 67: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BPY  Speed: 200,400,800_MB/s
Port 68: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BPN  Speed: 200,400,800_MB/s
Port 69: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BR5  Speed: 200,400,800_MB/s
Port 70: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BWW  Speed: 200,400,800_MB/s
Port 71: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BR6  Speed: 200,400,800_MB/s
Port 72: id (sw) Vendor: BROCADE          Serial
No: UAF109100000DT2  Speed: 200,400,800_MB/s
Port 73: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BLH  Speed: 200,400,800_MB/s
Port 74: id (sw) Vendor: BROCADE          Serial
No: UAF109100000DT1  Speed: 200,400,800_MB/s
Port 75: id (sw) Vendor: BROCADE          Serial
No: UAF109100000DSZ  Speed: 200,400,800_MB/s
Port 76: id (sw) Vendor: BROCADE          Serial
No: UAF109100000F7G  Speed: 200,400,800_MB/s
Port 77: id (sw) Vendor: BROCADE          Serial
No: UAF109100000BLG  Speed: 200,400,800_MB/s
Port 78: id (sw) Vendor: BROCADE          Serial
No: UAF1091000009BL  Speed: 200,400,800_MB/s
Port 79: id (sw) Vendor: BROCADE          Serial
No: UAF109100000F6Z  Speed: 200,400,800_MB/s
```

Appendix D: Third Party Price Quotes

CDW Shopping Cart http://www.cdw.com/shop/cart/default.aspx?printable=1



800.800.4239

Shopping Cart

Quantity	Product	CDW	Availability	Price	Ext. Price
546	Tripp Lite 25' Black Cat5e or Cat5 RJ45 Molded 350mhz UTP Patch Cable	324521	In Stock	$6.99	$3,816.54
19	NETGEAR ProSafe GS724Tv3 - switch - managed - 24 ports	1984876	In Stock	$329.99	$6,269.81
30	Tripp Lite Smart Online 5000VA UPS 4U Rackmount Hot-Swapp 5kVA	947887	4-6 days	$2,952.99	$88,589.70
30	Tripp Lite Smart Online UPS 192V RM 3U External Battery Pack	959740	In Stock	$969.99	$29,099.70
				Sub-Total	$127,775.75

Related Top Sellers For: **Tripp Lite Smart Online 5000VA UPS 4U Rackmount Hot-Swapp 5kVA**

Recommended Accessories

Tripp Lite Digital Power Distribution Unit PDU 1U RM 12 NEMA5-15/20R 20A
$129.99

Recommended Warranties

4Yr Consumer Electronic Protection–Extends Warranty 3 addl years $2501-3500
$152.99

2Yr Consumer Electronic Protection–Extends Warranty 1 addl year $2501-3500
$63.99

3Yr Consumer Electronic Protection–Extends Warranty 2 addl years $2501-3500
$122.99

1 of 1 11/29/10 10:45 AM