TPC Benchmark™ D
Full Disclosure Report

Data General Corporation

AViiON™ Model AV6600
With Oracle 8.0.3
and Windows NT 4.0

First Edition
August 1997

TPC Benchmark™ D Full Disclosure Report
Data General AV6600 Server With Oracle 8.0.3 and Windows NT 4.0
Edition 1

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Document Title: TPC Benchmark™ D Full Disclosure Report
Data General AV6600 Server With Oracle 8.0.3 and Windows NT 4.0
Edition 1

Abstract

This report documents the methodology and results of the TPC Benchmark D test conducted on the AV6600 using Oracle 8.0.3, in conformance with the requirements of the TPC-D Benchmark Specification. The operating system used for the benchmark was Windows NT 4.0 Enterprise Edition with Service Pack 3. The application was written in C and compiled using Microsoft Visual C++ for NT.

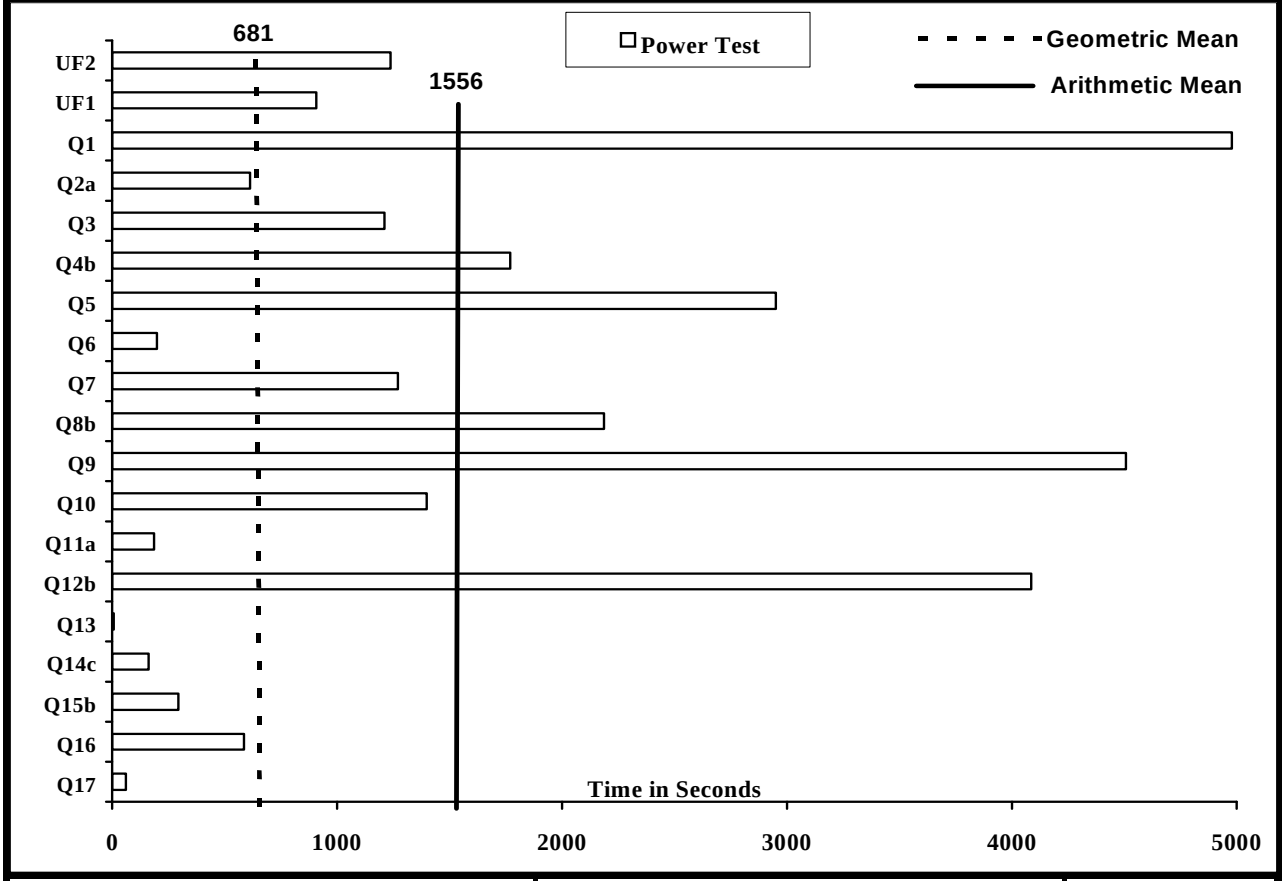
The TPC-D Benchmark was developed by the Transaction Processing Performance Council (TPC). The TPC was founded to define transaction processing benchmarks and to disseminate objective, verifiable performance data to the industry.

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, Information Paradigm, Inc., to verify compliance with the relevant TPC specifications. The auditor's letter of attestation is attached as Appendix G.

Data General Corporation	AViiON AV6600 with Oracle 8.03	TPC-D REV 1.2.3 Report Date: 6-Aug-97

TOTAL SYSTEM COST	TPC-D POWER	TPC-D THROUGHPUT	PRICE/PERFORMANCE
627,123	528.6 QppD @ 100GB	213.9 QthD @ 100GB	1,865 $ per QphD @ 100GB

DATABASE SIZE	DATABASE MANAGER	OPERATING SYSTEM	OTHER SOFTWARE	AVAILABILITY DATE
100GB	Oracle Version 8.0.3	Microsoft Windows NT 4.0 SP3	MKS Toolkit NT Resource Kit Visual C++	30-Nov-97 * see notes section



DATABASE LOAD TIME = 35:01:00	DISK SIZE/DATABASE SIZE = 3.59	RAID: N

SYSTEM COMPONENTS	DESCRIPTION
NUMBER OF NODES	Data General AViiON AV6600
PROCESSORS	6 x 200MHz PentiumPro, 512K Cache
MEMORY	2 GB
DISK DRIVES	83 x 4.3 GB and 1 x 2.1 GB
TOTAL GB OF STORAGE	359 GB

Data General Corporation	AViiON AV6600 with Oracle 8.03	TPC-D REV 1.2.3 Report Date: 6-Aug-97

Description	Part Number	Unit Price	Qty	Extended Price	5 yr. Maint. Price
Server Hardware					
AV6600,3 CPU, 256MB, LAN, SCSI, CD	70706-AE	30,547	1	30,547	9,196
ADD-ON 512MB MEM (4X128MB DIMM)	7105	15,360	3	46,080	4,860
REPL 256MB WITH 512MB (4X128MB DIMM)	R7374	10,816	1	10,816	1,426
ADD-ON TRI-CPU BOARD (200MHZ/512K)	7100	12,997	1	12,997	1,497
D1600I 14" TERMINAL, WHITE, ERGONOMIC	6945W	293	1	293	357
D1200I/D1600I 101-KEYBOARD, PWR CORD	G6001A-A	56	1	56	107
60" DEEPRACK CABINET	14001-G7	1,772	1	1,772	0
2 channel SCSI controller	3944-AUWD	715	4	2,860	2,048
			Subtotal:	**105,421**	**19,491**
Server Software					
ORACLE8 FOR NT	ORACLE NT	60,192	1	60,192	105,840
WIN NT EE PRE-INSTALL LMD	Q139AG21CD	3,999	1	3,999	10,560
Windows NT Resource Kit	NT RESRC KIT	499	1	499	0
MKS Toolkit for NT	MKS NT	499	1	499	0
Microsoft Visual C++ v. 4.0	VISUAL C++ 4.0	499	1	499	2,852
			Subtotal:	**65,688**	**119,252**
Storage Devices					
4GB 1" HOT SWAP DISK FOR AV3600R/6600	61024-SJC	1,102	1	1,102	571
2GB 1" HOT SWAP DISK FOR AV3600R/6600	61024-SJC	777	1	777	571
HIGH PERFORMANCE ARRAY PACKAGE	79301R-E	28,574	4	114,296	26,876
NT ATTACHMENT KIT FOR CLARiiON	7945	488	1	488	0
REPLACE 8MB CACHE WITH 64MB	R7341	4,004	4	16,016	8,447
4GB 7200 RPM Disk	79012HC	1,313	82	107,666	40,461
			Subtotal:	**240,345**	**76,926**
			Total:	**411,454**	**215,669**
			Five Year Cost of Ownership:		**627,123**

Audited By: Francois Raab of Information Paradigm, Inc.

Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchases not permitted. All discounts reflect standard pricing policies for the listed components. For complete details, see the pricing sections of the TPC benchmark specifications.

If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.

AVAILABILITY NOTE: All components are available immediately, except NT 4.0 Enterprise Edition, available 30-Nov-97.

Data General Corporation	AViiON AV6600 with Oracle 8.03	TPC-D REV 1.2.3
		Report Date: 6-Aug-97

Numerical Quantities

Measurement Results:

Database Scaling (SF/Size)	=	**100**
Total Data Storage / Database Size	=	**3.59**
Database Load Time	=	**35 hours 1 minutes 0 seconds**
Query Streams for Throughput Test	=	**0**
TPC-D Power Metric (QppD@100GB)	=	**528.6**
TPC-D Throughput Metric (QthD@100GB)	=	**213.9**
Total System Price Over 5 Years	=	**$627,123**
TPC-D Price Performance Metric ($/QphD@100GB)	=	**$1,865**

Measurement Intervals

Measurement interval in Throughput Test (TS)	=	**28609 seconds**

Duration of Stream Execution:

Stream ID	Seed	Start Date	Start Time	End Date	End Time	Total Time
UF1		7/31/97	11:07:21	7/31/97	11:22:34	0:15:13
Stream 00	857038079	7/31/97	11:07:21	7/31/97	19:04:15	7:56:54
UF2		7/31/97	18:43:37	7/31/97	19:04:15	0:20:38

Timing Intervals (in Seconds)

Query	Q1	Q2a	Q3	Q4b	Q5	Q6	Q7	Q8b	Q9
Stream 00	4977.8	612.5	1210.1	1769.5	2950.5	198.6	1269.9	2185.9	4506.5

Query	Q10	Q11a	Q12b	Q13	Q14c	Q15b	Q16	Q17	UF1	UF2
Stream 00	1398.5	186.4	4086.0	7.0	162.0	293.7	585.6	60.5	908.1	1237.5

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General Items

Test Sponsor

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

Data General Corporation is the sponsor of this TPC Benchmark™ D.

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*
- *Optimizer/Query execution options*
- *Query processing tool/language configuration parameters*
- *Recovery/commit options*
- *Consistency/locking options*
- *Operating system and configuration parameter*
- *Configuration parameters and options for any other software in the pricing structure*
- *Compiler optimization options*

This requirement can be satisfied by providing a full list of all parameters and options, as long as all those which have been modified from their default values have been clearly identified and these parameters and options are only set once.

Details of system and database configurations and parameters are provided in Appendix A.

Configuration Items

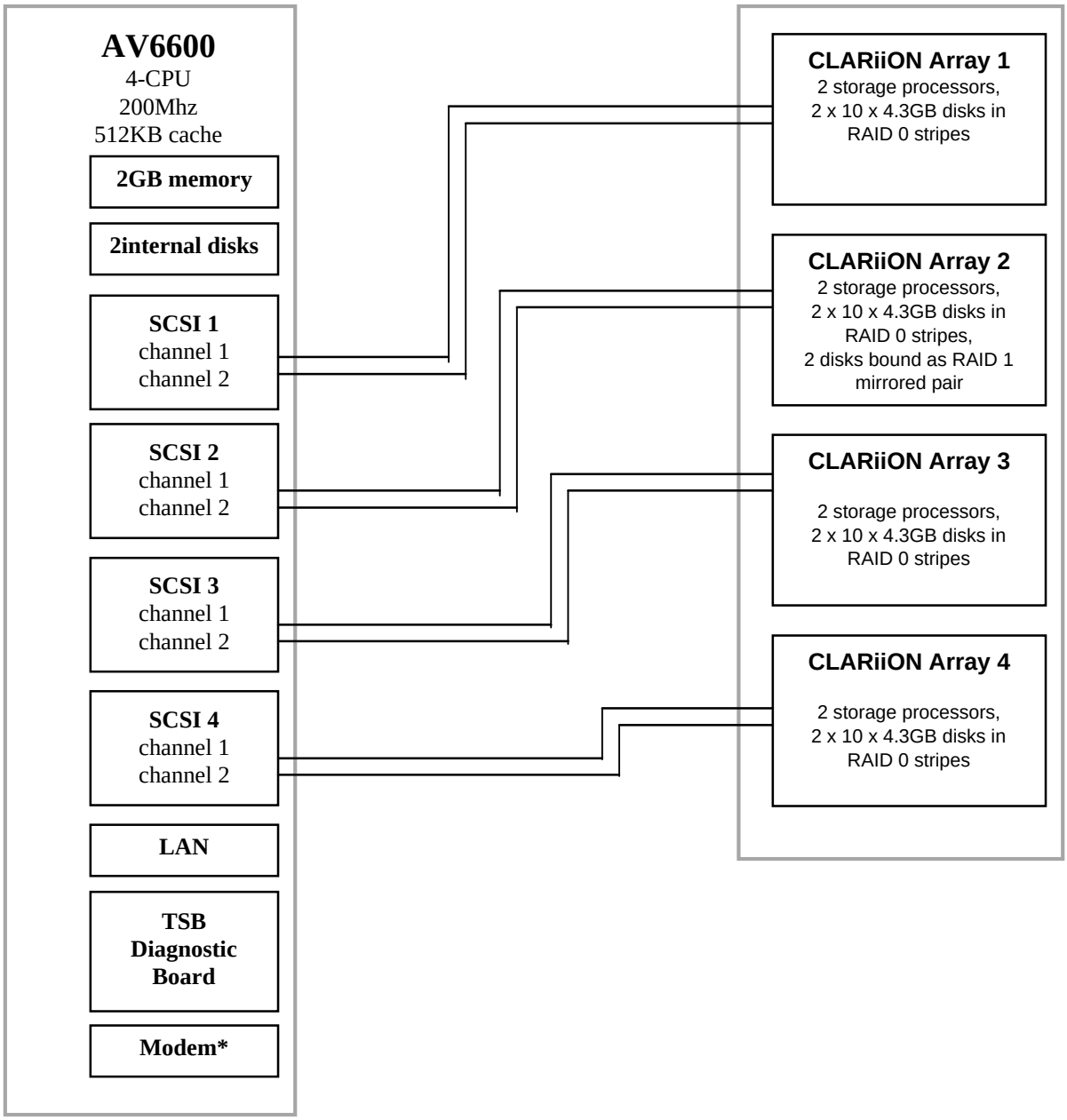
Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences. This includes, but is not limited to:

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

The server System Under Test (SUT), a Data General AViiON AV6600, depicted in the next diagram, consists of:

- (6) 200MHz PentiumPro® Processors, each with 512KB of L2 cache.
- 2GB of main memory.
- 4 SCSI dual controllers (plus an internal SCSI adapter).
- 1 Ethernet controller.
- 2 internal disk drives.
- 4 CLARiiON Disk Arrays, each with two storage processors; 3 arrays with 20 disk drives and one with 22 disk drives.

The system's disk I/O configuration consists of 9 SCSI buses. The internal SCSI adapter controls the 2 internal disks. Each of the other 8 SCSI channels (2 on each of 4 adapters) are connected to 1 Storage Processor controlling a 10 disk RAID 0 stripe; except for 1 channel, which in addition controls a pair of mirrored RAID 1 disks.



Measured and Priced Configuration

***** The only difference betwwen the measured and priced systems is that the measured system did not have a modem installed.

Clause 1: Logical Database Design

Table Definitions

Listings must be provided for all table definition statements and all other statements used to set up the test and qualification databases.

Appendix B contains the scripts that create and analyze the tables and indexes for the TPC-D database.

Physical Organization of Database

The physical organization of tables and indices, within the test and qualification databases, must be disclosed. If the column ordering of any table is different from that specified in Clause 1.4, it must be noted.

No record clustering or index clustering was used for this benchmark.

Horizontal Partitioning

Horizontal partitioning of tables and rows in the test and qualification databases (see Clause 1.5.4) must be disclosed.

The database layout is described in the tables in Clause 4.

Replication

Any replication of physical objects must be disclosed and must conform to the requirements of Clause 1.5.6.

Replication was not used for this benchmark.

Clause 2: Queries and Update Functions

Query Language

The query language used to implement the queries must be identified.

SQL was the query language used to implement all queries.

Random Number Generation

The method of verification for the random number generation must be described unless the supplied DBGEN and QGEN were used.

The 1.2.0 version of DBGEN and version 1.2.0 of QGEN were used to generate the random numbers for this TPC-D benchmark.

Substitution Parameters Generation

The method used to generate values for substitution parameters must be disclosed. If QGEN is not used for this purpose, then the source code of any non-commercial tool used must be disclosed. If QGEN is used, the version number, release number, modification number and patch level of QGEN must be disclosed.

The 1.2.0 version of QGEN was used to generate the substitution parameters.

Query Text and Output Data from Database

The executable query text used for query validation must be disclosed along with the corresponding output data generated during the execution of the query text against the qualification database. If minor modifications (see Clause 2.2.3) have been applied to any functional query definitions or approved variants in order to obtain executable query text, these modifications must be disclosed and justified. The justification for a particular minor query modification can apply collectively to all queries for which it has been used. The output data for the power and throughput tests must be made available electronically upon request.

Appendix C contains the query text and query output. The minor query modifications used in this implementation include the following:

- Wherever there is a date given in the WHERE clause of a select the TO_DATE function is used to convert the character input to the proper date format.
- Wherever there is a date returned by the query the TO_CHAR function is used to convert the date format to the proper output format.
- The Order table defined in the specification has been named the orders table due to conflict with a reserved word.
- Whenever there is a time modification (i.e. add 3 months to a date) the ADD_MONTHS function is used to calculate and adjust the time delta and keep it in the date/time format.
- CREATE TABLE statements have specific storage parameters in them. Namely, what tablespace to create them on, the sizes of the extents, and how full the extents should be before allocating a new one. The degree of parallelism was not specified for any temporary tables created.

Query Substitution Parameters and Seeds Used

All the query substitution parameters used during the performance test must be disclosed in tabular format, along with the seeds used to generate these parameters.

Appendix D contains the seed and query substitution parameters.

Update Function Source Code

The details of how the update functions were implemented must be disclosed (including source code of any non-commercial program used).

The update function is part of the implementation-specific driver code included in Appendix E.

Database Maintenance Option

The details of the database maintenance option selected (i.e., reset or evolve) must be disclosed (including source code of any non-commercial program used).

This implementation of the TPC-D benchmark uses the reset option.

Clause 3: Database System Properties

Atomicity

The results of the ACID tests must be disclosed along with a description of how the ACID requirements were met. This includes disclosing the code written to implement the ACID Transaction and Query.

Completed Transaction

Perform the ACID Transaction for a randomly selected set of input data and verify that the appropriate rows have been changed in the ORDER, LINEITEM, and HISTORY tables.

1. The total prices from the ORDER table and the extended price from the LINEITEM table were retrieved for a randomly selected order key.
2. The ACID Transaction was performed using the order key from step 1.
3. The ACID Transaction was committed.
4. The total price from the ORDER table and the extended price from the LINEITEM table were retrieved for the same order key. It was verified that the appropriate rows had been changed.

Aborted Transaction

Perform the ACID transaction for a randomly selected set of input data, substituting a ROLLBACK of the transaction for the COMMIT of the transaction. Verify that the appropriate rows have not been changed in the ORDER, LINEITEM, and HISTORY tables.

1. The total price from the ORDER table and the extended price from the LINEITEM table were retrieved for a randomly selected order key.
2. The ACID Transaction was performed using the order key from step 1. The transaction was stopped prior to the commit.
3. The ACID Transaction was rolled back.
4. The total price from the ORDER table and the extended price from the LINEITEM table were retrieved for the same order key, and were verified to have not been changed.

Consistency

Consistency is the property of the application that requires any execution of transactions to take the database from one consistent state to another.

Consistency Test

Verify that ORDER and LINEITEM tables are initially consistent, submit the prescribed number of ACID Transactions with randomly selected input parameters, and re-verify the consistency of the ORDER and LINEITEM tables.

1. The consistency of the ORDER and LINEITEM tables was verified based on a sample of O_ORDERKEYs.
2. 100 ACID transactions were submitted from each of 2 execution streams.
3. The consistency of the ORDER and LINEITEM tables was verified a second time with the same O_ORDERKEYs.

Isolation

Operations of concurrent transactions must yield results which are indistinguishable from the results which would be obtained by forcing each transaction to be serially executed to completion in some order.

Read-Write Conflict with Commit

Demonstrate isolation for the read-write conflict of a read-write transaction and a read-only transaction when the read-write transaction is committed.

1. An ACID transaction was started for a randomly selected O_KEY, L_KEY, and DELTA. The ACID transaction as suspended prior to commit.
2. An ACID query was started for the same O_KEY used in step 1. The ACID query completed and did not see the uncommitted changes made by the ACID transaction.
3. The ACID transaction was committed.

Read-Write Conflict with Rollback

Demonstrate isolation for the read-write conflict of a read-write transaction and a read-only transaction when the read-write transaction is rolled back.

1. An ACID transaction was started for a randomly selected O_KEY, L_KEY, and DELTA. The ACID transaction was suspended prior to rollback.
2. An ACID query was started for the same O_KEY used in step 1. The ACID query completed and did not see the uncommitted changes made by the ACID transaction.
3. The ACID transaction was rolled back.

Write-Write Conflict with Commit

Demonstrate isolation for the write-write conflict of two update transactions when the first transaction is committed.

1. An ACID transaction, T1, was started for a randomly selected O_KEY, L_KEY, and DELTA. The ACID transaction was suspended prior to commit.
2. A second ACID transaction, T2, was started using the same O_KEY and L_KEY and a different randomly selected DELTA.
3. T2 waited.
4. T1 was allowed to commit and then T2 completed.
5. It was verified that T2.L_EXTENDPRICE was calculated correctly.

Write-Write Conflict with Rollback

Demonstrate isolation for the write-write conflict of two update transactions when the first transaction is rolled back.

1. An ACID transaction, T1, was started for a randomly selected O_KEY, L_KEY, and DELTA. The ACID transaction was suspended prior to rollback.
2. A second ACID transaction, T2, was started using the same O_KEY and L_KEY and a different randomly selected DELTA.
3. T2 waited.
4. T1 was allowed to rollback and then T2 completed.
5. It was verified that T2.L_EXTENDPRICE was calculated correctly.

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 the failures listed in Clause 3.5.2.

Failure of a Durable Medium

Guarantee the database and committed updates are preserved across a permanent irrecoverable failure of any single durable medium containing TPC-D database tables or recovery log tables.

The database logs were stored on a hardware mirrored pair (2 disks running RAID 1).

The tables for the database were stored on RAID-0 stripes.

1. The datafiles were backed up to an alternate disk media.
2. Two streams of ACID transactions were started.
3. While the test was running one side of the mirrored set of logs was disabled.
4. After it was determined that the test would still run with the loss of a log disk, a data disk was disabled.
5. The two streams of ACID transactions failed and recorded their numbers of committed transactions in success files.
6. The database was brought down.
7. The datafiles were restored to their state prior to the ACID transaction streams.
8. The database ran through its recovery mode.
9. The counts in the success files and the HISTORY table count were compared. The counts matched.

System Crash

Guarantee the database and committed updates are preserved across an instantaneous interruption (system crash/system hang) in processing which requires the system to reboot to recover.

1. Two streams of ACID transactions were started.
2. While the streams of ACID transactions were running the system was powered off.
3. When power was restored the system rebooted and the database was restarted.
4. The database went through a recovery period.
5. The success file and the HISTORY table counts were compared, and they matched.

Memory Failure

Guarantee the database and committed updates are preserved across failure of all or part of memory (loss of contents).

The system crash test and the memory failure test were combined. See the previous section.

Clause 4: Scaling and Database Population

Initial Cardinality of Tables

The cardinality (e.g., the number of rows) of each table of the test database, as it existed at the completion of the database load (see clause 4.2.5) must be disclosed.

Initial number of rows

Table	Occurrences
Orders	150,000,000
Lineitem	600,037,902
Customer	15,000,000
Part	20,000,000
Supplier	1,000,000
Partsupp	80,000,000
Nation	25
Region	5

Distribution of Tables and Logs Across Media

The distribution of tables and logs across all media must be explicitly described.

The database tables were distributed across 4 CLARiiON disk arrays. Each array contained two storage processors. The arrays were configured as follows:

- Database files were stored on 8 RAID 0 stripes, each consisting of (10) 4.3GB disks.
- Log information was stored on a mirrored pair, using (2) 4.3GB disks.
- Flat files were stored on (25) 4.3GB disks and (10) 2.1GB disks, which were physically removed before measurement.
- Database binaries were stored on one 4.3GB disk.
- The operating system was stored on one 2.1GB internal disk internal.

In the following tables, each row in the Controller column refers to one of two storage processors in each of the 4 CLARiiON disk arrays.

Distribution of Storage

Controller	Disk Drive	Storage Content
1	1-10	1 RAID 0 stripe for the database datafiles
2	11-20	1 RAID 0 stripe for the database datafiles
3	1-10	1 RAID 0 stripe for the database datafiles
4	11-20	1 RAID 0 stripe for the database datafiles
4	21,22	Mirrored pair containing one log
5	1-10	1 RAID 0 stripe for the database datafiles

6	11-20	1 RAID 0 stripe for the database datafiles
7	1-10	1 RAID 0 stripe for the database datafiles
8	11-20	1 RAID 0 stripe for the database datafiles

Partitioning and Replication

The mapping of database partitions/replications must be explicitly described. Implementations may use some form of RAID to ensure high availability. If used for data, auxiliary storage (e.g. indexes) or temporary space, the level of RAID used must be disclosed for each device.

No replication was used for this implementation.

Distribution of Partitioned Tables

Controller	Configuration	Usage	Fraction
1	RAID 0	lineitem, orders, parts, partsupp, supplier, nation, and region	1/8th of each of these tables except nation and region 100%
2	RAID 0	lineitem, orders, parts, partsupp, supplier	1/8th of each of these tables
3	RAID 0	lineitem, orders, parts, partsupp, supplier	1/8th of each of these tables
4	RAID 0	lineitem, orders, parts, partsupp, supplier	1/8th of each of these tables
4	Mirrored pair	Log	100%
5	RAID 0	lineitem, orders, parts, partsupp, supplier	1/8th of each of these tables
6	RAID 0	lineitem, orders, parts, partsupp, supplier	1/8th of each of these tables
7	RAID 0	lineitem, orders, parts, partsupp, supplier	1/8th of each of these tables
8	RAID 0	lineitem, orders, parts, partsupp, supplier	1/8th of each of these tables

DBGEN Version and Modifications

The version number, release number, modification number, and patch level of DBGEN must be disclosed. Any modifications to the DBGEN (see Clause 4.2.1) source code….must be disclosed. In the event that a program other than DBGEN was used to populate the database, it must be disclosed in its entirety.

The supplied DBGEN Version 1.2.0 was used for database population.

Database Content of the First Ten Rows

The content of the first ten rows of each table in the test database must be disclosed.

Appendix F contains the first ten rows of each table in the test database.

Database Load time

The database load time for the test database (see clause 4.3) must be disclosed.

Database load time was 35 hours 1 minute 0 seconds.

Data Storage Ratio

The data storage ratio must be disclosed. It is computed by dividing the total data storage of the priced configuration (expressed in GB) by the size chosen for the test database as defined in 4.1.3.1. The ratio must be reported to the nearest 1/100, rounded up.

Data Storage Ratio

Disk Type	Number of Disks	Space per Disk	Subtotal Disk Space
4.3GB	83	4.3GB	356.9GB
2.1GB	1	2.1GB	2.1GB

Total disk storage: 359.0GB

Data storage ratio: 3.59

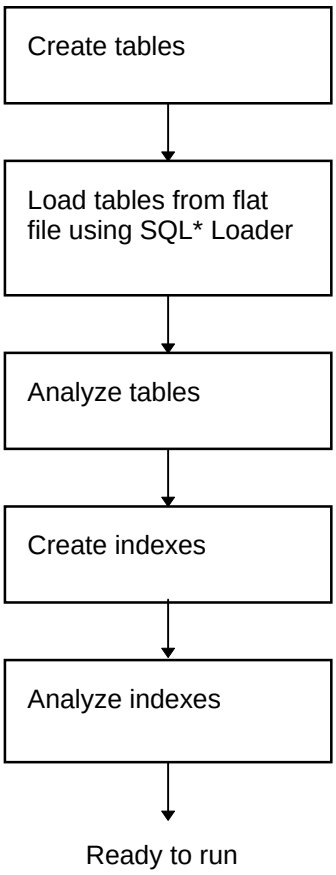
Database Load Mechanism Details and Illustration

The details of the database load must be disclosed, including a block diagram illustrating the overall process. Disclosure of the load procedure includes all steps, scripts, input and configuration files required to completely reproduce the test and qualification databases.

DBGEN was used to create flat files which were then loaded into the tablespaces using SQL*Loader. The flat files were split into as many as 160 files per table (as documented in the load scripts in the appendix), except the REGION and NATION tables which each had only one file.

PERL was used to perform the creation of the tablespaces, tables, and indexes of the database. It was also used to run the analyze scripts. The controller cache was set to 0MB write cache and 60 MB read cache during the database load and the power runs. This was done manually, through running of the CLARiiON Dass Manager.

After the load phase was completed, the flat file disks were physically removed from the system.



Database Load Process

Clause 5: Performance Metrics and Execution Rules

Steps in the Power Test

The details of the steps followed to implement the power test (e.g., system boot, database restart, etc.) must be disclosed.

The following steps were used to implement the power test:

1. Database restart.
2. UF1 update transaction.
3. Stream 00 execution.
4. UF2 update transaction.

Timing Intervals

The timing intervals (see Clause 5.3.6) for each query of the measured set and for both update functions must be reported for the power test.

The power test timing intervals are disclosed in the Numerical Quantities Summary earlier in this document.

Number of Streams for The Throughput Test

The number of execution streams used for the throughput test must be disclosed.

No separate throughput test was conducted. Therefore, the values of power test were used for the throughput test.

Start/Finish Time of Each Query Stream

The start time and finish time for each query execution stream must be reported for the throughput test.

The throughput test start time and finish time for each stream are disclosed in the Numerical Quantities Summary earlier in this document.

Total Elapsed Time

The total elapsed time of the measurement interval must be reported for the throughput test.

The total elapsed time of the throughput test was 28609 seconds.

Start/Finish Time for Update Function

Start and finish time for each update function in the update stream must be reported for the throughput test.

The start and finish time for each update function in the update stream are disclosed in the Numerical Quantities Summary earlier in this document.

Timing Intervals for Each Query and Each Update

The timing intervals (see Clause 5.3.6) for each query of each stream and for each update function must be reported for the throughput test.

The timing intervals for each query and each update function are contained in the Numerical Quantities Summary disclosed earlier in this document. Since no separate throughput test was conducted, the values for the power test are used for the throughput test.

Performance Metrics

The computed performance metrics, related numerical quantities and the price performance metric must be reported.

The performance metrics, and the numbers on which they are based, are contained in the Numerical Quantities section of the Executive Summary.

Reproducibility Method

A description of the method used to determine the reproducibility of the measurement results must be reported. This must include the performance metrics (QppD and QthD) from the reproducibility runs.

Performance results from the first two executions of the TPC-D benchmark indicated the following percent differences for the metrics:

Percentage Differences in Benchmark Executions

Run	QppD@100GB	QthD@100GB	QphD@100GB
1	528.6	213.9	336.3
2	531.0	213.5	336.7
Percent Difference	0.45%	0.19%	0.12%

Clause 6: SUT and Driver Implementation

Driver

A detailed description of how the driver performs its functions must be supplied, including any related source code or scripts. This description should allow an independent reconstruction of the driver.

QGEN is first called with a stream ID of 0 to generate the QET for the power test. The power test is performed by a shell script called **runpower1.sh**. This shell script calls **runuf1.sh**, which performs the update function. Queries are then executed with the **qexec.ott** ISL program. The last part of the power test is run through another shell script called **runuf2.sh**. Both wall-clock and high-resolution times are collected for the measurement intervals.

For the update functions multiple sqlldr processes loaded data into temporary tables. ORACLE8's parallel insert and delete functionality was used to perform the Update Functions, selecting data from the temporary tables.

Implementation Specific Layer (ISL)

If an implementation-specific layer is used, then a detailed description of how it performs its functions must be supplied, including any related source code or scripts. This description should allow an independent reconstruction of the implementation-specific layer.

Query execution text generated by QGEN is picked up by the ISL program, **qexec.ott**, which submits the query to the SUT. The ISL program utilize the Oracle Call Interface (OCI) to communicate with the Oracle database on the SUT. QETs directly generated by QGEN are read and submitted to the SUT via the ISL program as dynamic SQL statements. The ISL program then fetches the query execution output and reports it to the user. Timings are taken at intervals specified by Clause 5.3.6.2.

Clause 7: Pricing

Hardware and Software Used in the Priced System

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

A detailed list of the hardware and software used in the priced system is included in the executive summary at the beginning of this document.

Total Five year Price

The total 5-year price of the entire configuration must be reported including: hardware, software, and maintenance charges. Separate component pricing is recommended. The basis of all discounts used must be disclosed.

A detailed price sheet of all the hardware and software used in this configuration, including the 5-year maintenance cost, and total price, is included in the executive summary at the beginning of this document. All maintenance has been uplifted from 8x40 to 7x24. All AViiON hardware comes with a 1 year 48-hour response warrantee, which has been uplifted to 7x24 4-hour response. Software comes with a 90 day telephone warantee, which has been uplifted to 7x24 support with updates. Oracle is discounted 40%, and the maintenance 10% off the base prices.

Availability Date

The committed delivery date for general availability of products used in the price calculations must be reported. When the priced system includes products with different availability dates, the availability date reported on the executive summary must be the date by which all components are committed to being available. The full disclosure report must report availability dates individually for at least each of the categories for which a pricing subtotal must be provided.

All components are available as of the date reported in the executive summary.

Clause 8: Auditor-Related Items

Auditor's Report

The auditor's agency name, address, phone number, and Attestation letter with a brief audit summary report indicating compliance must be included in the full disclosure report. A statement should be included specifying who to contact in order to obtain further information regarding the audit process.

The auditor's letter of attestation is included in this full disclosure report as Appendix G.

This implementation was audited by: Francois Raab, Information Paradigm, TPC Certified D Auditor.

Further information regarding the audit process may be obtained from:

Information Paradigm Inc.
1373 North Franklin Street
Colorado Springs, CO 80903
719/473-7555

Requests for this TPC Benchmark D Full Disclosure Report should be sent to:
Transaction Processing Performance Council
c/o Shanley Public Relations
777 North First Street, Suite 6000
San Jose, CA 95112-6311
408/295-8894

Appendix A: Parameter Settings

System Configuration Settings

The following NT services were started:

Alerter
EventLog
License Logging Service
Messanger
Net Logon
OracleServiceTPCD
Plug and Play
Remote Procedure Call (RPC) Locator
Remote Procedure Call (RPC) Service
Schedule
Server
Simple TCP/IP Services
Spooler
TCP/IP NetBIOS Helper
Workstation

The default NT registry settings were used, with the exception of tuning 1 parameter. This parameter deals with the SCSI disk controller concurrency. It was changed from the default of 16 to 64 (0x40 hexadecimal). This can be changed by regedit under HKEY_LOCAL_MACHINE/SYSTEM/CurrentControlSet/Services/aic78xx/Parameters/Device, setting the REG_DWORD 'NumberOfRequests' to 0x40 hexadecimal.

Oracle Parameter Settings

Appendix A

```
P_BUILD.ORA
# p_build.ora
enqueue_resources       = 15000
db_files                = 10000
sort_direct_writes      = true
# for creation and population
sort_area_size          = 5000000
sort_area_retained_size       = 5000000
hash_area_size          = 45000000
always_anti_join        = hash
compatible              = 8.0.3
db_block_lru_latches    = 64
hash_multiblock_io_count= 8
hash_join_enabled       = true
sort_read_fac           = 15
log_checkpoint_interval = 2000000000
log_buffer              = 5242880
log_checkpoints_to_alert= true
parallel_min_servers    = 80
parallel_max_servers    = 80
optimizer_search_limit  = 6
_advanced_dss_features  = true
cleanup_rollback_entries= 100
max_dump_file_size      = 4000000
parallel_min_servers    = 80
parallel_max_servers    = 80
processes               = 160
remote_login_passwordfile = shared
dml_locks               = 2000
shared_pool_size        = 100000000
timed_statistics        = FALSE
transactions_per_rollback_segment = 2
background_dump_dest    = d:\tpcd\log\hundgig
user_dump_dest          = d:\tpcd\log\hundgig

P_INDEX.ORA
# p_index.ora
enqueue_resources       = 15000
db_files                = 10000
sort_direct_writes      = true
# for execution
sort_area_size          = 5000000
sort_area_retained_size = 5000000
hash_area_size          = 50000000
always_anti_join        = hash
compatible              = 8.0.3
db_block_lru_latches    = 64
hash_multiblock_io_count= 8
hash_join_enabled       = true
sort_read_fac           = 15
log_checkpoint_interval = 2000000000
log_buffer              = 5242880
log_checkpoints_to_alert= true
parallel_min_servers    = 80
parallel_max_servers    = 80
optimizer_search_limit  = 6
_advanced_dss_features  = true
cleanup_rollback_entries= 100
max_dump_file_size      = 4000000
db_file_multiblock_read_count = 32
dml_locks               = 2000
processes               = 160
remote_login_passwordfile = shared
rollback_segments=(r1,r2,r3,r4,r5,r6,r7,r8,r9,r10,\
r11,r12,r13,r14,r15,r16,r17,r18,r19,r20,\
r21,r22,r23,r24,r25,r26,r27,r28,r29,r30,\
r31,r32,r33,r34,r35,r36,r37,r38,r39,r40,\
r41,r42,r43,r44,r45,r46,r47,r48,r49,r50,\
r51,r52,r53,r54,r55,r56,r57,r58,r59,r60,\
r61,r62,r63,r64,r65,r66,r67,r68,r69,r70,\
r71,r72,r73,r74,r75,r76,r77,r78,r79,r80,\
r81,r82)
shared_pool_size        = 100000000
timed_statistics        = FALSE
transactions_per_rollback_segment = 2
background_dump_dest    = d:\tpcd\log\hundgig
user_dump_dest          = d:\tpcd\log\hundgig

INIT1_TPCD.ORA
#init1_tpcd.ora
```

Appendix A

```
# Init.ora for instance 1 created by bumpx.pl
thread = 1
ifile = d:\tpcd\dbs\hundgig\init_tpcd.ora

INIT_TPCD.ORA
# init_tpcd.ora
# Init.ora include file created by bumpx.pl
db_name                  = tpcd
control_files      = d:\tpcd\dbs\hundgig\cntrltpcd.dbf
db_block_buffers           = 1000
shared_pool_size           = 35000000
parallel_max_servers       = 144
parallel_min_servers       = 0
max_dump_file_size         = 5000
audit_trail                = FALSE
global_names               = FALSE
db_block_size              = 16384
db_file_multiblock_read_count = 8
processes                  = 256
sessions                   = 256
transactions               = 512
transactions_per_rollback_segment = 20
max_rollback_segments      = 256
distributed_transactions   = 0
nls_date_format            = YYYY-MM-DD
db_files                   = 1023
open_cursors               = 1024
sort_direct_writes         = auto
sort_write_buffer_size     = 65536
sort_write_buffers         = 8
optimizer_mode             = CHOOSE
optimizer_percent_parallel = 100
ifile                      = d:\tpcd\dbs\hundgig\tkinit.ora

TKINIT.ORA
enqueue_resources        = 15000
db_block_buffers       = 6000
db_files                 = 10000
sort_direct_writes       = true
always_anti_join       = hash
compatible             = 8.0.3
db_block_lru_latches     = 64
hash_multiblock_io_count= 8
hash_join_enabled      = true
sort_read_fac            = 15
log_checkpoint_interval = 2000000000
log_buffer             = 5242880
log_checkpoints_to_alert= true
parallel_min_servers   = 80
parallel_max_servers   = 80
optimizer_search_limit  = 6
_advanced_dss_features  = true
_db_block_write_batch   = 1024
cleanup_rollback_entries= 100
max_dump_file_size       = 4000000
db_file_multiblock_read_count = 32
dml_locks                = 2000
processes                = 160
remote_login_passwordfile = shared
rollback_segments=(r1,r2,r3,r4,r5,r6,r7,r8,r9,r10,\
r11,r12,r13,r14,r15,r16,r17,r18,r19,r20,\
r21,r22,r23,r24,r25,r26,r27,r28,r29,r30,\
r31,r32,r33,r34,r35,r36,r37,r38,r39,r40,\
r41,r42,r43,r44,r45,r46,r47,r48,r49,r50,\
r51,r52,r53,r54,r55,r56,r57,r58,r59,r60,\
r61,r62,r63,r64,r65,r66,r67,r68,r69,r70,\
r71,r72,r73,r74,r75,r76,r77,r78,r79,r80,\
r81,r82)
hash_area_size             = 15768240
sort_area_size             = 1048576
sort_area_retained_size    = 1048576
shared_pool_size         = 100000000
timed_statistics         = FALSE
transactions_per_rollback_segment = 2
background_dump_dest   = d:\tpcd\log\hundgig
user_dump_dest         = d:\tpcd\log\hundgig
```

Appendix B: Programs and Scripts

[NOTE: Some of the scripts are very long, and, in order to save space, are printed in very small font. The electronic version of the FDR has the complete listings. But all of the scripts may not be readable in the paper version.]

TPCD100_8_DG.CONF

```
# Configuration file for bumpx.pl

*matchon
######################################################################
##
# preprocessing-like directives

%b-preproc

*sql
\svrmgr30 <<!
\set echo on;
\set termout on;
\connect internal;
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\{}
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\exit;
\!

*load
\sqlldr80 {}

*mknod
\mknod {}

*dbgen
\dbgen {}

*sh
\{}

%e-preproc
*matchoff

######################################################################
##

# basic parameters

scale_factor = 100
dd_sql_area = d:\orant\rdbms80\admin\
dbs_area = d:\tpcd\dbs\hundgig\
max_bg = 64
sccre_max_bg = 40
dapop_max_bg = 40
dbgen_max_bg = 20
ixcre_max_bg = 1
anlyz_max_bg = 40
user=tpcd
passwd=tpcd
compatible=8.0

io_ifile=d:\tpcd\dbs\hundgig\tkinit.ora
io_control_files=d:\tpcd\dbs\hundgig\cntrltpcd.dbf
#skip_mk_initoras=include
#skip_mk_ldctlfs=lineitem,orders,customer,parts,partsupp,supplier,nati
on,region

# create database parameters

db_maxdatafiles=10000

# Basic tablespace related parameters

skip_ts=ts_data

# Need to change the following base subdirectory for ecsun4
ts_def_area =  g:\tpcd\dbs\hundgig\
ts_def_#files = 1

ts_sys_first_size=1000m
ts_sys_size=1000m
ts_sys_datafiles=sys.dbf
ts_sys_area=d:\tpcd\dbs\hundgig\

ts_log_first_size=1000m
ts_log_size=1000m
#ts_log_datafiles=log1.dbf,log2.dbf
#ts_log_area=f:\tpcd\dbs\hundgig\
ts_log_area=none
ts_log_datafiles=\\.\O:,\\.\P:

## Changed from original 1000m to make
## parallel DMLs (update functions) work.
##
ts_undo_#files=9
ts_undo_first_size=1000m
ts_undo_size=300m
ts_undo_datafiles=ts_undo_#
ts_undo_area=d:\tpcd\dbs\hundgig\
ts_undo_areas=g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,&
k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,&
m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\
ts_undo_#rs=83
ts_undo_rs_storage=(initial 10m next 2048k maxextents unlimited)

#ts_data_names=ts_ps,ts_p,ts_s
ts_data_names=ts_ps,ts_s
#ts_data_groups=ts_l,ts_o,ts_c
ts_data_groups=ts_l,ts_o,ts_c,ts_p

#ts_index_names=ts_ind1,ts_ind2,ts_ind3,ts_ind4,ts_ind5
ts_index_names=ts_ind1,ts_ind3,ts_ind4,ts_ind5

ts_l_group_#ts=80
ts_l_group_#files=2
ts_l_group_first_size=461m
ts_l_group_size=461m
ts_l_group_storage=(initial 64k next 460m pctincrease 0)
ts_l1_area=g:\tpcd\dbs\hundgig\
ts_l2_area=h:\tpcd\dbs\hundgig\
ts_l3_area=i:\tpcd\dbs\hundgig\
ts_l4_area=j:\tpcd\dbs\hundgig\
ts_l5_area=k:\tpcd\dbs\hundgig\
ts_l6_area=l:\tpcd\dbs\hundgig\
ts_l7_area=m:\tpcd\dbs\hundgig\
ts_l8_area=n:\tpcd\dbs\hundgig\
ts_l9_area=g:\tpcd\dbs\hundgig\
ts_l10_area=h:\tpcd\dbs\hundgig\
ts_l11_area=i:\tpcd\dbs\hundgig\
ts_l12_area=j:\tpcd\dbs\hundgig\
ts_l13_area=k:\tpcd\dbs\hundgig\
ts_l14_area=l:\tpcd\dbs\hundgig\
ts_l15_area=m:\tpcd\dbs\hundgig\
ts_l16_area=n:\tpcd\dbs\hundgig\
ts_l17_area=g:\tpcd\dbs\hundgig\
ts_l18_area=h:\tpcd\dbs\hundgig\
ts_l19_area=i:\tpcd\dbs\hundgig\
ts_l20_area=j:\tpcd\dbs\hundgig\
ts_l21_area=k:\tpcd\dbs\hundgig\
ts_l22_area=l:\tpcd\dbs\hundgig\
ts_l23_area=m:\tpcd\dbs\hundgig\
ts_l24_area=n:\tpcd\dbs\hundgig\
ts_l25_area=g:\tpcd\dbs\hundgig\
ts_l26_area=h:\tpcd\dbs\hundgig\
ts_l27_area=i:\tpcd\dbs\hundgig\
ts_l28_area=j:\tpcd\dbs\hundgig\
ts_l29_area=k:\tpcd\dbs\hundgig\
ts_l30_area=l:\tpcd\dbs\hundgig\
ts_l31_area=m:\tpcd\dbs\hundgig\
ts_l32_area=n:\tpcd\dbs\hundgig\
ts_l33_area=g:\tpcd\dbs\hundgig\
ts_l34_area=h:\tpcd\dbs\hundgig\
ts_l35_area=i:\tpcd\dbs\hundgig\
ts_l36_area=j:\tpcd\dbs\hundgig\
ts_l37_area=k:\tpcd\dbs\hundgig\
ts_l38_area=l:\tpcd\dbs\hundgig\
ts_l39_area=m:\tpcd\dbs\hundgig\
ts_l40_area=n:\tpcd\dbs\hundgig\
ts_l41_area=g:\tpcd\dbs\hundgig\
ts_l42_area=h:\tpcd\dbs\hundgig\
ts_l43_area=i:\tpcd\dbs\hundgig\
ts_l44_area=j:\tpcd\dbs\hundgig\
ts_l45_area=k:\tpcd\dbs\hundgig\
ts_l46_area=l:\tpcd\dbs\hundgig\
ts_l47_area=m:\tpcd\dbs\hundgig\
ts_l48_area=n:\tpcd\dbs\hundgig\
ts_l49_area=g:\tpcd\dbs\hundgig\
ts_l50_area=h:\tpcd\dbs\hundgig\
ts_l51_area=i:\tpcd\dbs\hundgig\
ts_l52_area=j:\tpcd\dbs\hundgig\
ts_l53_area=k:\tpcd\dbs\hundgig\
ts_l54_area=l:\tpcd\dbs\hundgig\
ts_l55_area=m:\tpcd\dbs\hundgig\
ts_l56_area=n:\tpcd\dbs\hundgig\
ts_l57_area=g:\tpcd\dbs\hundgig\
ts_l58_area=h:\tpcd\dbs\hundgig\
ts_l59_area=i:\tpcd\dbs\hundgig\
ts_l60_area=j:\tpcd\dbs\hundgig\
ts_l61_area=k:\tpcd\dbs\hundgig\
ts_l62_area=l:\tpcd\dbs\hundgig\
ts_l63_area=m:\tpcd\dbs\hundgig\
ts_l64_area=n:\tpcd\dbs\hundgig\
ts_l65_area=g:\tpcd\dbs\hundgig\
ts_l66_area=h:\tpcd\dbs\hundgig\
ts_l67_area=i:\tpcd\dbs\hundgig\
ts_l68_area=j:\tpcd\dbs\hundgig\
ts_l69_area=k:\tpcd\dbs\hundgig\
ts_l70_area=l:\tpcd\dbs\hundgig\
ts_l71_area=m:\tpcd\dbs\hundgig\
ts_l72_area=n:\tpcd\dbs\hundgig\
ts_l73_area=g:\tpcd\dbs\hundgig\
ts_l74_area=h:\tpcd\dbs\hundgig\
ts_l75_area=i:\tpcd\dbs\hundgig\
ts_l76_area=j:\tpcd\dbs\hundgig\
ts_l77_area=k:\tpcd\dbs\hundgig\
ts_l78_area=l:\tpcd\dbs\hundgig\
ts_l79_area=m:\tpcd\dbs\hundgig\
ts_l80_area=n:\tpcd\dbs\hundgig\

ts_o_group_#ts=80
ts_o_group_#files=2
ts_o_group_first_size=115m
ts_o_group_size=115m
ts_o_group_storage=(initial 64k next 112m pctincrease 0)
ts_o1_area=g:\tpcd\dbs\hundgig\
ts_o2_area=h:\tpcd\dbs\hundgig\
ts_o3_area=i:\tpcd\dbs\hundgig\
ts_o4_area=j:\tpcd\dbs\hundgig\
ts_o5_area=k:\tpcd\dbs\hundgig\
ts_o6_area=l:\tpcd\dbs\hundgig\
ts_o7_area=m:\tpcd\dbs\hundgig\
ts_o8_area=n:\tpcd\dbs\hundgig\
ts_o9_area=g:\tpcd\dbs\hundgig\
ts_o10_area=h:\tpcd\dbs\hundgig\
ts_o11_area=i:\tpcd\dbs\hundgig\
ts_o12_area=j:\tpcd\dbs\hundgig\
ts_o13_area=k:\tpcd\dbs\hundgig\
ts_o14_area=l:\tpcd\dbs\hundgig\
ts_o15_area=m:\tpcd\dbs\hundgig\
ts_o16_area=n:\tpcd\dbs\hundgig\
ts_o17_area=g:\tpcd\dbs\hundgig\
ts_o18_area=h:\tpcd\dbs\hundgig\
ts_o19_area=i:\tpcd\dbs\hundgig\
ts_o20_area=j:\tpcd\dbs\hundgig\
ts_o21_area=k:\tpcd\dbs\hundgig\
ts_o22_area=l:\tpcd\dbs\hundgig\
ts_o23_area=m:\tpcd\dbs\hundgig\
ts_o24_area=n:\tpcd\dbs\hundgig\
ts_o25_area=g:\tpcd\dbs\hundgig\
ts_o26_area=h:\tpcd\dbs\hundgig\
ts_o27_area=i:\tpcd\dbs\hundgig\
ts_o28_area=j:\tpcd\dbs\hundgig\
ts_o29_area=k:\tpcd\dbs\hundgig\
ts_o30_area=l:\tpcd\dbs\hundgig\
ts_o31_area=m:\tpcd\dbs\hundgig\
ts_o32_area=n:\tpcd\dbs\hundgig\
ts_o33_area=g:\tpcd\dbs\hundgig\
ts_o34_area=h:\tpcd\dbs\hundgig\
ts_o35_area=i:\tpcd\dbs\hundgig\
ts_o36_area=j:\tpcd\dbs\hundgig\
ts_o37_area=k:\tpcd\dbs\hundgig\
ts_o38_area=l:\tpcd\dbs\hundgig\
```

```
ts_o39_area=m:\tpcd\dbs\hundgig\
ts_o40_area=n:\tpcd\dbs\hundgig\
ts_o41_area=g:\tpcd\dbs\hundgig\
ts_o42_area=h:\tpcd\dbs\hundgig\
ts_o43_area=i:\tpcd\dbs\hundgig\
ts_o44_area=j:\tpcd\dbs\hundgig\
ts_o45_area=k:\tpcd\dbs\hundgig\
ts_o46_area=l:\tpcd\dbs\hundgig\
ts_o47_area=m:\tpcd\dbs\hundgig\
ts_o48_area=n:\tpcd\dbs\hundgig\
ts_o49_area=g:\tpcd\dbs\hundgig\
ts_o50_area=h:\tpcd\dbs\hundgig\
ts_o51_area=i:\tpcd\dbs\hundgig\
ts_o52_area=j:\tpcd\dbs\hundgig\
ts_o53_area=k:\tpcd\dbs\hundgig\
ts_o54_area=l:\tpcd\dbs\hundgig\
ts_o55_area=m:\tpcd\dbs\hundgig\
ts_o56_area=n:\tpcd\dbs\hundgig\
ts_o57_area=g:\tpcd\dbs\hundgig\
ts_o58_area=h:\tpcd\dbs\hundgig\
ts_o59_area=i:\tpcd\dbs\hundgig\
ts_o60_area=j:\tpcd\dbs\hundgig\
ts_o61_area=k:\tpcd\dbs\hundgig\
ts_o62_area=l:\tpcd\dbs\hundgig\
ts_o63_area=m:\tpcd\dbs\hundgig\
ts_o64_area=n:\tpcd\dbs\hundgig\
ts_o65_area=g:\tpcd\dbs\hundgig\
ts_o66_area=h:\tpcd\dbs\hundgig\
ts_o67_area=i:\tpcd\dbs\hundgig\
ts_o68_area=j:\tpcd\dbs\hundgig\
ts_o69_area=k:\tpcd\dbs\hundgig\
ts_o70_area=l:\tpcd\dbs\hundgig\
ts_o71_area=m:\tpcd\dbs\hundgig\
ts_o72_area=n:\tpcd\dbs\hundgig\
ts_o73_area=g:\tpcd\dbs\hundgig\
ts_o74_area=h:\tpcd\dbs\hundgig\
ts_o75_area=i:\tpcd\dbs\hundgig\
ts_o76_area=j:\tpcd\dbs\hundgig\
ts_o77_area=k:\tpcd\dbs\hundgig\
ts_o78_area=l:\tpcd\dbs\hundgig\
ts_o79_area=m:\tpcd\dbs\hundgig\
ts_o80_area=n:\tpcd\dbs\hundgig\

ts_c_group_#ts=5
ts_c_group_#files=16
ts_c_group_first_size=60m
ts_c_group_size=60m
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n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
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k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,&
n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,k:\tpcd\dbs\hundgig\,&
l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,&
g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,&
j:\tpcd\dbs\hundgig\,k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,&
m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,&
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i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,&
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n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
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g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,&
j:\tpcd\dbs\hundgig\,k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,&
m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,&
g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,&
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m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,&
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i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,&
k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,&
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m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,&
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m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,&
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n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,&
k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,&
n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,k:\tpcd\dbs\hundgig\,&
l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,&
g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,&
j:\tpcd\dbs\hundgig\,k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,&
m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,&
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m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,&
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k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,&
n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,&
k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,&
n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,k:\tpcd\dbs\hundgig\,&
l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,&
g:\tpcd\dbs\hundgig\
```

```
ts_ind5_#files=160
#ts_ind5_first_size=420m
#ts_ind5_size=420m
ts_ind5_first_size=260m
ts_ind5_size=260m
ts_ind5_storage=(initial 10m next 10m maxextents unlimited pctincrease
0)
ts_ind5_datafiles=ts_ind5_#
ts_ind5_area=g:\tpcd\dbs\hundgig\
ts_ind5_areas=h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,&
j:\tpcd\dbs\hundgig\,k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,&
m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,&
h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,&
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n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,&
k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,&
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m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,&
g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,&
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m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,&
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k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,&
n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
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k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,m:\tpcd\dbs\hundgig\,&
n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,&
i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,k:\tpcd\dbs\hundgig\,&
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g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,&
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m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,&
g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,&
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m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\,g:\tpcd\dbs\hundgig\,&
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i:\tpcd\dbs\hundgig\,j:\tpcd\dbs\hundgig\,&
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g:\tpcd\dbs\hundgig\,h:\tpcd\dbs\hundgig\,i:\tpcd\dbs\hundgig\,&
j:\tpcd\dbs\hundgig\,k:\tpcd\dbs\hundgig\,l:\tpcd\dbs\hundgig\,&
m:\tpcd\dbs\hundgig\,n:\tpcd\dbs\hundgig\

#ts_ind6_#files=64
#ts_ind6_first_size=1500m
#ts_ind6_size=1500m
#ts_ind6_storage=(initial 5m next 16m maxextents unlimited pctincrease
0)
#ts_ind6_datafiles=ts_ind6_#

# load parameters

load_flatfile_area = f:\tpcd\data\hundgig\
load_controlfile_area = d:\tpcd\loadctl\hundgig\
load_otherfile_area = d:\tpcd\log\hundgig\
load_unrecoverable = true
load_insert_type = append
load_type = delim
load_field_terminator = '|'
load_deg_parallel = 80
#load_tables =
region,nation,parts,supplier,customer,partsupp,orders,lineitem
load_tables =
lineitem,orders,partsupp,parts,customer,supplier,nation,region

#skip_mk_ldctlfs = lineitem,orders,customer
skip_mk_ldctlfs = lineitem,orders,customer,parts
load_use_pipes = lineitem,orders,partsupp,parts,customer,supplier
load_dbgen_partition = lineitem,orders,customer,parts

load_dbgen_def_option_C = 1
load_dbgen_def_input_params = d:\tpcd\dout\hundgig\params.part

load_dbgen_lineitem_option_C = 160
load_dbgen_orders_option_C = 160
load_dbgen_partsupp_option_C = 160
load_dbgen_parts_option_C = 50
load_dbgen_customer_option_C = 160
load_dbgen_supplier_option_C = 160

load_dbgen_lineitem_input_params = d:\tpcd\dout\hundgig\item.part
load_dbgen_orders_input_params = d:\tpcd\dout\hundgig\ord.part
load_dbgen_customer_input_params = d:\tpcd\dout\hundgig\cust.part
load_dbgen_parts_input_params = d:\tpcd\dout\hundgig\parts.part

load_dbgen_lineitem_output_prefix = f:\tpcd\data\hundgig\lineitem#
#load_dbgen_orders_output_prefix = f:\tpcd\data\hundgig\order#
load_dbgen_orders_output_prefix = f:\tpcd\data\hundgig\orders#
load_dbgen_customer_output_prefix = f:\tpcd\data\hundgig\customer#
load_dbgen_parts_output_prefix = f:\tpcd\data\hundgig\parts#

# table load definitions

tab_lineitem_load_direct = true
tab_orders_load_direct = true
tab_partsupp_load_direct = true
tab_customer_load_direct = true
tab_parts_load_direct = true
tab_supplier_load_direct = true
tab_nation_load_direct = true
tab_region_load_direct = true

tab_lineitem_loadextent = 460m
tab_orders_loadextent = 112m
tab_partsupp_loadextent = 83m
tab_customer_loadextent = 19m
tab_parts_loadextent = 2m
tab_supplier_loadextent = 10m

tab_orders_load_degpar = 160
tab_lineitem_load_degpar = 160
tab_parts_load_degpar = 1
tab_customer_load_degpar = 160
tab_supplier_load_degpar = 160
tab_partsupp_load_degpar = 160
tab_nation_load_degpar = 1
tab_region_load_degpar = 1

tab_nation_load_datf = nation.tbl
tab_region_load_datf = region.tbl
#tab_orders_load_datf = order#.#
#tab_parts_load_datf = part#.#
tab_orders_load_datf = orders#.#
tab_parts_load_datf = parts1.#
tab_partsupp_load_datf = partsupp.tbl.#
tab_customer_load_datf = customer#.#
tab_supplier_load_datf = supplier.tbl.#
tab_lineitem_load_datf = lineitem#.#

tab_orders_load_ctlf = order#.ctl
tab_lineitem_load_ctlf = lineitem#.ctl
tab_parts_load_ctlf = parts#.ctl
tab_partsupp_load_ctlf = partsupp.ctl
tab_customer_load_ctlf = customer#.ctl
tab_supplier_load_ctlf = supplier.ctl

tab_orders_load_logf = orders#.log
tab_lineitem_load_logf = lineitem#.log
tab_parts_load_logf = parts#.log
tab_partsupp_load_logf = psup#.log
tab_customer_load_logf = customer#.log
tab_supplier_load_logf = supplier#.log
tab_region_load_logf = region.log
tab_nation_load_logf = nation.log

tab_region_load_filf = d:\tpcd\dbs\hundgig\sys.dbf
tab_nation_load_filf = d:\tpcd\dbs\hundgig\sys.dbf
tab_lineitem_load_filf = alltsdatafiles
tab_orders_load_filf = alltsdatafiles
tab_customer_load_filf = alltsdatafiles
tab_parts_load_filf = alltsdatafiles
tab_partsupp_load_filf = ts_ps_#
tab_supplier_load_filf = ts_s_#

# loading storage parameters

tab_lineitem_storage = (initial 64k next 460m freelists 16 freelist
groups 5 pctincrease 0)
tab_orders_storage = (initial 64k next 112m freelists 16 freelist
groups 5 pctincrease 0)
tab_partsupp_storage = (initial 64k next 83m pctincrease 0)
tab_parts_storage = (initial 64k next 2m pctincrease 0)
tab_customer_storage = (initial 64k next 19m pctincrease 0)
tab_supplier_storage = (initial 64k next 10m pctincrease 0)
tab_nation_loadextent = 64k
tab_region_loadextent = 64k
tab_lineitem_storage_alter = (next 5m pctincrease 0)
tab_orders_storage_alter = (next 2m pctincrease 0)
tab_lineitem_storage_part_alter = (next 5m maxextents unlimited)
tab_orders_storage_part_alter = (next 2m maxextents unlimited)
# table creation parameters

# reordering
tab_lineitem_columns=l_shipdate,l_orderkey,l_discount,l_extendedprice,
l_suppkey,l_quantity,l_returnflag,l_partkey,l_linestatus,l_tax,l_commi
tdate,l_receiptdate,l_shipmode,l_linenumber,l_shipinstruct,l_comment
tab_lineitem_%f = 1
tab_lineitem_%u = 99
tab_lineitem_it=10
tab_lineitem_ts = ts_l1
tab_lineitem_pardeg = 60
tab_lineitem_parinst = 1
tab_lineitem_#part = 80
tab_lineitem_partnames = item#
tab_lineitem_partcol = l_shipdate
tab_lineitem_part_ts = ts_l#
tab_lineitem_l_shipdate_date_format = YYYY-MM-DD
tab_lineitem_l_shipdate_partvals= 1992-03-24,1992-05-01,1992-06-
01,1992-07-01,1992-08-01,1992-09-01,1992-10-01,1992-11-01,1992-12-
01,1993-01-01,1993-02-01,1993-03-01,1993-04-01,1993-05-01,1993-06-
01,1993-07-01,1993-08-01,1993-09-01,1993-10-01,1993-11-01,1993-12-
01,1994-01-01,1994-02-01,1994-03-01,1994-04-01,1994-05-01,1994-06-
01,1994-07-01,1994-08-01,1994-09-01,1994-10-01,1994-11-01,1994-12-
01,1995-01-01,1995-02-01,1995-03-01,1995-04-01,1995-05-01,1995-06-
01,1995-07-01,1995-08-01,1995-09-01,1995-10-01,1995-11-01,1995-12-
01,1996-01-01,1996-02-01,1996-03-01,1996-04-01,1996-05-01,1996-06-
01,1996-07-01,1996-08-01,1996-09-01,1996-10-01,1996-11-01,1996-12-
01,1997-01-01,1997-02-01,1997-03-01,1997-04-01,1997-05-01,1997-06-
01,1997-07-01,1997-08-01,1997-09-01,1997-10-01,1997-11-01,1997-12-
01,1998-01-01,1998-02-01,1998-03-01,1998-04-01,1998-05-01,1998-06-
01,1998-07-01,1998-08-01,1998-09-01,1998-10-01,1999-01-01
tab_lineitem_l_orderkey_cons=NOT NULL
tab_lineitem_l_suppkey_cons=NOT NULL
tab_lineitem_l_partkey_cons=NOT NULL
tab_lineitem_l_tax_cons=NOT NULL
tab_lineitem_l_linenumber_cons=NOT NULL
#tab_lineitem_nolg=true

tab_orders_columns=o_orderdate,o_orderkey,o_custkey,o_orderpriority,o_
shippriority,o_clerk,o_orderstatus,o_totalprice,o_comment
tab_orders_%f = 1
tab_orders_%u = 99
tab_orders_it=10
tab_orders_ts = ts_o1
tab_orders_pardeg = 60
tab_orders_parinst = 1
tab_orders_#part = 80
tab_orders_partnames = ord#
tab_orders_part_ts = ts_o#
tab_orders_o_orderdate_date_format = YYYY-MM-DD
tab_orders_partcol = o_orderdate
tab_orders_o_orderdate_partvals = 1992-02-01,1992-03-01,1992-04-
01,1992-05-01,1992-06-01,1992-07-01,1992-08-01,1992-09-01,1992-10-
01,1992-11-01,1992-12-01,1993-01-01,1993-02-01,1993-03-01,1993-04-
01,1993-05-01,1993-06-01,1993-07-01,1993-08-01,1993-09-01,1993-10-
01,1993-11-01,1993-12-01,1994-01-01,1994-02-01,1994-03-01,1994-04-
01,1994-05-01,1994-06-01,1994-07-01,1994-08-01,1994-09-01,1994-10-
01,1994-11-01,1994-12-01,1995-01-01,1995-02-01,1995-03-01,1995-04-
01,1995-05-01,1995-06-01,1995-07-01,1995-08-01,1995-09-01,1995-10-
01,1995-11-01,1995-12-01,1996-01-01,1996-02-01,1996-03-01,1996-04-
01,1996-05-01,1996-06-01,1996-07-01,1996-08-01,1996-09-01,1996-10-
01,1996-11-01,1996-12-01,1997-01-01,1997-02-01,1997-03-01,1997-04-
01,1997-05-01,1997-06-01,1997-07-01,1997-08-01,1997-09-01,1997-10-
01,1997-11-01,1997-12-01,1998-01-01,1998-02-01,1998-03-01,1998-04-
01,1998-05-01,1998-06-01,1998-07-01,1998-08-01,1998-09-01
tab_orders_o_orderkey_cons=NOT NULL
tab_orders_o_custkey_cons=NOT NULL
#tab_orders_nolg=true

tab_partsupp_columns=ps_partkey,ps_suppkey,ps_supplycost,ps_availqty,p
s_comment
```

```
tab_partsupp_%f = 0
tab_partsupp_%u = 99
tab_partsupp_ts = ts_ps
#tab_partsupp_pardeg = 60
#tab_partsupp_pardeg = 1
#tab_partsupp_parinst = 1
tab_partsupp_ps_partkey_cons=NOT NULL
tab_partsupp_ps_suppkey_cons=NOT NULL
tab_partsupp_ps_supplycost_cons=NOT NULL

con_constraints = pkpsup
con_pkpsup_table = partsupp
con_pkpsup_columns = ps_partkey,ps_suppkey
con_pkpsup_constraint = primary key
con_pkpsup_disable = true
con_pkpsup_has_index = true
con_pkpsup_novalidate = true

tab_parts_columns=p_partkey,p_type,p_size,p_brand,p_name,p_container,p
_mfgr,p_retailprice,p_comment
tab_parts_%f = 0
tab_parts_%u = 99
tab_parts_ts = ts_p1
tab_parts_#part = 50
tab_parts_partnames = part#
tab_parts_part_ts = ts_p#
tab_parts_partcol = p_size
tab_parts_p_size_partvals =
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,
28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,5
1
tab_parts_pardeg = 60
tab_parts_parinst = 1
tab_parts_p_partkey_cons=NOT NULL

tab_customer_columns=c_custkey,c_mktsegment,c_nationkey,c_name,c_addre
ss,c_phone,c_acctbal,c_comment
tab_customer_%f = 0
tab_customer_%u = 99
tab_customer_ts = ts_c1
tab_customer_pardeg = 60
tab_customer_parinst = 1
tab_customer_#part = 5
tab_customer_partnames = cust#
tab_customer_part_ts = ts_c#
tab_customer_partcol = c_mktsegment
tab_customer_c_mktsegment_partvals =
AUTOMOBILF,BUILDINH,FURNITURF,HOUSEHOLE,MACHINERZ
tab_customer_c_custkey_cons=NOT NULL

tab_supplier_columns=s_suppkey,s_nationkey,s_comment,s_name,s_address,
s_phone,s_acctbal
tab_supplier_%f = 0
tab_supplier_%u = 99
tab_supplier_ts = ts_s
tab_supplier_pardeg = 60
tab_supplier_parinst = 1
tab_supplier_s_suppkey_cons=NOT NULL

tab_nation_ts = system
tab_nation_n_nationkey_cons=NOT NULL

tab_region_ts = system
tab_nation_n_nationkey_cons=NOT NULL


#ind_indices =
l_sdqepso,l_rossc,l_ored,l_pqesod,o_clokod,o_op,ps_pksksc,ps_spsa,p_cb
p,p_sptm,p_tp,s_skey,s_sn
#ind_indices =
l_rossc,l_ored,l_pqesod,o_clokod,o_op,ps_pksksc,ps_spsa,p_sptm,s_skey,
s_sn
ind_indices =
ps_pksk,ps_pksksc,ps_spsa,l_ored,o_clokod,l_pqesod,l_rossc,o_op,p_sptm
,s_skey,s_sn

ind_l_ored_table = lineitem
ind_l_ored_tabcols =
l_orderkey,l_returnflag,l_extendedprice,l_discount
ind_l_ored_storage = (initial 5m next 5m freelists 16 freelist groups
5 maxextents unlimited pctincrease 0)
ind_l_ored_storage_alter = (next 2m)
ind_l_ored_storage_part_alter = (next 1m maxextents unlimited)
ind_l_ored_ts = ts_ind1
ind_l_ored_%f = 2
ind_l_ored_it = 10
#ind_l_ored_nolg = TRUE
#ind_l_ored_pardeg = 160
ind_l_ored_pardeg = 60
ind_l_ored_parinst = 1

ind_l_sdqepso_table = lineitem
ind_l_sdqepso_tabcols =
l_shipdate,l_discount,l_quantity,l_extendedprice,l_partkey,l_suppkey,l
_orderkey
ind_l_sdqepso_storage = (initial 5m next 5m freelists 16 freelist
groups 5 maxextents unlimited pctincrease 0)
ind_l_sdqepso_storage_alter = (next 2m)
ind_l_sdqepso_ts = ts_ind5
ind_l_sdqepso_%f = 2
ind_l_sdqepso_it = 10
#ind_l_sdqepso_nolg = TRUE
#ind_l_sdqepso_pardeg = 160
ind_l_sdqepso_pardeg = 60
ind_l_sdqepso_parinst = 1
ind_l_sdqepso_partition = local
ind_l_sdqepso_partnames = lsdqepso#

ind_l_rssco_table = lineitem
ind_l_rssco_tabcols =
l_receiptdate,l_shipmode,l_shipdate,l_commitdate,l_orderkey
ind_l_rssco_storage = (initial 5m next 5m freelists 16 freelist groups
5 maxextents unlimited pctincrease 0)
ind_l_rssco_storage_alter = (next 2m)
ind_l_rssco_ts = ts_ind5
ind_l_rssco_%f = 2
ind_l_rssco_it = 10
#ind_l_rssco_nolg = TRUE
#ind_l_rssco_pardeg = 160
ind_l_rssco_pardeg = 60
ind_l_rssco_parinst = 1
ind_l_rssco_partcol = l_receiptdate
ind_l_rssco_l_receiptdate_partvals = 1992-02-01,1992-03-01,1992-04-
01,1992-05-01,1992-06-01,1992-07-01,1992-08-01,1992-09-01,1992-10-
01,1992-11-01,1992-12-01,1993-01-01,1993-02-01,1993-03-01,1993-04-
01,1993-05-01,1993-06-01,1993-07-01,1993-08-01,1993-09-01,1993-10-
01,1993-11-01,1993-12-01,1994-01-01,1994-02-01,1994-03-01,1994-04-
01,1994-05-01,1994-06-01,1994-07-01,1994-08-01,1994-09-01,1994-10-
01,1994-11-01,1994-12-01,1995-01-01,1995-02-01,1995-03-01,1995-04-
01,1995-05-01,1995-06-01,1995-07-01,1995-08-01,1995-09-01,1995-10-
01,1995-11-01,1995-12-01,1996-01-01,1996-02-01,1996-03-01,1996-04-
01,1996-05-01,1996-06-01,1996-07-01,1996-08-01,1996-09-01,1996-10-
01,1996-11-01,1996-12-01,1997-01-01,1997-02-01,1997-03-01,1997-04-
01,1997-05-01,1997-06-01,1997-07-01,1997-08-01,1997-09-01,1997-10-
01,1997-11-01,1997-12-01,1998-01-01,1998-02-01,1998-03-01,1998-04-
01,1998-05-01,1998-06-01,1998-07-01,1998-08-01,MAXVALUE
ind_l_rssco_partition = global
ind_l_rssco_partnames = lrssco#
ind_l_rssco_#part = 80

ind_l_rossc_table = lineitem
ind_l_rossc_tabcols =
l_receiptdate,l_orderkey,l_shipmode,l_shipdate,l_commitdate
ind_l_rossc_storage = (initial 5m next 5m freelists 16 freelist groups
5 maxextents unlimited pctincrease 0)
ind_l_rossc_storage_alter = (next 2m)
ind_l_rossc_storage_part_alter = (next 1m maxextents unlimited)
ind_l_rossc_ts = ts_ind5
ind_l_rossc_%f = 2
ind_l_rossc_it = 10
#ind_l_rossc_nolg = TRUE
#ind_l_rossc_pardeg = 160
ind_l_rossc_pardeg = 60
ind_l_rossc_partcol = l_receiptdate
ind_l_rossc_l_receiptdate_partvals = 1992-02-01,1992-03-01,1992-04-
01,1992-05-01,1992-06-01,1992-07-01,1992-08-01,1992-09-01,1992-10-
01,1992-11-01,1992-12-01,1993-01-01,1993-02-01,1993-03-01,1993-04-
01,1993-05-01,1993-06-01,1993-07-01,1993-08-01,1993-09-01,1993-10-
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01,1994-11-01,1994-12-01,1995-01-01,1995-02-01,1995-03-01,1995-04-
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01,1995-11-01,1995-12-01,1996-01-01,1996-02-01,1996-03-01,1996-04-
01,1996-05-01,1996-06-01,1996-07-01,1996-08-01,1996-09-01,1996-10-
01,1996-11-01,1996-12-01,1997-01-01,1997-02-01,1997-03-01,1997-04-
01,1997-05-01,1997-06-01,1997-07-01,1997-08-01,1997-09-01,1997-10-
01,1997-11-01,1997-12-01,1998-01-01,1998-02-01,1998-03-01,1998-04-
01,1998-05-01,1998-06-01,1998-07-01,1998-08-01,MAXVALUE
ind_l_rossc_partition = global
ind_l_rossc_partnames = lrossc#
ind_l_rossc_#part = 80
ind_l_rossc_parinst = 1

ind_l_pqesod_table = lineitem
# changed key order for q17b - Ari 5/5
#ind_l_pqesod_tabcols =
l_partkey,l_shipdate,l_quantity,l_extendedprice,l_suppkey,l_orderkey,l
_discount
ind_l_pqesod_tabcols =
l_partkey,l_quantity,l_extendedprice,l_suppkey,l_orderkey,l_discount
ind_l_pqesod_storage = (initial 5m next 5m freelists 16 freelist
groups 5 maxextents unlimited pctincrease 0)
ind_l_pqesod_storage_alter = (next 2m)
ind_l_pqesod_storage_part_alter = (next 1m maxextents unlimited)
#ind_l_pqesod_ts = ts_ind2
ind_l_pqesod_ts = ts_ind1
ind_l_pqesod_%f = 2
ind_l_pqesod_it = 10
#ind_l_pqesod_nolg = TRUE
#ind_l_pqesod_pardeg = 160
ind_l_pqesod_pardeg = 60
#ind_l_pqesod_pardeg_alter = 1
#ind_l_pqesod_partition = local
#ind_l_pqesod_partnames = lpqesod#
ind_l_pqesod_parinst = 1

ind_o_clokod_table = orders
ind_o_clokod_tabcols = o_clerk,o_orderkey,o_orderdate
ind_o_clokod_storage = (initial 5m next 5m freelists 16 freelist
groups 5 maxextents unlimited pctincrease 0)
ind_o_clokod_storage_alter = (next 2m)
ind_o_clokod_storage_part_alter = (next 1m maxextents unlimited)
ind_o_clokod_ts = ts_ind3
ind_o_clokod_%f = 2
ind_o_clokod_it = 10
#ind_o_clokod_nolg = TRUE
#ind_o_clokod_pardeg = 160
ind_o_clokod_pardeg = 60
ind_o_clokod_parinst = 1
#ind_o_clokod_partition = global
ind_o_clokod_partition = local
ind_o_clokod_partnames = oclokod#
#ind_o_clokod_#part = 80
#ind_o_clokod_partnames = oclokod#
#ind_o_clokod_partcol = o_clerk
#ind_o_clokod_o_clerk_partvals =
Clerk#000012501,Clerk#000025001,Clerk#000037501,Clerk#000050001,Clerk#
000062501,Clerk#000075001,Clerk#000087501,Clerk#000100001,Clerk#000112
501,Clerk#000125001,Clerk#000137501,Clerk#000150001,Clerk#000162501,Cl
erk#000175001,Clerk#000187501,Clerk#000200001,Clerk#000212501,Clerk#00
0225001,Clerk#000237501,Clerk#000250001,Clerk#000262501,Clerk#00027500
1,Clerk#000287501,Clerk#000300001,Clerk#000312501,Clerk#000325001,Cler
k#000337501,Clerk#000350001,Clerk#000362501,Clerk#000375001,Clerk#0003
87501,Clerk#000400001,Clerk#000412501,Clerk#000425001,Clerk#000437501,
Clerk#000450001,Clerk#000462501,Clerk#000475001,Clerk#000487501,Clerk#
000500001,Clerk#000512501,Clerk#000525001,Clerk#000537501,Clerk#000550
001,Clerk#000562501,Clerk#000575001,Clerk#000587501,Clerk#000600001,Cl
erk#000612501,Clerk#000625001,Clerk#000637501,Clerk#000650001,Clerk#00
0662501,Clerk#000675001,Clerk#000687501,Clerk#000700001,Clerk#00071250
1,Clerk#000725001,Clerk#000737501,Clerk#000750001,Clerk#000762501,Cler
k#000775001,Clerk#000787501,Clerk#000800001,Clerk#000812501,Clerk#0008
25001,Clerk#000837501,Clerk#000850001,Clerk#000862501,Clerk#000875001,
Clerk#000887501,Clerk#000900001,Clerk#000912501,Clerk#000925001,Clerk#
000937501,Clerk#000950001,Clerk#000962501,Clerk#000975001,Clerk#000987
501,MAXVALUE

ind_o_op_table = orders
ind_o_op_unique = true
ind_o_op_tabcols = o_orderkey,o_orderpriority
ind_o_op_storage = (initial 5m next 5m freelists 16 freelist groups 5
maxextents unlimited pctincrease 0)
ind_o_op_storage_alter = (next 2m)
ind_o_op_ts = ts_ind3
ind_o_op_%f = 2
ind_o_op_it = 10
#ind_o_op_nolg = TRUE
#ind_o_op_pardeg = 160
ind_o_op_pardeg = 60
ind_o_op_parinst = 1

ind_ps_skey_table = partsupp
ind_ps_skey_tabcols = ps_suppkey
ind_ps_skey_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_ps_skey_ts = ts_ind4
ind_ps_skey_%f = 1
```

Appendix B

```
#ind_ps_skey_nolg = TRUE
#ind_ps_skey_pardeg = 160
ind_ps_skey_pardeg = 60
ind_ps_skey_parinst = 1

ind_ps_pksk_table = partsupp
ind_ps_pksk_unique = true
ind_ps_pksk_tabcols = ps_partkey,ps_suppkey
ind_ps_pksk_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_ps_pksk_ts = ts_ind4
ind_ps_pksk_%f = 1
#ind_ps_pksk_nolg = TRUE
#ind_ps_pksk_pardeg = 160
ind_ps_pksk_pardeg = 60
#ind_ps_pksk_pardeg_alter = 60
ind_ps_pksk_parinst = 1

ind_ps_pksksc_table = partsupp
ind_ps_pksksc_unique = true
ind_ps_pksksc_tabcols = ps_partkey,ps_suppkey,ps_supplycost
ind_ps_pksksc_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_ps_pksksc_ts = ts_ind4
ind_ps_pksksc_%f = 1
#ind_ps_pksksc_nolg = TRUE
#ind_ps_pksksc_pardeg = 160
ind_ps_pksksc_pardeg = 60
ind_ps_pksksc_pardeg_alter = 20
ind_ps_pksksc_parinst = 1

ind_ps_spsa_table = partsupp
ind_ps_spsa_unique = true
ind_ps_spsa_tabcols = ps_suppkey,ps_partkey,ps_supplycost,ps_availqty
ind_ps_spsa_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_ps_spsa_ts = ts_ind4
ind_ps_spsa_%f = 1
#ind_ps_spsa_nolg = TRUE
#ind_ps_spsa_pardeg = 160
ind_ps_spsa_pardeg = 60
ind_ps_spsa_pardeg_alter = 1
ind_ps_spsa_parinst = 1

ind_p_stpm_table = parts
ind_p_stpm_unique = true
ind_p_stpm_tabcols = p_size,p_type,p_partkey,p_mfgr
ind_p_stpm_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_p_stpm_ts = ts_ind4
ind_p_stpm_%f = 1
#ind_p_stpm_nolg = TRUE
#ind_p_stpm_pardeg = 160
ind_p_stpm_pardeg = 60
ind_p_stpm_parinst = 1

ind_p_pkey_table = parts
ind_p_pkey_unique = true
ind_p_pkey_tabcols = p_partkey
ind_p_pkey_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_p_pkey_ts = ts_ind4
ind_p_pkey_%f = 1
#ind_p_pkey_nolg = TRUE
ind_p_pkey_pardeg = 60
ind_p_pkey_parinst = 1

ind_p_sptm_table = parts
ind_p_sptm_unique = true
ind_p_sptm_tabcols = p_size,p_partkey,p_type,p_mfgr
ind_p_sptm_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_p_sptm_ts = ts_ind5
ind_p_sptm_%f = 1
#ind_p_sptm_nolg = TRUE
ind_p_sptm_pardeg = 60
ind_p_sptm_parinst = 1
#ind_p_sptm_partition = global
ind_p_sptm_partition = local
ind_p_sptm_partnames = psptm#
#ind_p_sptm_#part = 50
#ind_p_sptm_partcol = p_size
#ind_p_sptm_p_size_partvals =
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,M
AXVALUE

ind_p_cbp_table = parts
ind_p_cbp_tabcols = p_container,p_brand,p_partkey
ind_p_cbp_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_p_cbp_ts = ts_ind4
ind_p_cbp_%f = 1
#ind_p_cbp_nolg = TRUE
ind_p_cbp_pardeg = 60
ind_p_cbp_parinst = 1
ind_p_cbp_partition = global
ind_p_cbp_#part = 1000
ind_p_cbp_partnames = pcbp#
ind_p_cbp_partcol = p_container,p_brand
ind_p_cbp_p_brand_partvals=Brand#111,Brand#121,Brand#131,Brand#141,Bra
nd#151,Brand#211,Brand#221,Brand#231,Brand#241,Brand#251,&
Brand#311,Brand#321,Brand#331,Brand#341,Brand#351,Brand#411,Brand#421,
Brand#431,Brand#441,Brand#451,&
Brand#511,Brand#521,Brand#531,Brand#541,Brand#551,Brand#111,Brand#121,
Brand#131,Brand#141,Brand#151,&
Brand#211,Brand#221,Brand#231,Brand#241,Brand#251,Brand#311,Brand#321,
Brand#331,Brand#341,Brand#351,&
Brand#411,Brand#421,Brand#431,Brand#441,Brand#451,Brand#511,Brand#521,
Brand#531,Brand#541,Brand#551,&
Brand#111,Brand#121,Brand#131,Brand#141,Brand#151,Brand#211,Brand#221,
Brand#231,Brand#241,Brand#251,&
Brand#311,Brand#321,Brand#331,Brand#341,Brand#351,Brand#411,Brand#421,
Brand#431,Brand#441,Brand#451,&
Brand#511,Brand#521,Brand#531,Brand#541,Brand#551,Brand#111,Brand#121,
Brand#131,Brand#141,Brand#151,&
Brand#211,Brand#221,Brand#231,Brand#241,Brand#251,Brand#311,Brand#321,
Brand#331,Brand#341,Brand#351,&
Brand#411,Brand#421,Brand#431,Brand#441,Brand#451,Brand#511,Brand#521,
Brand#531,Brand#541,Brand#551,&
Brand#111,Brand#121,Brand#131,Brand#141,Brand#151,Brand#211,Brand#221,Brand#231,Brand#24
1,Brand#251,&
Brand#311,Brand#321,Brand#331,Brand#341,Brand#351,Brand#411,Brand#421,Brand#431,Brand#44
1,Brand#451,&
Brand#511,Brand#521,Brand#531,Brand#541,Brand#551,Brand#111,Brand#121,Brand#131,Brand#14
1,Brand#151,&
Brand#211,Brand#221,Brand#231,Brand#241,Brand#251,Brand#311,Brand#321,Brand#331,Brand#34
1,Brand#351,&
Brand#411,Brand#421,Brand#431,Brand#441,Brand#451,Brand#511,Brand#521,Brand#531,Brand#54
1,Brand#551,&
Brand#111,Brand#121,Brand#131,Brand#141,Brand#151,Brand#211,Brand#221,Brand#231,Brand#24
1,Brand#251,&
Brand#311,Brand#321,Brand#331,Brand#341,Brand#351,Brand#411,Brand#421,Brand#431,Brand#44
1,Brand#451,&
Brand#511,Brand#521,Brand#531,Brand#541,Brand#551,Brand#111,Brand#121,Brand#131,Brand#14
1,Brand#151,&
Brand#211,Brand#221,Brand#231,Brand#241,Brand#251,Brand#311,Brand#321,Brand#331,Brand#34
1,Brand#351,&
Brand#411,Brand#421,Brand#431,Brand#441,Brand#451,Brand#511,Brand#521,Brand#531,Brand#54
1,Brand#551,&
Brand#111,Brand#121,Brand#131,Brand#141,Brand#151,Brand#211,Brand#221,Brand#231,Brand#24
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Brand#311,Brand#321,Brand#331,Brand#341,Brand#351,Brand#411,Brand#421,Brand#431,Brand#44
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Brand#511,Brand#521,Brand#531,Brand#541,Brand#551,Brand#111,Brand#121,Brand#131,Brand#14
1,Brand#151,&
Brand#211,Brand#221,Brand#231,Brand#241,Brand#251,Brand#311,Brand#321,Brand#331,Brand#34
1,Brand#351,&
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pctincrease 0)
ind_p_conbr_ts = ts_ind4
ind_p_conbr_%f = 1
#ind_p_conbr_nolg = TRUE
#ind_p_conbr_pardeg = 80
ind_p_conbr_pardeg = 60
ind_p_conbr_parinst = 1
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CASE,LG DRUM,LG JAR,LG PACK,LG PKG,MED BAG,MED BOX,MED CAN,MED
CASE,MED DRUM,MED JAR,MED PACK,MED PKG,SM BAG,SM BOX,SM CAN,SM CASE,SM
DRUM,SM JAR,SM PACK,SM PKG,WRAP BAG,WRAP BOX,WRAP CAN,WRAP CASE,WRAP
DRUM,WRAP JAR,WRAP PACK,WRAP PKG,MAXVALUE

ind_p_tp_table = parts
ind_p_tp_tabcols = p_type,p_partkey
ind_p_tp_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_p_tp_ts = ts_ind5
ind_p_tp_%f = 1
#ind_p_tp_nolg = TRUE
ind_p_tp_pardeg = 60
ind_p_tp_parinst = 1
ind_p_tp_partition = global
ind_p_tp_#part = 150
ind_p_tp_partnames = ptp#
ind_p_tp_partcol = p_type
ind_p_tp_p_type_partvals = ECONOMY ANODIZED COPPER,ECONOMY ANODIZED
NICKEL,ECONOMY ANODIZED STEEL,ECONOMY ANODIZED TIN,&
ECONOMY BRUSHED BRASS,ECONOMY BRUSHED COPPER,ECONOMY BRUSHED
NICKEL,ECONOMY BRUSHED STEEL,&
ECONOMY BRUSHED TIN,ECONOMY BURNISHED BRASS,ECONOMY BURNISHED
COPPER,ECONOMY BURNISHED NICKEL,&
ECONOMY BURNISHED STEEL,ECONOMY BURNISHED TIN,ECONOMY PLATED
BRASS,ECONOMY PLATED COPPER,&
ECONOMY PLATED NICKEL,ECONOMY PLATED STEEL,ECONOMY PLATED TIN,ECONOMY
POLISHED BRASS,&
ECONOMY POLISHED COPPER,ECONOMY POLISHED NICKEL,ECONOMY POLISHED
STEEL,ECONOMY POLISHED TIN,&
LARGE ANODIZED BRASS,LARGE ANODIZED COPPER,LARGE ANODIZED NICKEL,LARGE
ANODIZED STEEL,&
LARGE ANODIZED TIN,LARGE BRUSHED BRASS,LARGE BRUSHED COPPER,LARGE
BRUSHED NICKEL,&
LARGE BRUSHED STEEL,LARGE BRUSHED TIN,LARGE BURNISHED BRASS,LARGE
BURNISHED COPPER,&
LARGE BURNISHED NICKEL,LARGE BURNISHED STEEL,LARGE BURNISHED TIN,LARGE
PLATED BRASS,&
LARGE PLATED COPPER,LARGE PLATED NICKEL,LARGE PLATED STEEL,LARGE
PLATED TIN,&
LARGE POLISHED BRASS,LARGE POLISHED COPPER,LARGE POLISHED NICKEL,LARGE
POLISHED STEEL,&
LARGE POLISHED TIN,MEDIUM ANODIZED BRASS,MEDIUM ANODIZED COPPER,MEDIUM
ANODIZED NICKEL,&
MEDIUM ANODIZED STEEL,MEDIUM ANODIZED TIN,MEDIUM BRUSHED BRASS,MEDIUM BRUSHED COPPER,&
MEDIUM BRUSHED NICKEL,MEDIUM BRUSHED STEEL,MEDIUM BRUSHED TIN,MEDIUM BURNISHED BRASS,&
MEDIUM BURNISHED COPPER,MEDIUM BURNISHED NICKEL,MEDIUM BURNISHED STEEL,MEDIUM BURNISHED
TIN,&
MEDIUM PLATED BRASS,MEDIUM PLATED COPPER,MEDIUM PLATED NICKEL,MEDIUM PLATED STEEL,&
MEDIUM PLATED TIN,MEDIUM POLISHED BRASS,MEDIUM POLISHED COPPER,MEDIUM POLISHED NICKEL,&
MEDIUM POLISHED STEEL,MEDIUM POLISHED TIN,PROMO ANODIZED BRASS,PROMO ANODIZED COPPER,&
PROMO ANODIZED NICKEL,PROMO ANODIZED STEEL,PROMO ANODIZED TIN,PROMO BRUSHED BRASS,&
PROMO BRUSHED COPPER,PROMO BRUSHED NICKEL,PROMO BRUSHED STEEL,PROMO BRUSHED TIN,&
PROMO BURNISHED BRASS,PROMO BURNISHED COPPER,PROMO BURNISHED NICKEL,PROMO BURNISHED
STEEL,&
PROMO BURNISHED TIN,PROMO PLATED BRASS,PROMO PLATED COPPER,PROMO PLATED NICKEL,&
PROMO PLATED STEEL,PROMO PLATED TIN,PROMO POLISHED BRASS,PROMO POLISHED COPPER,&
PROMO POLISHED NICKEL,PROMO POLISHED STEEL,PROMO POLISHED TIN,SMALL ANODIZED BRASS,&
SMALL ANODIZED COPPER,SMALL ANODIZED NICKEL,SMALL ANODIZED STEEL,SMALL ANODIZED TIN,&
SMALL BRUSHED BRASS,SMALL BRUSHED COPPER,SMALL BRUSHED NICKEL,SMALL BRUSHED STEEL,&
SMALL BRUSHED TIN,SMALL BURNISHED BRASS,SMALL BURNISHED COPPER,SMALL BURNISHED NICKEL,&
SMALL BURNISHED STEEL,SMALL BURNISHED TIN,SMALL PLATED BRASS,SMALL PLATED COPPER,&
SMALL PLATED NICKEL,SMALL PLATED STEEL,SMALL PLATED TIN,SMALL POLISHED BRASS,&
SMALL POLISHED COPPER,SMALL POLISHED NICKEL,SMALL POLISHED STEEL,SMALL POLISHED TIN,&
STANDARD ANODIZED BRASS,STANDARD ANODIZED COPPER,STANDARD ANODIZED NICKEL,STANDARD
ANODIZED STEEL,&
STANDARD ANODIZED TIN,STANDARD BRUSHED BRASS,STANDARD BRUSHED COPPER,STANDARD BRUSHED
NICKEL,&
STANDARD BRUSHED STEEL,STANDARD BRUSHED TIN,STANDARD BURNISHED BRASS,STANDARD BURNISHED
COPPER,&
STANDARD BURNISHED NICKEL,STANDARD BURNISHED STEEL,STANDARD BURNISHED TIN,STANDARD
PLATED BRASS,&
STANDARD PLATED COPPER,STANDARD PLATED NICKEL,STANDARD PLATED STEEL,STANDARD PLATED
TIN,&
STANDARD POLISHED BRASS,STANDARD POLISHED COPPER,STANDARD POLISHED
NICKEL,STANDARD POLISHED STEEL,&
STANDARD POLISHED TIN,MAXVALUE

ind_s_skey_table = supplier
ind_s_skey_unique = true
ind_s_skey_tabcols = s_suppkey
ind_s_skey_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_s_skey_ts = ts_ind4
ind_s_skey_%f = 2
#ind_s_skey_nolg = TRUE
#ind_s_skey_pardeg = 64
ind_s_skey_pardeg = 60
ind_s_skey_parinst = 1

ind_s_sn_table = supplier
ind_s_sn_unique = true
ind_s_sn_tabcols = s_suppkey,s_nationkey
ind_s_sn_storage = (initial 1m next 1m maxextents unlimited
pctincrease 0)
ind_s_sn_ts = ts_ind4
ind_s_sn_%f = 2
#ind_s_sn_nolg = TRUE
#ind_s_sn_pardeg = 64
ind_s_sn_pardeg = 60
ind_s_sn_parinst = 1

ind_r_rn_table = region
ind_r_rn_unique = true
ind_r_rn_tabcols = r_name,r_regionkey
ind_r_rn_storage = (initial 64k next 64k maxextents unlimited
pctincrease 0)
ind_r_rn_ts = system
ind_r_rn_%f = 2

# changed analyze levels from 200,000 rows per object to
# 10 percent and analyze order - Ari 5/5

#anl_objects =
l_ored,l_pqesod,o_clokod,o_op,ps_skey,ps_pksk,ps_pksksc,ps_spsa,s_skey
,p_conbr,r_rn,lineitem,orders,partsupp,parts,customer,supplier,nation,
region
#anl_objects =
l_ored,o_clokod,ps_skey,l_pqesod,ps_pksk,ps_pksksc,o_op,ps_spsa,s_skey
,p_conbr,r_rn,lineitem,orders,partsupp,parts,customer,supplier,nation,
region
```

Appendix B

```
#anl_objects =
l_ored,o_clokod,l_sdqepso,l_rossc,l_pqesod,ps_pksksc,o_op,ps_spsa,p_cbp,p_sptm,&
#p_tp,s_skey,s_sn,lineitem,orders,partsupp,parts,customer,supplier,nation,region
anl_objects =
l_pqesod,p_sptm,l_rossc,l_ored,s_sn,s_skey,o_op,o_clokod,&
lineitem,orders,parts,customer,supplier,nation,region,ps_spsa,ps_pksksc,&
ps_pksk,partsupp


anl_l_ored_type = index
#anl_l_ored_estimate = sample 200000 rows
anl_l_ored_estimate = sample 10 percent
anl_l_sdqepso_type = index
anl_l_sdqepso_estimate = sample 10 percent
anl_l_rssco_type = index
anl_l_rssco_estimate = sample 10 percent
anl_l_rossc_type = index
anl_l_rossc_estimate = sample 10 percent
anl_l_pqesod_type = index
#anl_l_pqesod_estimate = sample 2500 rows
anl_l_pqesod_estimate = sample 10 percent
anl_l_test_type = index
anl_l_test_estimate = sample 10 percent

anl_o_clokod_type = index
#anl_o_clokod_estimate = sample 2500 rows
anl_o_clokod_estimate = sample 10 percent
anl_o_op_type = index
#anl_o_op_estimate = sample 200000 rows
anl_o_op_estimate = sample 10 percent

anl_ps_skey_type = index
#anl_ps_skey_estimate = sample 200000 rows
anl_ps_skey_estimate = sample 10 percent
anl_ps_pksk_type = index
#anl_ps_pksk_estimate = sample 200000 rows
anl_ps_pksk_estimate = sample 10 percent
anl_ps_pksksc_type = index
#anl_ps_pksksc_estimate = sample 200000 rows
anl_ps_pksksc_estimate = sample 10 percent
anl_ps_spsa_type = index
#anl_ps_spsa_estimate = sample 200000 rows
anl_ps_spsa_estimate = sample 10 percent

anl_p_stpm_type = index
anl_p_stpm_estimate = sample 10 percent
anl_p_pkey_type = index
anl_p_pkey_estimate = sample 10 percent
anl_p_cbp_type = index
anl_p_cbp_estimate = sample 10 percent
anl_p_sptm_type = index
anl_p_sptm_estimate = sample 10 percent
anl_p_tp_type = index
anl_p_tp_estimate = sample 10 percent
anl_p_conbr_type = index
#anl_p_conbr_estimate = sample 5000 rows
anl_p_conbr_estimate = sample 10 percent

anl_s_skey_type = index
#anl_s_skey_estimate = sample 200000 rows
anl_s_skey_estimate = sample 10 percent
anl_s_sn_type = index
anl_s_sn_estimate = sample 10 percent

anl_r_rn_type = index
#anl_r_rn_estimate = sample 200000 rows
anl_r_rn_estimate = sample 10 percent


anl_lineitem_type = table
#anl_lineitem_estimate = sample 2500 rows
anl_lineitem_estimate = sample 10 percent
anl_orders_type = table
#anl_orders_estimate = sample 2500 rows
anl_orders_estimate = sample 10 percent
anl_partsupp_type = table
#anl_partsupp_estimate = sample 200000 rows
anl_partsupp_estimate = sample 10 percent
#anl_partsupp_estimate = sample 2 percent
anl_parts_type = table
#anl_parts_estimate = sample 4000 rows
anl_parts_estimate = sample 10 percent
anl_customer_type = table
#anl_customer_estimate = sample 40000 rows
anl_customer_estimate = sample 10 percent
anl_supplier_type = table
#anl_supplier_estimate = sample 200000 rows
anl_supplier_estimate = sample 10 percent
anl_nation_type = table
#anl_nation_estimate = sample 200000 rows
anl_nation_estimate = sample 10 percent
anl_region_type = table
#anl_region_estimate = sample 200000 rows
anl_region_estimate = sample 10 percent

#################################################################
### Section for testing and temporary fixes
#################################################################
#load_tables = lineitem
#tab_tables = lineitem
#ts_data_groups=
#s_data_names =
#ts_index_names = ts_ind5
#skip_ts = ts_data,ts_temp

#skip_create_user = true
#kip_create_tables = true

#load_tables = lineitem
#load_tables = orders,parts,partsupp,customer,supplier,nation,region
#load_tables =
lineitem,orders,parts,partsupp,customer,supplier,nation,region
#ind_indices = o_clokod
#con_constraints =

#anl_objects = l_pqesod,o_clokod,l_sdqepso,l_rssco,s_sn,p_stpm
#anlyz_max_bg = 1

#ind_indices=l_rossc,l_pqesod
#anl_objects=l_pqesod,l_sdqepso
#ind_indices=l_pqesod,l_sdqepso
#con_constraints=
```

BUILD.BAT

```
copy \tpcd\dbs\hundgig\p_build.ora \tpcd\dbs\hundgig\tkinit.ora
date/T  > ldeventlog.v1
time/T >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
echo "              database creation phase           " >>
ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
call run_dbcre.bat >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
echo "          table space creation phase            " >>
ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
call run_sctso.bat >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
echo "       user and table creation phase            " >>
ldeventlog.v1
echo "                database build/load STARTED     " >>
ldeventlog.v1
date/T >> ldeventlog.v1
time/T >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
call run_scuto.bat >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
echo "            database population phase           " >>
ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
call run_dapop.bat >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
echo "   change Oracle initialization parameters      " >>
ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
copy \tpcd\dbs\hundgig\p_index.ora \tpcd\dbs\hundgig\tkinit.ora
echo "************************************************" >>
ldeventlog.v1
echo "              index creation phase              " >>
ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
call run_ixcre.bat >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
echo "               analyze stats phase              " >>
ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
call run_anlyz.bat >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
echo "               database build/load COMPLETED    " >>
ldeventlog.v1
date/T >> ldeventlog.v1
time/T >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1

date/T  > ldeventsrc.v1
time/T >> ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
echo "              database creation phase           " >>
ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
cat 100g_dg_dbcre.dat >> ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
echo "          table space creation phase            " >>
ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
cat 100g_dg_sctso.dat >> ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
echo "       user and table creation phase            " >>
ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
cat 100g_dg_scuto.dat >> ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
echo "            database population phase           " >>
ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
cat 100g_dg_dapop.dat >> ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
echo "              index creation phase              " >>
ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
cat 100g_dg_ixcre.dat >> ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
echo "               analyze stats phase              " >>
ldeventsrc.v1
echo "************************************************" >>
ldeventsrc.v1
cat 100g_dg_anlyz.dat >> ldeventsrc.v1
```

LOAD.BAT

```
copy \tpcd\dbs\hundgig\p_build.ora \tpcd\dbs\hundgig\tkinit.ora
date/T  > ldeventlog.v1
time/T >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
echo "       user and table creation phase            " >>
ldeventlog.v1
echo "                database build/load STARTED     " >>
ldeventlog.v1
date/T >> ldeventlog.v1
time/T >> ldeventlog.v1
echo "************************************************" >>
ldeventlog.v1
```

```
call run_scuto.bat >> ldeventlog.v1
echo "*****************************************************" >>
ldeventlog.v1
echo "          database population phase                " >>
ldeventlog.v1
echo "*****************************************************" >>
ldeventlog.v1
call run_dapop.bat >> ldeventlog.v1
echo "*****************************************************" >>
ldeventlog.v1
echo "   change Oracle initialization parameters         " >>
ldeventlog.v1
echo "*****************************************************" >>
ldeventlog.v1
copy \tpcd\dbs\hundgig\p_index.ora \tpcd\dbs\hundgig\tkinit.ora
echo "*****************************************************" >>
ldeventlog.v1
echo "                index creation phase               " >>
ldeventlog.v1
echo "*****************************************************" >>
ldeventlog.v1
call run_ixcre.bat >> ldeventlog.v1
echo "*****************************************************" >>
ldeventlog.v1
echo "                 analyze stats phase               " >>
ldeventlog.v1
echo "*****************************************************" >>
ldeventlog.v1
call run_anlyz.bat >> ldeventlog.v1
echo "*****************************************************" >>
ldeventlog.v1
echo "                 database build/load COMPLETED     " >>
ldeventlog.v1
date/T >> ldeventlog.v1
time/T >> ldeventlog.v1
echo "*****************************************************" >>
ldeventlog.v1

date/T  > ldeventsrc.v1
time/T >> ldeventsrc.v1
echo "*****************************************************" >>
ldeventsrc.v1
echo "       user and table creation phase               " >>
ldeventsrc.v1
echo "*****************************************************" >>
ldeventsrc.v1
cat 100g_dg_scuto.dat >> ldeventsrc.v1
echo "*****************************************************" >>
ldeventsrc.v1
echo "          database population phase                " >>
ldeventsrc.v1
echo "*****************************************************" >>
ldeventsrc.v1
cat 100g_dg_dapop.dat >> ldeventsrc.v1
echo "*****************************************************" >>
ldeventsrc.v1
echo "                index creation phase               " >>
ldeventsrc.v1
echo "*****************************************************" >>
ldeventsrc.v1
cat 100g_dg_ixcre.dat >> ldeventsrc.v1
echo "*****************************************************" >>
ldeventsrc.v1
echo "                 analyze stats phase               " >>
ldeventsrc.v1
echo "*****************************************************" >>
ldeventsrc.v1
cat 100g_dg_anlyz.dat >> ldeventsrc.v1
```

100G_DG_SCUTO.DAT

```
######################################################################
##
# preprocessing-like directives

%b-preproc

*sql
\svrmgr30 <<!
\set echo on;
\set termout on;
\connect internal;
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\{}
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\exit;
\!

*load
\sqlldr80 {}

*mknod
\mknod {}

*dbgen
\dbgen {}

*sh
\{}

%e-preproc
%b-scuto
*bgon=64
######################################################################
#######
# Schema Creation Phase - User and Tables ONLY (no datafiles)
*time=Begin creating user and tables (no datafiles)
# creating tpcd user
*sql
{
drop user tpcd cascade;
grant resource,unlimited tablespace,connect
  to tpcd identified by tpcd;
}
*wait
*sql
{
connect tpcd/tpcd;
}
*wait
*sql
{
connect tpcd/tpcd;
drop table lineitem;
create table lineitem (
    l_shipdate           date ,
    l_orderkey           number NOT NULL,
    l_discount           number ,
    l_extendedprice      number ,
    l_suppkey            number NOT NULL,
    l_quantity           number ,
    l_returnflag         char(1) ,
    l_partkey            number NOT NULL,
    l_linestatus         char(1) ,
    l_tax                number NOT NULL,
    l_commitdate         date ,
    l_receiptdate        date ,
    l_shipmode           varchar(10) ,
    l_linenumber         number NOT NULL,
    l_shipinstruct       varchar(25) ,
    l_comment            varchar(44)
)
pctfree 1
pctused 99
initrans 10
tablespace ts_l1
storage (initial 64k next 460m freelists 16 freelist groups 5
pctincrease 0)
parallel (degree 60 instances 1)
partition by range (l_shipdate)
(
partition item1 values less than (to_date('1992-03-24','YYYY-MM-DD'))
tablespace ts_l1
,
partition item2 values less than (to_date('1992-05-01','YYYY-MM-DD'))
tablespace ts_l2
,
partition item3 values less than (to_date('1992-06-01','YYYY-MM-DD'))
tablespace ts_l3
,
partition item4 values less than (to_date('1992-07-01','YYYY-MM-DD'))
tablespace ts_l4
,
partition item5 values less than (to_date('1992-08-01','YYYY-MM-DD'))
tablespace ts_l5
,
partition item6 values less than (to_date('1992-09-01','YYYY-MM-DD'))
tablespace ts_l6
,
partition item7 values less than (to_date('1992-10-01','YYYY-MM-DD'))
tablespace ts_l7
,
partition item8 values less than (to_date('1992-11-01','YYYY-MM-DD'))
tablespace ts_l8
,
partition item9 values less than (to_date('1992-12-01','YYYY-MM-DD'))
tablespace ts_l9
,
partition item10 values less than (to_date('1993-01-01','YYYY-MM-DD'))
tablespace ts_l10
,
partition item11 values less than (to_date('1993-02-01','YYYY-MM-DD'))
tablespace ts_l11
,
partition item12 values less than (to_date('1993-03-01','YYYY-MM-DD'))
tablespace ts_l12
,
partition item13 values less than (to_date('1993-04-01','YYYY-MM-DD'))
tablespace ts_l13
,
partition item14 values less than (to_date('1993-05-01','YYYY-MM-DD'))
tablespace ts_l14
,
partition item15 values less than (to_date('1993-06-01','YYYY-MM-DD'))
tablespace ts_l15
,
partition item16 values less than (to_date('1993-07-01','YYYY-MM-DD'))
tablespace ts_l16
,
partition item17 values less than (to_date('1993-08-01','YYYY-MM-DD'))
tablespace ts_l17
,
partition item18 values less than (to_date('1993-09-01','YYYY-MM-DD'))
tablespace ts_l18
,
partition item19 values less than (to_date('1993-10-01','YYYY-MM-DD'))
tablespace ts_l19
,
partition item20 values less than (to_date('1993-11-01','YYYY-MM-DD'))
tablespace ts_l20
,
partition item21 values less than (to_date('1993-12-01','YYYY-MM-DD'))
tablespace ts_l21
,
partition item22 values less than (to_date('1994-01-01','YYYY-MM-DD'))
tablespace ts_l22
,
partition item23 values less than (to_date('1994-02-01','YYYY-MM-DD'))
tablespace ts_l23
,
partition item24 values less than (to_date('1994-03-01','YYYY-MM-DD'))
tablespace ts_l24
,
partition item25 values less than (to_date('1994-04-01','YYYY-MM-DD'))
tablespace ts_l25
,
partition item26 values less than (to_date('1994-05-01','YYYY-MM-DD'))
tablespace ts_l26
,
partition item27 values less than (to_date('1994-06-01','YYYY-MM-DD'))
tablespace ts_l27
,
partition item28 values less than (to_date('1994-07-01','YYYY-MM-DD'))
tablespace ts_l28
,
partition item29 values less than (to_date('1994-08-01','YYYY-MM-DD'))
tablespace ts_l29
,
partition item30 values less than (to_date('1994-09-01','YYYY-MM-DD'))
tablespace ts_l30
,
partition item31 values less than (to_date('1994-10-01','YYYY-MM-DD'))
tablespace ts_l31
,
partition item32 values less than (to_date('1994-11-01','YYYY-MM-DD'))
tablespace ts_l32
,
partition item33 values less than (to_date('1994-12-01','YYYY-MM-DD'))
tablespace ts_l33
,
partition item34 values less than (to_date('1995-01-01','YYYY-MM-DD'))
tablespace ts_l34
,
partition item35 values less than (to_date('1995-02-01','YYYY-MM-DD'))
tablespace ts_l35
,
partition item36 values less than (to_date('1995-03-01','YYYY-MM-DD'))
tablespace ts_l36
,
partition item37 values less than (to_date('1995-04-01','YYYY-MM-DD'))
tablespace ts_l37
,
partition item38 values less than (to_date('1995-05-01','YYYY-MM-DD'))
tablespace ts_l38
,
partition item39 values less than (to_date('1995-06-01','YYYY-MM-DD'))
tablespace ts_l39
,
partition item40 values less than (to_date('1995-07-01','YYYY-MM-DD'))
tablespace ts_l40
,
partition item41 values less than (to_date('1995-08-01','YYYY-MM-DD'))
tablespace ts_l41
,
partition item42 values less than (to_date('1995-09-01','YYYY-MM-DD'))
tablespace ts_l42
,
partition item43 values less than (to_date('1995-10-01','YYYY-MM-DD'))
tablespace ts_l43
,
partition item44 values less than (to_date('1995-11-01','YYYY-MM-DD'))
tablespace ts_l44
```

```
,
partition item45 values less than (to_date('1995-12-01','YYYY-MM-DD'))
tablespace ts_l45
,
partition item46 values less than (to_date('1996-01-01','YYYY-MM-DD'))
tablespace ts_l46
,
partition item47 values less than (to_date('1996-02-01','YYYY-MM-DD'))
tablespace ts_l47
,
partition item48 values less than (to_date('1996-03-01','YYYY-MM-DD'))
tablespace ts_l48
,
partition item49 values less than (to_date('1996-04-01','YYYY-MM-DD'))
tablespace ts_l49
,
partition item50 values less than (to_date('1996-05-01','YYYY-MM-DD'))
tablespace ts_l50
,
partition item51 values less than (to_date('1996-06-01','YYYY-MM-DD'))
tablespace ts_l51
,
partition item52 values less than (to_date('1996-07-01','YYYY-MM-DD'))
tablespace ts_l52
,
partition item53 values less than (to_date('1996-08-01','YYYY-MM-DD'))
tablespace ts_l53
,
partition item54 values less than (to_date('1996-09-01','YYYY-MM-DD'))
tablespace ts_l54
,
partition item55 values less than (to_date('1996-10-01','YYYY-MM-DD'))
tablespace ts_l55
,
partition item56 values less than (to_date('1996-11-01','YYYY-MM-DD'))
tablespace ts_l56
,
partition item57 values less than (to_date('1996-12-01','YYYY-MM-DD'))
tablespace ts_l57
,
partition item58 values less than (to_date('1997-01-01','YYYY-MM-DD'))
tablespace ts_l58
,
partition item59 values less than (to_date('1997-02-01','YYYY-MM-DD'))
tablespace ts_l59
,
partition item60 values less than (to_date('1997-03-01','YYYY-MM-DD'))
tablespace ts_l60
,
partition item61 values less than (to_date('1997-04-01','YYYY-MM-DD'))
tablespace ts_l61
,
partition item62 values less than (to_date('1997-05-01','YYYY-MM-DD'))
tablespace ts_l62
,
partition item63 values less than (to_date('1997-06-01','YYYY-MM-DD'))
tablespace ts_l63
,
partition item64 values less than (to_date('1997-07-01','YYYY-MM-DD'))
tablespace ts_l64
,
partition item65 values less than (to_date('1997-08-01','YYYY-MM-DD'))
tablespace ts_l65
,
partition item66 values less than (to_date('1997-09-01','YYYY-MM-DD'))
tablespace ts_l66
,
partition item67 values less than (to_date('1997-10-01','YYYY-MM-DD'))
tablespace ts_l67
,
partition item68 values less than (to_date('1997-11-01','YYYY-MM-DD'))
tablespace ts_l68
,
partition item69 values less than (to_date('1997-12-01','YYYY-MM-DD'))
tablespace ts_l69
,
partition item70 values less than (to_date('1998-01-01','YYYY-MM-DD'))
tablespace ts_l70
,
partition item71 values less than (to_date('1998-02-01','YYYY-MM-DD'))
tablespace ts_l71
,
partition item72 values less than (to_date('1998-03-01','YYYY-MM-DD'))
tablespace ts_l72
,
partition item73 values less than (to_date('1998-04-01','YYYY-MM-DD'))
tablespace ts_l73
,
partition item74 values less than (to_date('1998-05-01','YYYY-MM-DD'))
tablespace ts_l74
,
partition item75 values less than (to_date('1998-06-01','YYYY-MM-DD'))
tablespace ts_l75
,
partition item76 values less than (to_date('1998-07-01','YYYY-MM-DD'))
tablespace ts_l76
,
partition item77 values less than (to_date('1998-08-01','YYYY-MM-DD'))
tablespace ts_l77
,
partition item78 values less than (to_date('1998-09-01','YYYY-MM-DD'))
tablespace ts_l78
,
partition item79 values less than (to_date('1998-10-01','YYYY-MM-DD'))
tablespace ts_l79
,
partition item80 values less than (to_date('1999-01-01','YYYY-MM-DD'))
tablespace ts_l80
)
;
drop table orders;
create table orders (
    o_orderdate           date ,
    o_orderkey            number NOT NULL,
    o_custkey             number NOT NULL,
    o_orderpriority       varchar(15) ,
    o_shippriority        number ,
    o_clerk               varchar(15) ,
    o_orderstatus         char(1) ,
    o_totalprice          number ,
    o_comment             varchar(79)
)
pctfree 1
pctused 99
initrans 10
tablespace ts_o1
storage (initial 64k next 112m freelists 16 freelist groups 5
pctincrease 0)
parallel (degree 60 instances 1)
partition by range (o_orderdate)
(
partition ord1 values less than (to_date('1992-02-01','YYYY-MM-DD'))
tablespace ts_o1
,
partition ord2 values less than (to_date('1992-03-01','YYYY-MM-DD'))
tablespace ts_o2
,
partition ord3 values less than (to_date('1992-04-01','YYYY-MM-DD'))
tablespace ts_o3
,
partition ord4 values less than (to_date('1992-05-01','YYYY-MM-DD'))
tablespace ts_o4
,
partition ord5 values less than (to_date('1992-06-01','YYYY-MM-DD'))
tablespace ts_o5
,
partition ord6 values less than (to_date('1992-07-01','YYYY-MM-DD'))
tablespace ts_o6
,
partition ord7 values less than (to_date('1992-08-01','YYYY-MM-DD'))
tablespace ts_o7
,
partition ord8 values less than (to_date('1992-09-01','YYYY-MM-DD'))
tablespace ts_o8
,
partition ord9 values less than (to_date('1992-10-01','YYYY-MM-DD'))
tablespace ts_o9
,
partition ord10 values less than (to_date('1992-11-01','YYYY-MM-DD'))
tablespace ts_o10
,
partition ord11 values less than (to_date('1992-12-01','YYYY-MM-DD'))
tablespace ts_o11
,
partition ord12 values less than (to_date('1993-01-01','YYYY-MM-DD'))
tablespace ts_o12
,
partition ord13 values less than (to_date('1993-02-01','YYYY-MM-DD'))
tablespace ts_o13
,
partition ord14 values less than (to_date('1993-03-01','YYYY-MM-DD'))
tablespace ts_o14
,
partition ord15 values less than (to_date('1993-04-01','YYYY-MM-DD'))
tablespace ts_o15
,
partition ord16 values less than (to_date('1993-05-01','YYYY-MM-DD'))
tablespace ts_o16
,
partition ord17 values less than (to_date('1993-06-01','YYYY-MM-DD'))
tablespace ts_o17
,
partition ord18 values less than (to_date('1993-07-01','YYYY-MM-DD'))
tablespace ts_o18
,
partition ord19 values less than (to_date('1993-08-01','YYYY-MM-DD'))
tablespace ts_o19
,
partition ord20 values less than (to_date('1993-09-01','YYYY-MM-DD'))
tablespace ts_o20
,
partition ord21 values less than (to_date('1993-10-01','YYYY-MM-DD'))
tablespace ts_o21
,
partition ord22 values less than (to_date('1993-11-01','YYYY-MM-DD'))
tablespace ts_o22
,
partition ord23 values less than (to_date('1993-12-01','YYYY-MM-DD'))
tablespace ts_o23
,
partition ord24 values less than (to_date('1994-01-01','YYYY-MM-DD'))
tablespace ts_o24
,
partition ord25 values less than (to_date('1994-02-01','YYYY-MM-DD'))
tablespace ts_o25
,
partition ord26 values less than (to_date('1994-03-01','YYYY-MM-DD'))
tablespace ts_o26
,
partition ord27 values less than (to_date('1994-04-01','YYYY-MM-DD'))
tablespace ts_o27
,
partition ord28 values less than (to_date('1994-05-01','YYYY-MM-DD'))
tablespace ts_o28
,
partition ord29 values less than (to_date('1994-06-01','YYYY-MM-DD'))
tablespace ts_o29
,
partition ord30 values less than (to_date('1994-07-01','YYYY-MM-DD'))
tablespace ts_o30
,
partition ord31 values less than (to_date('1994-08-01','YYYY-MM-DD'))
tablespace ts_o31
,
partition ord32 values less than (to_date('1994-09-01','YYYY-MM-DD'))
tablespace ts_o32
,
partition ord33 values less than (to_date('1994-10-01','YYYY-MM-DD'))
tablespace ts_o33
,
partition ord34 values less than (to_date('1994-11-01','YYYY-MM-DD'))
tablespace ts_o34
,
partition ord35 values less than (to_date('1994-12-01','YYYY-MM-DD'))
tablespace ts_o35
,
partition ord36 values less than (to_date('1995-01-01','YYYY-MM-DD'))
tablespace ts_o36
,
partition ord37 values less than (to_date('1995-02-01','YYYY-MM-DD'))
tablespace ts_o37
,
partition ord38 values less than (to_date('1995-03-01','YYYY-MM-DD'))
tablespace ts_o38
,
partition ord39 values less than (to_date('1995-04-01','YYYY-MM-DD'))
tablespace ts_o39
,
partition ord40 values less than (to_date('1995-05-01','YYYY-MM-DD'))
tablespace ts_o40
,
partition ord41 values less than (to_date('1995-06-01','YYYY-MM-DD'))
tablespace ts_o41
,
partition ord42 values less than (to_date('1995-07-01','YYYY-MM-DD'))
tablespace ts_o42
,
partition ord43 values less than (to_date('1995-08-01','YYYY-MM-DD'))
tablespace ts_o43
,
partition ord44 values less than (to_date('1995-09-01','YYYY-MM-DD'))
tablespace ts_o44
,
partition ord45 values less than (to_date('1995-10-01','YYYY-MM-DD'))
tablespace ts_o45
,
partition ord46 values less than (to_date('1995-11-01','YYYY-MM-DD'))
tablespace ts_o46
,
partition ord47 values less than (to_date('1995-12-01','YYYY-MM-DD'))
tablespace ts_o47
,
partition ord48 values less than (to_date('1996-01-01','YYYY-MM-DD'))
tablespace ts_o48
,
partition ord49 values less than (to_date('1996-02-01','YYYY-MM-DD'))
tablespace ts_o49
,
partition ord50 values less than (to_date('1996-03-01','YYYY-MM-DD'))
tablespace ts_o50
,
partition ord51 values less than (to_date('1996-04-01','YYYY-MM-DD'))
tablespace ts_o51
,
partition ord52 values less than (to_date('1996-05-01','YYYY-MM-DD'))
tablespace ts_o52
,
partition ord53 values less than (to_date('1996-06-01','YYYY-MM-DD'))
tablespace ts_o53
,
partition ord54 values less than (to_date('1996-07-01','YYYY-MM-DD'))
tablespace ts_o54
,
partition ord55 values less than (to_date('1996-08-01','YYYY-MM-DD'))
tablespace ts_o55
,
partition ord56 values less than (to_date('1996-09-01','YYYY-MM-DD'))
tablespace ts_o56
,
partition ord57 values less than (to_date('1996-10-01','YYYY-MM-DD'))
tablespace ts_o57
,
partition ord58 values less than (to_date('1996-11-01','YYYY-MM-DD'))
tablespace ts_o58
,
partition ord59 values less than (to_date('1996-12-01','YYYY-MM-DD'))
tablespace ts_o59
,
partition ord60 values less than (to_date('1997-01-01','YYYY-MM-DD'))
tablespace ts_o60
,
partition ord61 values less than (to_date('1997-02-01','YYYY-MM-DD'))
tablespace ts_o61
,
```

```
partition ord62 values less than (to_date('1997-03-01','YYYY-MM-DD'))
tablespace ts_o62
,
partition ord63 values less than (to_date('1997-04-01','YYYY-MM-DD'))
tablespace ts_o63
,
partition ord64 values less than (to_date('1997-05-01','YYYY-MM-DD'))
tablespace ts_o64
,
partition ord65 values less than (to_date('1997-06-01','YYYY-MM-DD'))
tablespace ts_o65
,
partition ord66 values less than (to_date('1997-07-01','YYYY-MM-DD'))
tablespace ts_o66
,
partition ord67 values less than (to_date('1997-08-01','YYYY-MM-DD'))
tablespace ts_o67
,
partition ord68 values less than (to_date('1997-09-01','YYYY-MM-DD'))
tablespace ts_o68
,
partition ord69 values less than (to_date('1997-10-01','YYYY-MM-DD'))
tablespace ts_o69
,
partition ord70 values less than (to_date('1997-11-01','YYYY-MM-DD'))
tablespace ts_o70
,
partition ord71 values less than (to_date('1997-12-01','YYYY-MM-DD'))
tablespace ts_o71
,
partition ord72 values less than (to_date('1998-01-01','YYYY-MM-DD'))
tablespace ts_o72
,
partition ord73 values less than (to_date('1998-02-01','YYYY-MM-DD'))
tablespace ts_o73
,
partition ord74 values less than (to_date('1998-03-01','YYYY-MM-DD'))
tablespace ts_o74
,
partition ord75 values less than (to_date('1998-04-01','YYYY-MM-DD'))
tablespace ts_o75
,
partition ord76 values less than (to_date('1998-05-01','YYYY-MM-DD'))
tablespace ts_o76
,
partition ord77 values less than (to_date('1998-06-01','YYYY-MM-DD'))
tablespace ts_o77
,
partition ord78 values less than (to_date('1998-07-01','YYYY-MM-DD'))
tablespace ts_o78
,
partition ord79 values less than (to_date('1998-08-01','YYYY-MM-DD'))
tablespace ts_o79
,
partition ord80 values less than (to_date('1998-09-01','YYYY-MM-DD'))
tablespace ts_o80
)
;
drop table partsupp;
create table partsupp (
    ps_partkey          number NOT NULL,
    ps_suppkey          number NOT NULL,
    ps_supplycost       number NOT NULL,
    ps_availqty         number ,
    ps_comment          varchar(199)
)
pctfree 0
pctused 99
tablespace ts_ps
storage (initial 64k next 83m pctincrease 0)
;
drop table parts;
create table parts (
    p_partkey           number NOT NULL,
    p_type              varchar(25) ,
    p_size              number ,
    p_brand             varchar(10) ,
    p_name              varchar(55) ,
    p_container         varchar(10) ,
    p_mfgr              varchar(25) ,
    p_retailprice       number ,
    p_comment           varchar(23)
)
pctfree 0
pctused 99
tablespace ts_p1
storage (initial 64k next 2m pctincrease 0)
parallel (degree 60 instances 1)
partition by range (p_size)
(
partition part1 values less than (2)
tablespace ts_p1
,
partition part2 values less than (3)
tablespace ts_p2
,
partition part3 values less than (4)
tablespace ts_p3
,
partition part4 values less than (5)
tablespace ts_p4
,
partition part5 values less than (6)
tablespace ts_p5
,
partition part6 values less than (7)
tablespace ts_p6
,
partition part7 values less than (8)
tablespace ts_p7
,
partition part8 values less than (9)
tablespace ts_p8
,
partition part9 values less than (10)
tablespace ts_p9
,
partition part10 values less than (11)
tablespace ts_p10
,
partition part11 values less than (12)
tablespace ts_p11
,
partition part12 values less than (13)
tablespace ts_p12
,
partition part13 values less than (14)
tablespace ts_p13
,
partition part14 values less than (15)
tablespace ts_p14
,
partition part15 values less than (16)
tablespace ts_p15
,
partition part16 values less than (17)
tablespace ts_p16
,
partition part17 values less than (18)
tablespace ts_p17
,
partition part18 values less than (19)
tablespace ts_p18
,
partition part19 values less than (20)
tablespace ts_p19
,
partition part20 values less than (21)
tablespace ts_p20
,
partition part21 values less than (22)
tablespace ts_p21
,
partition part22 values less than (23)
tablespace ts_p22
,
partition part23 values less than (24)
tablespace ts_p23
,
partition part24 values less than (25)
tablespace ts_p24
,
partition part25 values less than (26)
tablespace ts_p25
,
partition part26 values less than (27)
tablespace ts_p26
,
partition part27 values less than (28)
tablespace ts_p27
,
partition part28 values less than (29)
tablespace ts_p28
,
partition part29 values less than (30)
tablespace ts_p29
,
partition part30 values less than (31)
tablespace ts_p30
,
partition part31 values less than (32)
tablespace ts_p31
,
partition part32 values less than (33)
tablespace ts_p32
,
partition part33 values less than (34)
tablespace ts_p33
,
partition part34 values less than (35)
tablespace ts_p34
,
partition part35 values less than (36)
tablespace ts_p35
,
partition part36 values less than (37)
tablespace ts_p36
,
partition part37 values less than (38)
tablespace ts_p37
,
partition part38 values less than (39)
tablespace ts_p38
,
partition part39 values less than (40)
tablespace ts_p39
,
partition part40 values less than (41)
tablespace ts_p40
,
partition part41 values less than (42)
tablespace ts_p41
,
partition part42 values less than (43)
tablespace ts_p42
,
partition part43 values less than (44)
tablespace ts_p43
,
partition part44 values less than (45)
tablespace ts_p44
,
partition part45 values less than (46)
tablespace ts_p45
,
partition part46 values less than (47)
tablespace ts_p46
,
partition part47 values less than (48)
tablespace ts_p47
,
partition part48 values less than (49)
tablespace ts_p48
,
partition part49 values less than (50)
tablespace ts_p49
,
partition part50 values less than (51)
tablespace ts_p50
)
;
drop table customer;
create table customer (
    c_custkey           number NOT NULL,
    c_mktsegment        varchar(10) ,
    c_nationkey         number ,
    c_name              varchar(25) ,
    c_address           varchar(40) ,
    c_phone             varchar(15) ,
    c_acctbal           number ,
    c_comment           varchar(117)
)
pctfree 0
pctused 99
tablespace ts_c1
storage (initial 64k next 19m pctincrease 0)
parallel (degree 60 instances 1)
partition by range (c_mktsegment)
(
partition cust1 values less than ('AUTOMOBILF')
tablespace ts_c1
,
partition cust2 values less than ('BUILDINH')
tablespace ts_c2
,
partition cust3 values less than ('FURNITURF')
tablespace ts_c3
,
partition cust4 values less than ('HOUSEHOLE')
tablespace ts_c4
,
partition cust5 values less than ('MACHINERZ')
tablespace ts_c5
)
;
drop table supplier;
create table supplier (
    s_suppkey           number NOT NULL,
    s_nationkey         number ,
    s_comment           varchar(101) ,
    s_name              varchar(25) ,
    s_address           varchar(40) ,
    s_phone             varchar(15) ,
    s_acctbal           number
)
pctfree 0
pctused 99
tablespace ts_s
storage (initial 64k next 10m pctincrease 0)
parallel (degree 60 instances 1)
;
drop table nation;
create table nation (
    n_nationkey         number NOT NULL,
    n_name              varchar(25) ,
    n_regionkey         number ,
    n_comment           varchar(152)
)
```

Appendix B

```
tablespace system
;
drop table region;
create table region (
    r_regionkey          number ,
    r_name               varchar(25) ,
    r_comment            varchar(152)
)
tablespace system
;
}
*wait
# altering tpcd's temp tablespace
*sql
{
alter user tpcd temporary tablespace ts_temp;
}
*wait
*time=Done creating user and tables (no datafiles)
*wait
*bgoff
%e-scuto
```

100G_DG_DAPOP.DAT

```
######################################################################
# preprocessing-like directives

%b-preproc

*sql
\svrmgr30 <<!
\set echo on;
\set termout on;
\connect internal;
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\{}
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\exit;
\!

*load
\sqlldr80 {}

*mknod
\mknod {}

*dbgen
\dbgen {}

*sh
\{}

%e-preproc
%b-dapop
*bgen=40
######################################################################
# Database Population Phase
*time=Begin data population
*time=Begin lineitem load
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem1.ctl
log=d:\tpcd\log\hundgig\lineitem1.log data=f:\tpcd\data\hundgig\lineitem1.1 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L1_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem2.ctl
log=d:\tpcd\log\hundgig\lineitem2.log data=f:\tpcd\data\hundgig\lineitem1.2 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L2_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem3.ctl
log=d:\tpcd\log\hundgig\lineitem3.log data=f:\tpcd\data\hundgig\lineitem1.3 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L3_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem4.ctl
log=d:\tpcd\log\hundgig\lineitem4.log data=f:\tpcd\data\hundgig\lineitem1.4 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L4_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem5.ctl
log=d:\tpcd\log\hundgig\lineitem5.log data=f:\tpcd\data\hundgig\lineitem1.5 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L5_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem6.ctl
log=d:\tpcd\log\hundgig\lineitem6.log data=f:\tpcd\data\hundgig\lineitem1.6 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L6_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem7.ctl
log=d:\tpcd\log\hundgig\lineitem7.log data=f:\tpcd\data\hundgig\lineitem1.7 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L7_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem8.ctl
log=d:\tpcd\log\hundgig\lineitem8.log data=f:\tpcd\data\hundgig\lineitem1.8 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L8_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem9.ctl
log=d:\tpcd\log\hundgig\lineitem9.log data=f:\tpcd\data\hundgig\lineitem1.9 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L9_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem10.ctl
log=d:\tpcd\log\hundgig\lineitem10.log data=f:\tpcd\data\hundgig\lineitem1.10
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L10_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem11.ctl
log=d:\tpcd\log\hundgig\lineitem11.log data=f:\tpcd\data\hundgig\lineitem1.11
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L11_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem12.ctl
log=d:\tpcd\log\hundgig\lineitem12.log data=f:\tpcd\data\hundgig\lineitem1.12
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L12_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem13.ctl
log=d:\tpcd\log\hundgig\lineitem13.log data=f:\tpcd\data\hundgig\lineitem1.13
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L13_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem14.ctl
log=d:\tpcd\log\hundgig\lineitem14.log data=f:\tpcd\data\hundgig\lineitem1.14
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L14_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem15.ctl
log=d:\tpcd\log\hundgig\lineitem15.log data=f:\tpcd\data\hundgig\lineitem1.15
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L15_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem16.ctl
log=d:\tpcd\log\hundgig\lineitem16.log data=f:\tpcd\data\hundgig\lineitem1.16
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L16_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem17.ctl
log=d:\tpcd\log\hundgig\lineitem17.log data=f:\tpcd\data\hundgig\lineitem1.17
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L17_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem18.ctl
log=d:\tpcd\log\hundgig\lineitem18.log data=f:\tpcd\data\hundgig\lineitem1.18
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L18_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem19.ctl
log=d:\tpcd\log\hundgig\lineitem19.log data=f:\tpcd\data\hundgig\lineitem1.19
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L19_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem20.ctl
log=d:\tpcd\log\hundgig\lineitem20.log data=f:\tpcd\data\hundgig\lineitem1.20
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L20_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem21.ctl
log=d:\tpcd\log\hundgig\lineitem21.log data=f:\tpcd\data\hundgig\lineitem1.21
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L21_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem22.ctl
log=d:\tpcd\log\hundgig\lineitem22.log data=f:\tpcd\data\hundgig\lineitem1.22
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L22_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem23.ctl
log=d:\tpcd\log\hundgig\lineitem23.log data=f:\tpcd\data\hundgig\lineitem1.23
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L23_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem24.ctl
log=d:\tpcd\log\hundgig\lineitem24.log data=f:\tpcd\data\hundgig\lineitem1.24
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L24_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem25.ctl
log=d:\tpcd\log\hundgig\lineitem25.log data=f:\tpcd\data\hundgig\lineitem1.25
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L25_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem26.ctl
log=d:\tpcd\log\hundgig\lineitem26.log data=f:\tpcd\data\hundgig\lineitem1.26
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L26_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem27.ctl
log=d:\tpcd\log\hundgig\lineitem27.log data=f:\tpcd\data\hundgig\lineitem1.27
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L27_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem28.ctl
log=d:\tpcd\log\hundgig\lineitem28.log data=f:\tpcd\data\hundgig\lineitem1.28
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L28_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem29.ctl
log=d:\tpcd\log\hundgig\lineitem29.log data=f:\tpcd\data\hundgig\lineitem1.29
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L29_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem30.ctl
log=d:\tpcd\log\hundgig\lineitem30.log data=f:\tpcd\data\hundgig\lineitem1.30
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L30_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem31.ctl
log=d:\tpcd\log\hundgig\lineitem31.log data=f:\tpcd\data\hundgig\lineitem1.31
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L31_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem32.ctl
log=d:\tpcd\log\hundgig\lineitem32.log data=f:\tpcd\data\hundgig\lineitem1.32
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L32_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem33.ctl
log=d:\tpcd\log\hundgig\lineitem33.log data=f:\tpcd\data\hundgig\lineitem1.33
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L33_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem34.ctl
log=d:\tpcd\log\hundgig\lineitem34.log data=f:\tpcd\data\hundgig\lineitem1.34
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L34_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem35.ctl
log=d:\tpcd\log\hundgig\lineitem35.log data=f:\tpcd\data\hundgig\lineitem1.35
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L35_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem36.ctl
log=d:\tpcd\log\hundgig\lineitem36.log data=f:\tpcd\data\hundgig\lineitem1.36
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L36_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem37.ctl
log=d:\tpcd\log\hundgig\lineitem37.log data=f:\tpcd\data\hundgig\lineitem1.37
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L37_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem38.ctl
log=d:\tpcd\log\hundgig\lineitem38.log data=f:\tpcd\data\hundgig\lineitem1.38
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L38_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem39.ctl
log=d:\tpcd\log\hundgig\lineitem39.log data=f:\tpcd\data\hundgig\lineitem1.39
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L39_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem40.ctl
log=d:\tpcd\log\hundgig\lineitem40.log data=f:\tpcd\data\hundgig\lineitem1.40
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L40_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem41.ctl
log=d:\tpcd\log\hundgig\lineitem41.log data=f:\tpcd\data\hundgig\lineitem1.41
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L41_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem42.ctl
log=d:\tpcd\log\hundgig\lineitem42.log data=f:\tpcd\data\hundgig\lineitem1.42
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L42_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem43.ctl
log=d:\tpcd\log\hundgig\lineitem43.log data=f:\tpcd\data\hundgig\lineitem1.43
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L43_1.DBF
}
*load
```

```
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem44.ctl
log=d:\tpcd\log\hundgig\lineitem44.log data=f:\tpcd\data\hundgig\lineitem1.44
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L44_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem45.ctl
log=d:\tpcd\log\hundgig\lineitem45.log data=f:\tpcd\data\hundgig\lineitem1.45
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L45_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem46.ctl
log=d:\tpcd\log\hundgig\lineitem46.log data=f:\tpcd\data\hundgig\lineitem1.46
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L46_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem47.ctl
log=d:\tpcd\log\hundgig\lineitem47.log data=f:\tpcd\data\hundgig\lineitem1.47
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L47_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem48.ctl
log=d:\tpcd\log\hundgig\lineitem48.log data=f:\tpcd\data\hundgig\lineitem1.48
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L48_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem49.ctl
log=d:\tpcd\log\hundgig\lineitem49.log data=f:\tpcd\data\hundgig\lineitem1.49
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L49_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem50.ctl
log=d:\tpcd\log\hundgig\lineitem50.log data=f:\tpcd\data\hundgig\lineitem1.50
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L50_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem51.ctl
log=d:\tpcd\log\hundgig\lineitem51.log data=f:\tpcd\data\hundgig\lineitem1.51
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L51_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem52.ctl
log=d:\tpcd\log\hundgig\lineitem52.log data=f:\tpcd\data\hundgig\lineitem1.52
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L52_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem53.ctl
log=d:\tpcd\log\hundgig\lineitem53.log data=f:\tpcd\data\hundgig\lineitem1.53
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L53_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem54.ctl
log=d:\tpcd\log\hundgig\lineitem54.log data=f:\tpcd\data\hundgig\lineitem1.54
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L54_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem55.ctl
log=d:\tpcd\log\hundgig\lineitem55.log data=f:\tpcd\data\hundgig\lineitem1.55
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L55_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem56.ctl
log=d:\tpcd\log\hundgig\lineitem56.log data=f:\tpcd\data\hundgig\lineitem1.56
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L56_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem57.ctl
log=d:\tpcd\log\hundgig\lineitem57.log data=f:\tpcd\data\hundgig\lineitem1.57
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L57_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem58.ctl
log=d:\tpcd\log\hundgig\lineitem58.log data=f:\tpcd\data\hundgig\lineitem1.58
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L58_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem59.ctl
log=d:\tpcd\log\hundgig\lineitem59.log data=f:\tpcd\data\hundgig\lineitem1.59
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L59_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem60.ctl
log=d:\tpcd\log\hundgig\lineitem60.log data=f:\tpcd\data\hundgig\lineitem1.60
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L60_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem61.ctl
log=d:\tpcd\log\hundgig\lineitem61.log data=f:\tpcd\data\hundgig\lineitem1.61
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L61_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem62.ctl
log=d:\tpcd\log\hundgig\lineitem62.log data=f:\tpcd\data\hundgig\lineitem1.62
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L62_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem63.ctl
log=d:\tpcd\log\hundgig\lineitem63.log data=f:\tpcd\data\hundgig\lineitem1.63
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L63_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem64.ctl
log=d:\tpcd\log\hundgig\lineitem64.log data=f:\tpcd\data\hundgig\lineitem1.64
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L64_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem65.ctl
log=d:\tpcd\log\hundgig\lineitem65.log data=f:\tpcd\data\hundgig\lineitem1.65
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L65_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem66.ctl
log=d:\tpcd\log\hundgig\lineitem66.log data=f:\tpcd\data\hundgig\lineitem1.66
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L66_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem67.ctl
log=d:\tpcd\log\hundgig\lineitem67.log data=f:\tpcd\data\hundgig\lineitem1.67
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L67_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem68.ctl
log=d:\tpcd\log\hundgig\lineitem68.log data=f:\tpcd\data\hundgig\lineitem1.68
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L68_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem69.ctl
log=d:\tpcd\log\hundgig\lineitem69.log data=f:\tpcd\data\hundgig\lineitem1.69
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L69_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem70.ctl
log=d:\tpcd\log\hundgig\lineitem70.log data=f:\tpcd\data\hundgig\lineitem1.70
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L70_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem71.ctl
log=d:\tpcd\log\hundgig\lineitem71.log data=f:\tpcd\data\hundgig\lineitem1.71
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L71_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem72.ctl
log=d:\tpcd\log\hundgig\lineitem72.log data=f:\tpcd\data\hundgig\lineitem1.72
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L72_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem73.ctl
log=d:\tpcd\log\hundgig\lineitem73.log data=f:\tpcd\data\hundgig\lineitem1.73
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L73_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem74.ctl
log=d:\tpcd\log\hundgig\lineitem74.log data=f:\tpcd\data\hundgig\lineitem1.74
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L74_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem75.ctl
log=d:\tpcd\log\hundgig\lineitem75.log data=f:\tpcd\data\hundgig\lineitem1.75
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L75_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem76.ctl
log=d:\tpcd\log\hundgig\lineitem76.log data=f:\tpcd\data\hundgig\lineitem1.76
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L76_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem77.ctl
log=d:\tpcd\log\hundgig\lineitem77.log data=f:\tpcd\data\hundgig\lineitem1.77
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L77_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem78.ctl
log=d:\tpcd\log\hundgig\lineitem78.log data=f:\tpcd\data\hundgig\lineitem1.78
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L78_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem79.ctl
log=d:\tpcd\log\hundgig\lineitem79.log data=f:\tpcd\data\hundgig\lineitem1.79
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L79_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem80.ctl
log=d:\tpcd\log\hundgig\lineitem80.log data=f:\tpcd\data\hundgig\lineitem1.80
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L80_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem81.ctl
log=d:\tpcd\log\hundgig\lineitem81.log data=f:\tpcd\data\hundgig\lineitem2.1 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L1_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem82.ctl
log=d:\tpcd\log\hundgig\lineitem82.log data=f:\tpcd\data\hundgig\lineitem2.2 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L2_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem83.ctl
log=d:\tpcd\log\hundgig\lineitem83.log data=f:\tpcd\data\hundgig\lineitem2.3 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L3_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem84.ctl
log=d:\tpcd\log\hundgig\lineitem84.log data=f:\tpcd\data\hundgig\lineitem2.4 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L4_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem85.ctl
log=d:\tpcd\log\hundgig\lineitem85.log data=f:\tpcd\data\hundgig\lineitem2.5 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L5_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem86.ctl
log=d:\tpcd\log\hundgig\lineitem86.log data=f:\tpcd\data\hundgig\lineitem2.6 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L6_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem87.ctl
log=d:\tpcd\log\hundgig\lineitem87.log data=f:\tpcd\data\hundgig\lineitem2.7 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L7_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem88.ctl
log=d:\tpcd\log\hundgig\lineitem88.log data=f:\tpcd\data\hundgig\lineitem2.8 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L8_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem89.ctl
log=d:\tpcd\log\hundgig\lineitem89.log data=f:\tpcd\data\hundgig\lineitem2.9 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L9_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem90.ctl
log=d:\tpcd\log\hundgig\lineitem90.log data=f:\tpcd\data\hundgig\lineitem2.10
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L10_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem91.ctl
log=d:\tpcd\log\hundgig\lineitem91.log data=f:\tpcd\data\hundgig\lineitem2.11
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L11_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem92.ctl
log=d:\tpcd\log\hundgig\lineitem92.log data=f:\tpcd\data\hundgig\lineitem2.12
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L12_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem93.ctl
log=d:\tpcd\log\hundgig\lineitem93.log data=f:\tpcd\data\hundgig\lineitem2.13
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L13_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem94.ctl
log=d:\tpcd\log\hundgig\lineitem94.log data=f:\tpcd\data\hundgig\lineitem2.14
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L14_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem95.ctl
log=d:\tpcd\log\hundgig\lineitem95.log data=f:\tpcd\data\hundgig\lineitem2.15
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L15_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem96.ctl
log=d:\tpcd\log\hundgig\lineitem96.log data=f:\tpcd\data\hundgig\lineitem2.16
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L16_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem97.ctl
log=d:\tpcd\log\hundgig\lineitem97.log data=f:\tpcd\data\hundgig\lineitem2.17
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L17_2.DBF
}
*load
{
```

Appendix B

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem98.ctl
log=d:\tpcd\log\hundgig\lineitem98.log data=f:\tpcd\data\hundgig\lineitem2.18
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L18_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem99.ctl
log=d:\tpcd\log\hundgig\lineitem99.log data=f:\tpcd\data\hundgig\lineitem2.19
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L19_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem100.ctl
log=d:\tpcd\log\hundgig\lineitem100.log data=f:\tpcd\data\hundgig\lineitem2.20
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L20_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem101.ctl
log=d:\tpcd\log\hundgig\lineitem101.log data=f:\tpcd\data\hundgig\lineitem2.21
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L21_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem102.ctl
log=d:\tpcd\log\hundgig\lineitem102.log data=f:\tpcd\data\hundgig\lineitem2.22
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L22_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem103.ctl
log=d:\tpcd\log\hundgig\lineitem103.log data=f:\tpcd\data\hundgig\lineitem2.23
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L23_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem104.ctl
log=d:\tpcd\log\hundgig\lineitem104.log data=f:\tpcd\data\hundgig\lineitem2.24
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L24_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem105.ctl
log=d:\tpcd\log\hundgig\lineitem105.log data=f:\tpcd\data\hundgig\lineitem2.25
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L25_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem106.ctl
log=d:\tpcd\log\hundgig\lineitem106.log data=f:\tpcd\data\hundgig\lineitem2.26
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L26_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem107.ctl
log=d:\tpcd\log\hundgig\lineitem107.log data=f:\tpcd\data\hundgig\lineitem2.27
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L27_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem108.ctl
log=d:\tpcd\log\hundgig\lineitem108.log data=f:\tpcd\data\hundgig\lineitem2.28
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L28_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem109.ctl
log=d:\tpcd\log\hundgig\lineitem109.log data=f:\tpcd\data\hundgig\lineitem2.29
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L29_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem110.ctl
log=d:\tpcd\log\hundgig\lineitem110.log data=f:\tpcd\data\hundgig\lineitem2.30
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L30_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem111.ctl
log=d:\tpcd\log\hundgig\lineitem111.log data=f:\tpcd\data\hundgig\lineitem2.31
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L31_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem112.ctl
log=d:\tpcd\log\hundgig\lineitem112.log data=f:\tpcd\data\hundgig\lineitem2.32
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L32_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem113.ctl
log=d:\tpcd\log\hundgig\lineitem113.log data=f:\tpcd\data\hundgig\lineitem2.33
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L33_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem114.ctl
log=d:\tpcd\log\hundgig\lineitem114.log data=f:\tpcd\data\hundgig\lineitem2.34
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L34_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem115.ctl
log=d:\tpcd\log\hundgig\lineitem115.log data=f:\tpcd\data\hundgig\lineitem2.35
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L35_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem116.ctl
log=d:\tpcd\log\hundgig\lineitem116.log data=f:\tpcd\data\hundgig\lineitem2.36
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L36_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem117.ctl
log=d:\tpcd\log\hundgig\lineitem117.log data=f:\tpcd\data\hundgig\lineitem2.37
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L37_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem118.ctl
log=d:\tpcd\log\hundgig\lineitem118.log data=f:\tpcd\data\hundgig\lineitem2.38
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L38_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem119.ctl
log=d:\tpcd\log\hundgig\lineitem119.log data=f:\tpcd\data\hundgig\lineitem2.39
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L39_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem120.ctl
log=d:\tpcd\log\hundgig\lineitem120.log data=f:\tpcd\data\hundgig\lineitem2.40
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L40_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem121.ctl
log=d:\tpcd\log\hundgig\lineitem121.log data=f:\tpcd\data\hundgig\lineitem2.41
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L41_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem122.ctl
log=d:\tpcd\log\hundgig\lineitem122.log data=f:\tpcd\data\hundgig\lineitem2.42
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L42_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem123.ctl
log=d:\tpcd\log\hundgig\lineitem123.log data=f:\tpcd\data\hundgig\lineitem2.43
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L43_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem124.ctl
log=d:\tpcd\log\hundgig\lineitem124.log data=f:\tpcd\data\hundgig\lineitem2.44
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L44_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem125.ctl
log=d:\tpcd\log\hundgig\lineitem125.log data=f:\tpcd\data\hundgig\lineitem2.45
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L45_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem126.ctl
log=d:\tpcd\log\hundgig\lineitem126.log data=f:\tpcd\data\hundgig\lineitem2.46
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L46_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem127.ctl
log=d:\tpcd\log\hundgig\lineitem127.log data=f:\tpcd\data\hundgig\lineitem2.47
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L47_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem128.ctl
log=d:\tpcd\log\hundgig\lineitem128.log data=f:\tpcd\data\hundgig\lineitem2.48
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L48_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem129.ctl
log=d:\tpcd\log\hundgig\lineitem129.log data=f:\tpcd\data\hundgig\lineitem2.49
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L49_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem130.ctl
log=d:\tpcd\log\hundgig\lineitem130.log data=f:\tpcd\data\hundgig\lineitem2.50
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L50_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem131.ctl
log=d:\tpcd\log\hundgig\lineitem131.log data=f:\tpcd\data\hundgig\lineitem2.51
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L51_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem132.ctl
log=d:\tpcd\log\hundgig\lineitem132.log data=f:\tpcd\data\hundgig\lineitem2.52
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L52_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem133.ctl
log=d:\tpcd\log\hundgig\lineitem133.log data=f:\tpcd\data\hundgig\lineitem2.53
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L53_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem134.ctl
log=d:\tpcd\log\hundgig\lineitem134.log data=f:\tpcd\data\hundgig\lineitem2.54
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L54_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem135.ctl
log=d:\tpcd\log\hundgig\lineitem135.log data=f:\tpcd\data\hundgig\lineitem2.55
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L55_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem136.ctl
log=d:\tpcd\log\hundgig\lineitem136.log data=f:\tpcd\data\hundgig\lineitem2.56
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L56_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem137.ctl
log=d:\tpcd\log\hundgig\lineitem137.log data=f:\tpcd\data\hundgig\lineitem2.57
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L57_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem138.ctl
log=d:\tpcd\log\hundgig\lineitem138.log data=f:\tpcd\data\hundgig\lineitem2.58
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L58_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem139.ctl
log=d:\tpcd\log\hundgig\lineitem139.log data=f:\tpcd\data\hundgig\lineitem2.59
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L59_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem140.ctl
log=d:\tpcd\log\hundgig\lineitem140.log data=f:\tpcd\data\hundgig\lineitem2.60
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L60_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem141.ctl
log=d:\tpcd\log\hundgig\lineitem141.log data=f:\tpcd\data\hundgig\lineitem2.61
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L61_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem142.ctl
log=d:\tpcd\log\hundgig\lineitem142.log data=f:\tpcd\data\hundgig\lineitem2.62
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L62_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem143.ctl
log=d:\tpcd\log\hundgig\lineitem143.log data=f:\tpcd\data\hundgig\lineitem2.63
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L63_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem144.ctl
log=d:\tpcd\log\hundgig\lineitem144.log data=f:\tpcd\data\hundgig\lineitem2.64
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L64_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem145.ctl
log=d:\tpcd\log\hundgig\lineitem145.log data=f:\tpcd\data\hundgig\lineitem2.65
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L65_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem146.ctl
log=d:\tpcd\log\hundgig\lineitem146.log data=f:\tpcd\data\hundgig\lineitem2.66
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L66_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem147.ctl
log=d:\tpcd\log\hundgig\lineitem147.log data=f:\tpcd\data\hundgig\lineitem2.67
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L67_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem148.ctl
log=d:\tpcd\log\hundgig\lineitem148.log data=f:\tpcd\data\hundgig\lineitem2.68
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L68_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem149.ctl
log=d:\tpcd\log\hundgig\lineitem149.log data=f:\tpcd\data\hundgig\lineitem2.69
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L69_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem150.ctl
log=d:\tpcd\log\hundgig\lineitem150.log data=f:\tpcd\data\hundgig\lineitem2.70
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L70_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem151.ctl
log=d:\tpcd\log\hundgig\lineitem151.log data=f:\tpcd\data\hundgig\lineitem2.71
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L71_2.DBF
}
*load
{
```

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem152.ctl
log=d:\tpcd\log\hundgig\lineitem152.log data=f:\tpcd\data\hundgig\lineitem2.72
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L72_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem153.ctl
log=d:\tpcd\log\hundgig\lineitem153.log data=f:\tpcd\data\hundgig\lineitem2.73
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_L73_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem154.ctl
log=d:\tpcd\log\hundgig\lineitem154.log data=f:\tpcd\data\hundgig\lineitem2.74
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_L74_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem155.ctl
log=d:\tpcd\log\hundgig\lineitem155.log data=f:\tpcd\data\hundgig\lineitem2.75
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_L75_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem156.ctl
log=d:\tpcd\log\hundgig\lineitem156.log data=f:\tpcd\data\hundgig\lineitem2.76
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_L76_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem157.ctl
log=d:\tpcd\log\hundgig\lineitem157.log data=f:\tpcd\data\hundgig\lineitem2.77
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_L77_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem158.ctl
log=d:\tpcd\log\hundgig\lineitem158.log data=f:\tpcd\data\hundgig\lineitem2.78
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_L78_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem159.ctl
log=d:\tpcd\log\hundgig\lineitem159.log data=f:\tpcd\data\hundgig\lineitem2.79
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_L79_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\lineitem160.ctl
log=d:\tpcd\log\hundgig\lineitem160.log data=f:\tpcd\data\hundgig\lineitem2.80
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_L80_2.DBF
}
*wait
*time=End lineitem load
*time=Begin orders load
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order1.ctl log=d:\tpcd\log\hundgig\orders1.log
data=f:\tpcd\data\hundgig\orders1.1 direct=true parallel=true
FILE=G:\TPCD\DBS\HUNDGIG\TS_O1_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order2.ctl log=d:\tpcd\log\hundgig\orders2.log
data=f:\tpcd\data\hundgig\orders1.2 direct=true parallel=true
FILE=H:\TPCD\DBS\HUNDGIG\TS_O2_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order3.ctl log=d:\tpcd\log\hundgig\orders3.log
data=f:\tpcd\data\hundgig\orders1.3 direct=true parallel=true
FILE=I:\TPCD\DBS\HUNDGIG\TS_O3_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order4.ctl log=d:\tpcd\log\hundgig\orders4.log
data=f:\tpcd\data\hundgig\orders1.4 direct=true parallel=true
FILE=J:\TPCD\DBS\HUNDGIG\TS_O4_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order5.ctl log=d:\tpcd\log\hundgig\orders5.log
data=f:\tpcd\data\hundgig\orders1.5 direct=true parallel=true
FILE=K:\TPCD\DBS\HUNDGIG\TS_O5_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order6.ctl log=d:\tpcd\log\hundgig\orders6.log
data=f:\tpcd\data\hundgig\orders1.6 direct=true parallel=true
FILE=L:\TPCD\DBS\HUNDGIG\TS_O6_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order7.ctl log=d:\tpcd\log\hundgig\orders7.log
data=f:\tpcd\data\hundgig\orders1.7 direct=true parallel=true
FILE=M:\TPCD\DBS\HUNDGIG\TS_O7_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order8.ctl log=d:\tpcd\log\hundgig\orders8.log
data=f:\tpcd\data\hundgig\orders1.8 direct=true parallel=true
FILE=N:\TPCD\DBS\HUNDGIG\TS_O8_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order9.ctl log=d:\tpcd\log\hundgig\orders9.log
data=f:\tpcd\data\hundgig\orders1.9 direct=true parallel=true
FILE=G:\TPCD\DBS\HUNDGIG\TS_O9_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order10.ctl
log=d:\tpcd\log\hundgig\orders10.log data=f:\tpcd\data\hundgig\orders1.10 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_O10_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order11.ctl
log=d:\tpcd\log\hundgig\orders11.log data=f:\tpcd\data\hundgig\orders1.11 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_O11_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order12.ctl
log=d:\tpcd\log\hundgig\orders12.log data=f:\tpcd\data\hundgig\orders1.12 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_O12_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order13.ctl
log=d:\tpcd\log\hundgig\orders13.log data=f:\tpcd\data\hundgig\orders1.13 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_O13_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order14.ctl
log=d:\tpcd\log\hundgig\orders14.log data=f:\tpcd\data\hundgig\orders1.14 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_O14_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order15.ctl
log=d:\tpcd\log\hundgig\orders15.log data=f:\tpcd\data\hundgig\orders1.15 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_O15_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order16.ctl
log=d:\tpcd\log\hundgig\orders16.log data=f:\tpcd\data\hundgig\orders1.16 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_O16_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order17.ctl
log=d:\tpcd\log\hundgig\orders17.log data=f:\tpcd\data\hundgig\orders1.17 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_O17_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order18.ctl
log=d:\tpcd\log\hundgig\orders18.log data=f:\tpcd\data\hundgig\orders1.18 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_O18_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order19.ctl
log=d:\tpcd\log\hundgig\orders19.log data=f:\tpcd\data\hundgig\orders1.19 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_O19_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order20.ctl
log=d:\tpcd\log\hundgig\orders20.log data=f:\tpcd\data\hundgig\orders1.20 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_O20_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order21.ctl
log=d:\tpcd\log\hundgig\orders21.log data=f:\tpcd\data\hundgig\orders1.21 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_O21_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order22.ctl
log=d:\tpcd\log\hundgig\orders22.log data=f:\tpcd\data\hundgig\orders1.22 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_O22_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order23.ctl
log=d:\tpcd\log\hundgig\orders23.log data=f:\tpcd\data\hundgig\orders1.23 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_O23_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order24.ctl
log=d:\tpcd\log\hundgig\orders24.log data=f:\tpcd\data\hundgig\orders1.24 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_O24_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order25.ctl
log=d:\tpcd\log\hundgig\orders25.log data=f:\tpcd\data\hundgig\orders1.25 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_O25_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order26.ctl
log=d:\tpcd\log\hundgig\orders26.log data=f:\tpcd\data\hundgig\orders1.26 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_O26_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order27.ctl
log=d:\tpcd\log\hundgig\orders27.log data=f:\tpcd\data\hundgig\orders1.27 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_O27_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order28.ctl
log=d:\tpcd\log\hundgig\orders28.log data=f:\tpcd\data\hundgig\orders1.28 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_O28_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order29.ctl
log=d:\tpcd\log\hundgig\orders29.log data=f:\tpcd\data\hundgig\orders1.29 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_O29_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order30.ctl
log=d:\tpcd\log\hundgig\orders30.log data=f:\tpcd\data\hundgig\orders1.30 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_O30_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order31.ctl
log=d:\tpcd\log\hundgig\orders31.log data=f:\tpcd\data\hundgig\orders1.31 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_O31_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order32.ctl
log=d:\tpcd\log\hundgig\orders32.log data=f:\tpcd\data\hundgig\orders1.32 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_O32_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order33.ctl
log=d:\tpcd\log\hundgig\orders33.log data=f:\tpcd\data\hundgig\orders1.33 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_O33_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order34.ctl
log=d:\tpcd\log\hundgig\orders34.log data=f:\tpcd\data\hundgig\orders1.34 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_O34_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order35.ctl
log=d:\tpcd\log\hundgig\orders35.log data=f:\tpcd\data\hundgig\orders1.35 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_O35_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order36.ctl
log=d:\tpcd\log\hundgig\orders36.log data=f:\tpcd\data\hundgig\orders1.36 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_O36_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order37.ctl
log=d:\tpcd\log\hundgig\orders37.log data=f:\tpcd\data\hundgig\orders1.37 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_O37_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order38.ctl
log=d:\tpcd\log\hundgig\orders38.log data=f:\tpcd\data\hundgig\orders1.38 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_O38_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order39.ctl
log=d:\tpcd\log\hundgig\orders39.log data=f:\tpcd\data\hundgig\orders1.39 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_O39_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order40.ctl
log=d:\tpcd\log\hundgig\orders40.log data=f:\tpcd\data\hundgig\orders1.40 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_O40_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order41.ctl
log=d:\tpcd\log\hundgig\orders41.log data=f:\tpcd\data\hundgig\orders1.41 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_O41_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order42.ctl
log=d:\tpcd\log\hundgig\orders42.log data=f:\tpcd\data\hundgig\orders1.42 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_O42_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order43.ctl
log=d:\tpcd\log\hundgig\orders43.log data=f:\tpcd\data\hundgig\orders1.43 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_O43_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order44.ctl
log=d:\tpcd\log\hundgig\orders44.log data=f:\tpcd\data\hundgig\orders1.44 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_O44_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order45.ctl
log=d:\tpcd\log\hundgig\orders45.log data=f:\tpcd\data\hundgig\orders1.45 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_O45_1.DBF
}
*load
```

Appendix B

```
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order46.ctl
log=d:\tpcd\log\hundgig\orders46.log data=f:\tpcd\data\hundgig\orders1.46 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_046_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order47.ctl
log=d:\tpcd\log\hundgig\orders47.log data=f:\tpcd\data\hundgig\orders1.47 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_047_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order48.ctl
log=d:\tpcd\log\hundgig\orders48.log data=f:\tpcd\data\hundgig\orders1.48 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_048_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order49.ctl
log=d:\tpcd\log\hundgig\orders49.log data=f:\tpcd\data\hundgig\orders1.49 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_049_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order50.ctl
log=d:\tpcd\log\hundgig\orders50.log data=f:\tpcd\data\hundgig\orders1.50 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_050_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order51.ctl
log=d:\tpcd\log\hundgig\orders51.log data=f:\tpcd\data\hundgig\orders1.51 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_051_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order52.ctl
log=d:\tpcd\log\hundgig\orders52.log data=f:\tpcd\data\hundgig\orders1.52 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_052_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order53.ctl
log=d:\tpcd\log\hundgig\orders53.log data=f:\tpcd\data\hundgig\orders1.53 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_053_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order54.ctl
log=d:\tpcd\log\hundgig\orders54.log data=f:\tpcd\data\hundgig\orders1.54 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_054_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order55.ctl
log=d:\tpcd\log\hundgig\orders55.log data=f:\tpcd\data\hundgig\orders1.55 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_055_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order56.ctl
log=d:\tpcd\log\hundgig\orders56.log data=f:\tpcd\data\hundgig\orders1.56 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_056_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order57.ctl
log=d:\tpcd\log\hundgig\orders57.log data=f:\tpcd\data\hundgig\orders1.57 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_057_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order58.ctl
log=d:\tpcd\log\hundgig\orders58.log data=f:\tpcd\data\hundgig\orders1.58 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_058_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order59.ctl
log=d:\tpcd\log\hundgig\orders59.log data=f:\tpcd\data\hundgig\orders1.59 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_059_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order60.ctl
log=d:\tpcd\log\hundgig\orders60.log data=f:\tpcd\data\hundgig\orders1.60 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_060_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order61.ctl
log=d:\tpcd\log\hundgig\orders61.log data=f:\tpcd\data\hundgig\orders1.61 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_061_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order62.ctl
log=d:\tpcd\log\hundgig\orders62.log data=f:\tpcd\data\hundgig\orders1.62 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_062_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order63.ctl
log=d:\tpcd\log\hundgig\orders63.log data=f:\tpcd\data\hundgig\orders1.63 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_063_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order64.ctl
log=d:\tpcd\log\hundgig\orders64.log data=f:\tpcd\data\hundgig\orders1.64 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_064_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order65.ctl
log=d:\tpcd\log\hundgig\orders65.log data=f:\tpcd\data\hundgig\orders1.65 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_065_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order66.ctl
log=d:\tpcd\log\hundgig\orders66.log data=f:\tpcd\data\hundgig\orders1.66 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_066_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order67.ctl
log=d:\tpcd\log\hundgig\orders67.log data=f:\tpcd\data\hundgig\orders1.67 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_067_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order68.ctl
log=d:\tpcd\log\hundgig\orders68.log data=f:\tpcd\data\hundgig\orders1.68 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_068_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order69.ctl
log=d:\tpcd\log\hundgig\orders69.log data=f:\tpcd\data\hundgig\orders1.69 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_069_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order70.ctl
log=d:\tpcd\log\hundgig\orders70.log data=f:\tpcd\data\hundgig\orders1.70 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_070_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order71.ctl
log=d:\tpcd\log\hundgig\orders71.log data=f:\tpcd\data\hundgig\orders1.71 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_071_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order72.ctl
log=d:\tpcd\log\hundgig\orders72.log data=f:\tpcd\data\hundgig\orders1.72 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_072_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order73.ctl
log=d:\tpcd\log\hundgig\orders73.log data=f:\tpcd\data\hundgig\orders1.73 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_073_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order74.ctl
log=d:\tpcd\log\hundgig\orders74.log data=f:\tpcd\data\hundgig\orders1.74 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_074_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order75.ctl
log=d:\tpcd\log\hundgig\orders75.log data=f:\tpcd\data\hundgig\orders1.75 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_075_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order76.ctl
log=d:\tpcd\log\hundgig\orders76.log data=f:\tpcd\data\hundgig\orders1.76 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_076_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order77.ctl
log=d:\tpcd\log\hundgig\orders77.log data=f:\tpcd\data\hundgig\orders1.77 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_077_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order78.ctl
log=d:\tpcd\log\hundgig\orders78.log data=f:\tpcd\data\hundgig\orders1.78 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_078_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order79.ctl
log=d:\tpcd\log\hundgig\orders79.log data=f:\tpcd\data\hundgig\orders1.79 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_079_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order80.ctl
log=d:\tpcd\log\hundgig\orders80.log data=f:\tpcd\data\hundgig\orders1.80 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_080_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order81.ctl
log=d:\tpcd\log\hundgig\orders81.log data=f:\tpcd\data\hundgig\orders2.1 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_01_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order82.ctl
log=d:\tpcd\log\hundgig\orders82.log data=f:\tpcd\data\hundgig\orders2.2 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_02_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order83.ctl
log=d:\tpcd\log\hundgig\orders83.log data=f:\tpcd\data\hundgig\orders2.3 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_03_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order84.ctl
log=d:\tpcd\log\hundgig\orders84.log data=f:\tpcd\data\hundgig\orders2.4 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_04_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order85.ctl
log=d:\tpcd\log\hundgig\orders85.log data=f:\tpcd\data\hundgig\orders2.5 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_05_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order86.ctl
log=d:\tpcd\log\hundgig\orders86.log data=f:\tpcd\data\hundgig\orders2.6 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_06_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order87.ctl
log=d:\tpcd\log\hundgig\orders87.log data=f:\tpcd\data\hundgig\orders2.7 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_07_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order88.ctl
log=d:\tpcd\log\hundgig\orders88.log data=f:\tpcd\data\hundgig\orders2.8 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_08_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order89.ctl
log=d:\tpcd\log\hundgig\orders89.log data=f:\tpcd\data\hundgig\orders2.9 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_09_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order90.ctl
log=d:\tpcd\log\hundgig\orders90.log data=f:\tpcd\data\hundgig\orders2.10 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_010_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order91.ctl
log=d:\tpcd\log\hundgig\orders91.log data=f:\tpcd\data\hundgig\orders2.11 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_011_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order92.ctl
log=d:\tpcd\log\hundgig\orders92.log data=f:\tpcd\data\hundgig\orders2.12 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_012_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order93.ctl
log=d:\tpcd\log\hundgig\orders93.log data=f:\tpcd\data\hundgig\orders2.13 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_013_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order94.ctl
log=d:\tpcd\log\hundgig\orders94.log data=f:\tpcd\data\hundgig\orders2.14 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_014_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order95.ctl
log=d:\tpcd\log\hundgig\orders95.log data=f:\tpcd\data\hundgig\orders2.15 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_015_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order96.ctl
log=d:\tpcd\log\hundgig\orders96.log data=f:\tpcd\data\hundgig\orders2.16 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_016_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order97.ctl
log=d:\tpcd\log\hundgig\orders97.log data=f:\tpcd\data\hundgig\orders2.17 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_017_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order98.ctl
log=d:\tpcd\log\hundgig\orders98.log data=f:\tpcd\data\hundgig\orders2.18 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_018_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order99.ctl
log=d:\tpcd\log\hundgig\orders99.log data=f:\tpcd\data\hundgig\orders2.19 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_019_2.DBF
}
*load
{
```

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order100.ctl
log=d:\tpcd\log\hundgig\orders100.log data=f:\tpcd\data\hundgig\orders2.20 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_020_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order101.ctl
log=d:\tpcd\log\hundgig\orders101.log data=f:\tpcd\data\hundgig\orders2.21 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_021_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order102.ctl
log=d:\tpcd\log\hundgig\orders102.log data=f:\tpcd\data\hundgig\orders2.22 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_022_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order103.ctl
log=d:\tpcd\log\hundgig\orders103.log data=f:\tpcd\data\hundgig\orders2.23 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_023_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order104.ctl
log=d:\tpcd\log\hundgig\orders104.log data=f:\tpcd\data\hundgig\orders2.24 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_024_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order105.ctl
log=d:\tpcd\log\hundgig\orders105.log data=f:\tpcd\data\hundgig\orders2.25 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_025_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order106.ctl
log=d:\tpcd\log\hundgig\orders106.log data=f:\tpcd\data\hundgig\orders2.26 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_026_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order107.ctl
log=d:\tpcd\log\hundgig\orders107.log data=f:\tpcd\data\hundgig\orders2.27 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_027_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order108.ctl
log=d:\tpcd\log\hundgig\orders108.log data=f:\tpcd\data\hundgig\orders2.28 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_028_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order109.ctl
log=d:\tpcd\log\hundgig\orders109.log data=f:\tpcd\data\hundgig\orders2.29 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_029_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order110.ctl
log=d:\tpcd\log\hundgig\orders110.log data=f:\tpcd\data\hundgig\orders2.30 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_030_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order111.ctl
log=d:\tpcd\log\hundgig\orders111.log data=f:\tpcd\data\hundgig\orders2.31 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_031_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order112.ctl
log=d:\tpcd\log\hundgig\orders112.log data=f:\tpcd\data\hundgig\orders2.32 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_032_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order113.ctl
log=d:\tpcd\log\hundgig\orders113.log data=f:\tpcd\data\hundgig\orders2.33 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_033_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order114.ctl
log=d:\tpcd\log\hundgig\orders114.log data=f:\tpcd\data\hundgig\orders2.34 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_034_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order115.ctl
log=d:\tpcd\log\hundgig\orders115.log data=f:\tpcd\data\hundgig\orders2.35 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_035_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order116.ctl
log=d:\tpcd\log\hundgig\orders116.log data=f:\tpcd\data\hundgig\orders2.36 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_036_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order117.ctl
log=d:\tpcd\log\hundgig\orders117.log data=f:\tpcd\data\hundgig\orders2.37 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_037_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order118.ctl
log=d:\tpcd\log\hundgig\orders118.log data=f:\tpcd\data\hundgig\orders2.38 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_038_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order119.ctl
log=d:\tpcd\log\hundgig\orders119.log data=f:\tpcd\data\hundgig\orders2.39 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_039_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order120.ctl
log=d:\tpcd\log\hundgig\orders120.log data=f:\tpcd\data\hundgig\orders2.40 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_040_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order121.ctl
log=d:\tpcd\log\hundgig\orders121.log data=f:\tpcd\data\hundgig\orders2.41 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_041_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order122.ctl
log=d:\tpcd\log\hundgig\orders122.log data=f:\tpcd\data\hundgig\orders2.42 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_042_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order123.ctl
log=d:\tpcd\log\hundgig\orders123.log data=f:\tpcd\data\hundgig\orders2.43 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_043_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order124.ctl
log=d:\tpcd\log\hundgig\orders124.log data=f:\tpcd\data\hundgig\orders2.44 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_044_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order125.ctl
log=d:\tpcd\log\hundgig\orders125.log data=f:\tpcd\data\hundgig\orders2.45 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_045_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order126.ctl
log=d:\tpcd\log\hundgig\orders126.log data=f:\tpcd\data\hundgig\orders2.46 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_046_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order127.ctl
log=d:\tpcd\log\hundgig\orders127.log data=f:\tpcd\data\hundgig\orders2.47 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_047_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order128.ctl
log=d:\tpcd\log\hundgig\orders128.log data=f:\tpcd\data\hundgig\orders2.48 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_048_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order129.ctl
log=d:\tpcd\log\hundgig\orders129.log data=f:\tpcd\data\hundgig\orders2.49 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_049_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order130.ctl
log=d:\tpcd\log\hundgig\orders130.log data=f:\tpcd\data\hundgig\orders2.50 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_050_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order131.ctl
log=d:\tpcd\log\hundgig\orders131.log data=f:\tpcd\data\hundgig\orders2.51 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_051_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order132.ctl
log=d:\tpcd\log\hundgig\orders132.log data=f:\tpcd\data\hundgig\orders2.52 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_052_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order133.ctl
log=d:\tpcd\log\hundgig\orders133.log data=f:\tpcd\data\hundgig\orders2.53 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_053_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order134.ctl
log=d:\tpcd\log\hundgig\orders134.log data=f:\tpcd\data\hundgig\orders2.54 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_054_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order135.ctl
log=d:\tpcd\log\hundgig\orders135.log data=f:\tpcd\data\hundgig\orders2.55 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_055_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order136.ctl
log=d:\tpcd\log\hundgig\orders136.log data=f:\tpcd\data\hundgig\orders2.56 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_056_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order137.ctl
log=d:\tpcd\log\hundgig\orders137.log data=f:\tpcd\data\hundgig\orders2.57 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_057_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order138.ctl
log=d:\tpcd\log\hundgig\orders138.log data=f:\tpcd\data\hundgig\orders2.58 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_058_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order139.ctl
log=d:\tpcd\log\hundgig\orders139.log data=f:\tpcd\data\hundgig\orders2.59 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_059_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order140.ctl
log=d:\tpcd\log\hundgig\orders140.log data=f:\tpcd\data\hundgig\orders2.60 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_060_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order141.ctl
log=d:\tpcd\log\hundgig\orders141.log data=f:\tpcd\data\hundgig\orders2.61 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_061_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order142.ctl
log=d:\tpcd\log\hundgig\orders142.log data=f:\tpcd\data\hundgig\orders2.62 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_062_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order143.ctl
log=d:\tpcd\log\hundgig\orders143.log data=f:\tpcd\data\hundgig\orders2.63 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_063_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order144.ctl
log=d:\tpcd\log\hundgig\orders144.log data=f:\tpcd\data\hundgig\orders2.64 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_064_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order145.ctl
log=d:\tpcd\log\hundgig\orders145.log data=f:\tpcd\data\hundgig\orders2.65 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_065_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order146.ctl
log=d:\tpcd\log\hundgig\orders146.log data=f:\tpcd\data\hundgig\orders2.66 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_066_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order147.ctl
log=d:\tpcd\log\hundgig\orders147.log data=f:\tpcd\data\hundgig\orders2.67 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_067_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order148.ctl
log=d:\tpcd\log\hundgig\orders148.log data=f:\tpcd\data\hundgig\orders2.68 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_068_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order149.ctl
log=d:\tpcd\log\hundgig\orders149.log data=f:\tpcd\data\hundgig\orders2.69 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_069_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order150.ctl
log=d:\tpcd\log\hundgig\orders150.log data=f:\tpcd\data\hundgig\orders2.70 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_070_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order151.ctl
log=d:\tpcd\log\hundgig\orders151.log data=f:\tpcd\data\hundgig\orders2.71 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_071_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order152.ctl
log=d:\tpcd\log\hundgig\orders152.log data=f:\tpcd\data\hundgig\orders2.72 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_072_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order153.ctl
log=d:\tpcd\log\hundgig\orders153.log data=f:\tpcd\data\hundgig\orders2.73 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_073_2.DBF
}
*load
{
```

Appendix B

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order154.ctl
log=d:\tpcd\log\hundgig\orders154.log data=f:\tpcd\data\hundgig\orders2.74 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_O74_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order155.ctl
log=d:\tpcd\log\hundgig\orders155.log data=f:\tpcd\data\hundgig\orders2.75 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_O75_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order156.ctl
log=d:\tpcd\log\hundgig\orders156.log data=f:\tpcd\data\hundgig\orders2.76 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_O76_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order157.ctl
log=d:\tpcd\log\hundgig\orders157.log data=f:\tpcd\data\hundgig\orders2.77 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_O77_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order158.ctl
log=d:\tpcd\log\hundgig\orders158.log data=f:\tpcd\data\hundgig\orders2.78 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_O78_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order159.ctl
log=d:\tpcd\log\hundgig\orders159.log data=f:\tpcd\data\hundgig\orders2.79 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_O79_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\order160.ctl
log=d:\tpcd\log\hundgig\orders160.log data=f:\tpcd\data\hundgig\orders2.80 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_O80_2.DBF
}
*wait
*time=End orders load
*time=Begin partsupp load
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl log=d:\tpcd\log\hundgig\psup1.log
data=f:\tpcd\data\hundgig\partsupp.tbl.1 direct=true parallel=true
FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl log=d:\tpcd\log\hundgig\psup2.log
data=f:\tpcd\data\hundgig\partsupp.tbl.2 direct=true parallel=true
FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl log=d:\tpcd\log\hundgig\psup3.log
data=f:\tpcd\data\hundgig\partsupp.tbl.3 direct=true parallel=true
FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl log=d:\tpcd\log\hundgig\psup4.log
data=f:\tpcd\data\hundgig\partsupp.tbl.4 direct=true parallel=true
FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl log=d:\tpcd\log\hundgig\psup5.log
data=f:\tpcd\data\hundgig\partsupp.tbl.5 direct=true parallel=true
FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl log=d:\tpcd\log\hundgig\psup6.log
data=f:\tpcd\data\hundgig\partsupp.tbl.6 direct=true parallel=true
FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl log=d:\tpcd\log\hundgig\psup7.log
data=f:\tpcd\data\hundgig\partsupp.tbl.7 direct=true parallel=true
FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl log=d:\tpcd\log\hundgig\psup8.log
data=f:\tpcd\data\hundgig\partsupp.tbl.8 direct=true parallel=true
FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl log=d:\tpcd\log\hundgig\psup9.log
data=f:\tpcd\data\hundgig\partsupp.tbl.9 direct=true parallel=true
FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup10.log data=f:\tpcd\data\hundgig\partsupp.tbl.10 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup11.log data=f:\tpcd\data\hundgig\partsupp.tbl.11 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup12.log data=f:\tpcd\data\hundgig\partsupp.tbl.12 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup13.log data=f:\tpcd\data\hundgig\partsupp.tbl.13 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup14.log data=f:\tpcd\data\hundgig\partsupp.tbl.14 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup15.log data=f:\tpcd\data\hundgig\partsupp.tbl.15 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup16.log data=f:\tpcd\data\hundgig\partsupp.tbl.16 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup17.log data=f:\tpcd\data\hundgig\partsupp.tbl.17 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_17.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup18.log data=f:\tpcd\data\hundgig\partsupp.tbl.18 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_18.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup19.log data=f:\tpcd\data\hundgig\partsupp.tbl.19 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_19.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup20.log data=f:\tpcd\data\hundgig\partsupp.tbl.20 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_20.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup21.log data=f:\tpcd\data\hundgig\partsupp.tbl.21 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_21.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup22.log data=f:\tpcd\data\hundgig\partsupp.tbl.22 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_22.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup23.log data=f:\tpcd\data\hundgig\partsupp.tbl.23 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_23.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup24.log data=f:\tpcd\data\hundgig\partsupp.tbl.24 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_24.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup25.log data=f:\tpcd\data\hundgig\partsupp.tbl.25 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_25.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup26.log data=f:\tpcd\data\hundgig\partsupp.tbl.26 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_26.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup27.log data=f:\tpcd\data\hundgig\partsupp.tbl.27 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_27.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup28.log data=f:\tpcd\data\hundgig\partsupp.tbl.28 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_28.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup29.log data=f:\tpcd\data\hundgig\partsupp.tbl.29 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_29.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup30.log data=f:\tpcd\data\hundgig\partsupp.tbl.30 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_30.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup31.log data=f:\tpcd\data\hundgig\partsupp.tbl.31 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_31.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup32.log data=f:\tpcd\data\hundgig\partsupp.tbl.32 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_32.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup33.log data=f:\tpcd\data\hundgig\partsupp.tbl.33 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_33.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup34.log data=f:\tpcd\data\hundgig\partsupp.tbl.34 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_34.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup35.log data=f:\tpcd\data\hundgig\partsupp.tbl.35 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_35.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup36.log data=f:\tpcd\data\hundgig\partsupp.tbl.36 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_36.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup37.log data=f:\tpcd\data\hundgig\partsupp.tbl.37 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_37.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup38.log data=f:\tpcd\data\hundgig\partsupp.tbl.38 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_38.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup39.log data=f:\tpcd\data\hundgig\partsupp.tbl.39 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_39.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup40.log data=f:\tpcd\data\hundgig\partsupp.tbl.40 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_40.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup41.log data=f:\tpcd\data\hundgig\partsupp.tbl.41 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_41.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup42.log data=f:\tpcd\data\hundgig\partsupp.tbl.42 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_42.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup43.log data=f:\tpcd\data\hundgig\partsupp.tbl.43 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_43.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup44.log data=f:\tpcd\data\hundgig\partsupp.tbl.44 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_44.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup45.log data=f:\tpcd\data\hundgig\partsupp.tbl.45 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_45.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup46.log data=f:\tpcd\data\hundgig\partsupp.tbl.46 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_46.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup47.log data=f:\tpcd\data\hundgig\partsupp.tbl.47 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_47.DBF
}
*load
```

```
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup48.log data=f:\tpcd\data\hundgig\partsupp.tbl.48 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_48.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup49.log data=f:\tpcd\data\hundgig\partsupp.tbl.49 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_49.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup50.log data=f:\tpcd\data\hundgig\partsupp.tbl.50 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_50.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup51.log data=f:\tpcd\data\hundgig\partsupp.tbl.51 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_51.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup52.log data=f:\tpcd\data\hundgig\partsupp.tbl.52 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_52.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup53.log data=f:\tpcd\data\hundgig\partsupp.tbl.53 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_53.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup54.log data=f:\tpcd\data\hundgig\partsupp.tbl.54 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_54.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup55.log data=f:\tpcd\data\hundgig\partsupp.tbl.55 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_55.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup56.log data=f:\tpcd\data\hundgig\partsupp.tbl.56 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_56.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup57.log data=f:\tpcd\data\hundgig\partsupp.tbl.57 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_57.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup58.log data=f:\tpcd\data\hundgig\partsupp.tbl.58 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_58.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup59.log data=f:\tpcd\data\hundgig\partsupp.tbl.59 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_59.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup60.log data=f:\tpcd\data\hundgig\partsupp.tbl.60 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_60.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup61.log data=f:\tpcd\data\hundgig\partsupp.tbl.61 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_61.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup62.log data=f:\tpcd\data\hundgig\partsupp.tbl.62 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_62.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup63.log data=f:\tpcd\data\hundgig\partsupp.tbl.63 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_63.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup64.log data=f:\tpcd\data\hundgig\partsupp.tbl.64 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_64.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup65.log data=f:\tpcd\data\hundgig\partsupp.tbl.65 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_65.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup66.log data=f:\tpcd\data\hundgig\partsupp.tbl.66 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_66.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup67.log data=f:\tpcd\data\hundgig\partsupp.tbl.67 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_67.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup68.log data=f:\tpcd\data\hundgig\partsupp.tbl.68 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_68.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup69.log data=f:\tpcd\data\hundgig\partsupp.tbl.69 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_69.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup70.log data=f:\tpcd\data\hundgig\partsupp.tbl.70 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_70.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup71.log data=f:\tpcd\data\hundgig\partsupp.tbl.71 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_71.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup72.log data=f:\tpcd\data\hundgig\partsupp.tbl.72 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_72.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup73.log data=f:\tpcd\data\hundgig\partsupp.tbl.73 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_73.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup74.log data=f:\tpcd\data\hundgig\partsupp.tbl.74 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_74.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup75.log data=f:\tpcd\data\hundgig\partsupp.tbl.75 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_75.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup76.log data=f:\tpcd\data\hundgig\partsupp.tbl.76 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_76.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup77.log data=f:\tpcd\data\hundgig\partsupp.tbl.77 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_77.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup78.log data=f:\tpcd\data\hundgig\partsupp.tbl.78 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_78.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup79.log data=f:\tpcd\data\hundgig\partsupp.tbl.79 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_79.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup80.log data=f:\tpcd\data\hundgig\partsupp.tbl.80 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_80.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup81.log data=f:\tpcd\data\hundgig\partsupp.tbl.81 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_81.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup82.log data=f:\tpcd\data\hundgig\partsupp.tbl.82 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_82.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup83.log data=f:\tpcd\data\hundgig\partsupp.tbl.83 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_83.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup84.log data=f:\tpcd\data\hundgig\partsupp.tbl.84 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_84.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup85.log data=f:\tpcd\data\hundgig\partsupp.tbl.85 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_85.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup86.log data=f:\tpcd\data\hundgig\partsupp.tbl.86 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_86.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup87.log data=f:\tpcd\data\hundgig\partsupp.tbl.87 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_87.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup88.log data=f:\tpcd\data\hundgig\partsupp.tbl.88 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_88.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup89.log data=f:\tpcd\data\hundgig\partsupp.tbl.89 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_89.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup90.log data=f:\tpcd\data\hundgig\partsupp.tbl.90 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_90.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup91.log data=f:\tpcd\data\hundgig\partsupp.tbl.91 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_91.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup92.log data=f:\tpcd\data\hundgig\partsupp.tbl.92 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_92.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup93.log data=f:\tpcd\data\hundgig\partsupp.tbl.93 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_93.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup94.log data=f:\tpcd\data\hundgig\partsupp.tbl.94 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_94.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup95.log data=f:\tpcd\data\hundgig\partsupp.tbl.95 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_95.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup96.log data=f:\tpcd\data\hundgig\partsupp.tbl.96 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_96.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup97.log data=f:\tpcd\data\hundgig\partsupp.tbl.97 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_97.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup98.log data=f:\tpcd\data\hundgig\partsupp.tbl.98 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_98.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup99.log data=f:\tpcd\data\hundgig\partsupp.tbl.99 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_99.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup100.log data=f:\tpcd\data\hundgig\partsupp.tbl.100
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_100.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup101.log data=f:\tpcd\data\hundgig\partsupp.tbl.101
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_101.DBF
}
*load
{
```

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup102.log data=f:\tpcd\data\hundgig\partsupp.tbl.102
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_102.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup103.log data=f:\tpcd\data\hundgig\partsupp.tbl.103
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_103.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup104.log data=f:\tpcd\data\hundgig\partsupp.tbl.104
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_104.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup105.log data=f:\tpcd\data\hundgig\partsupp.tbl.105
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_105.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup106.log data=f:\tpcd\data\hundgig\partsupp.tbl.106
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_106.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup107.log data=f:\tpcd\data\hundgig\partsupp.tbl.107
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_107.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup108.log data=f:\tpcd\data\hundgig\partsupp.tbl.108
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_108.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup109.log data=f:\tpcd\data\hundgig\partsupp.tbl.109
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_109.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup110.log data=f:\tpcd\data\hundgig\partsupp.tbl.110
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_110.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup111.log data=f:\tpcd\data\hundgig\partsupp.tbl.111
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_111.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup112.log data=f:\tpcd\data\hundgig\partsupp.tbl.112
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_112.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup113.log data=f:\tpcd\data\hundgig\partsupp.tbl.113
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_113.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup114.log data=f:\tpcd\data\hundgig\partsupp.tbl.114
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_114.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup115.log data=f:\tpcd\data\hundgig\partsupp.tbl.115
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_115.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup116.log data=f:\tpcd\data\hundgig\partsupp.tbl.116
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_116.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup117.log data=f:\tpcd\data\hundgig\partsupp.tbl.117
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_117.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup118.log data=f:\tpcd\data\hundgig\partsupp.tbl.118
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_118.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup119.log data=f:\tpcd\data\hundgig\partsupp.tbl.119
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_119.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup120.log data=f:\tpcd\data\hundgig\partsupp.tbl.120
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_120.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup121.log data=f:\tpcd\data\hundgig\partsupp.tbl.121
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_121.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup122.log data=f:\tpcd\data\hundgig\partsupp.tbl.122
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_122.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup123.log data=f:\tpcd\data\hundgig\partsupp.tbl.123
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_123.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup124.log data=f:\tpcd\data\hundgig\partsupp.tbl.124
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_124.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup125.log data=f:\tpcd\data\hundgig\partsupp.tbl.125
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_125.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup126.log data=f:\tpcd\data\hundgig\partsupp.tbl.126
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_126.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup127.log data=f:\tpcd\data\hundgig\partsupp.tbl.127
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_127.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup128.log data=f:\tpcd\data\hundgig\partsupp.tbl.128
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_128.DBF
}
*load
{
```

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup129.log data=f:\tpcd\data\hundgig\partsupp.tbl.129
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_129.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup130.log data=f:\tpcd\data\hundgig\partsupp.tbl.130
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_130.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup131.log data=f:\tpcd\data\hundgig\partsupp.tbl.131
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_131.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup132.log data=f:\tpcd\data\hundgig\partsupp.tbl.132
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_132.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup133.log data=f:\tpcd\data\hundgig\partsupp.tbl.133
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_133.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup134.log data=f:\tpcd\data\hundgig\partsupp.tbl.134
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_134.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup135.log data=f:\tpcd\data\hundgig\partsupp.tbl.135
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_135.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup136.log data=f:\tpcd\data\hundgig\partsupp.tbl.136
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_136.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup137.log data=f:\tpcd\data\hundgig\partsupp.tbl.137
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_137.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup138.log data=f:\tpcd\data\hundgig\partsupp.tbl.138
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_138.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup139.log data=f:\tpcd\data\hundgig\partsupp.tbl.139
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_139.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup140.log data=f:\tpcd\data\hundgig\partsupp.tbl.140
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_140.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup141.log data=f:\tpcd\data\hundgig\partsupp.tbl.141
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_141.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup142.log data=f:\tpcd\data\hundgig\partsupp.tbl.142
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_142.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup143.log data=f:\tpcd\data\hundgig\partsupp.tbl.143
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_143.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup144.log data=f:\tpcd\data\hundgig\partsupp.tbl.144
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_144.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup145.log data=f:\tpcd\data\hundgig\partsupp.tbl.145
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_145.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup146.log data=f:\tpcd\data\hundgig\partsupp.tbl.146
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_146.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup147.log data=f:\tpcd\data\hundgig\partsupp.tbl.147
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_147.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup148.log data=f:\tpcd\data\hundgig\partsupp.tbl.148
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_148.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup149.log data=f:\tpcd\data\hundgig\partsupp.tbl.149
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_149.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup150.log data=f:\tpcd\data\hundgig\partsupp.tbl.150
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_150.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup151.log data=f:\tpcd\data\hundgig\partsupp.tbl.151
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_151.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup152.log data=f:\tpcd\data\hundgig\partsupp.tbl.152
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_152.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup153.log data=f:\tpcd\data\hundgig\partsupp.tbl.153
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_PS_153.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup154.log data=f:\tpcd\data\hundgig\partsupp.tbl.154
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_PS_154.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup155.log data=f:\tpcd\data\hundgig\partsupp.tbl.155
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_PS_155.DBF
}
*load
{
```

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup156.log data=f:\tpcd\data\hundgig\partsupp.tbl.156
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_PS_156.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup157.log data=f:\tpcd\data\hundgig\partsupp.tbl.157
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_PS_157.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup158.log data=f:\tpcd\data\hundgig\partsupp.tbl.158
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_PS_158.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup159.log data=f:\tpcd\data\hundgig\partsupp.tbl.159
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_PS_159.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\partsupp.ctl
log=d:\tpcd\log\hundgig\psup160.log data=f:\tpcd\data\hundgig\partsupp.tbl.160
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_PS_160.DBF
}
*wait
*time=End partsupp load
*time=Begin parts load
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts1.ctl log=d:\tpcd\log\hundgig\parts1.log
data=f:\tpcd\data\hundgig\parts1.1 direct=true parallel=true
FILE=G:\TPCD\DBS\HUNDGIG\TS_P1_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts2.ctl log=d:\tpcd\log\hundgig\parts2.log
data=f:\tpcd\data\hundgig\parts1.2 direct=true parallel=true
FILE=H:\TPCD\DBS\HUNDGIG\TS_P2_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts3.ctl log=d:\tpcd\log\hundgig\parts3.log
data=f:\tpcd\data\hundgig\parts1.3 direct=true parallel=true
FILE=I:\TPCD\DBS\HUNDGIG\TS_P3_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts4.ctl log=d:\tpcd\log\hundgig\parts4.log
data=f:\tpcd\data\hundgig\parts1.4 direct=true parallel=true
FILE=J:\TPCD\DBS\HUNDGIG\TS_P4_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts5.ctl log=d:\tpcd\log\hundgig\parts5.log
data=f:\tpcd\data\hundgig\parts1.5 direct=true parallel=true
FILE=K:\TPCD\DBS\HUNDGIG\TS_P5_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts6.ctl log=d:\tpcd\log\hundgig\parts6.log
data=f:\tpcd\data\hundgig\parts1.6 direct=true parallel=true
FILE=L:\TPCD\DBS\HUNDGIG\TS_P6_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts7.ctl log=d:\tpcd\log\hundgig\parts7.log
data=f:\tpcd\data\hundgig\parts1.7 direct=true parallel=true
FILE=M:\TPCD\DBS\HUNDGIG\TS_P7_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts8.ctl log=d:\tpcd\log\hundgig\parts8.log
data=f:\tpcd\data\hundgig\parts1.8 direct=true parallel=true
FILE=N:\TPCD\DBS\HUNDGIG\TS_P8_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts9.ctl log=d:\tpcd\log\hundgig\parts9.log
data=f:\tpcd\data\hundgig\parts1.9 direct=true parallel=true
FILE=G:\TPCD\DBS\HUNDGIG\TS_P9_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts10.ctl
log=d:\tpcd\log\hundgig\parts10.log data=f:\tpcd\data\hundgig\parts1.10 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_P10_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts11.ctl
log=d:\tpcd\log\hundgig\parts11.log data=f:\tpcd\data\hundgig\parts1.11 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_P11_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts12.ctl
log=d:\tpcd\log\hundgig\parts12.log data=f:\tpcd\data\hundgig\parts1.12 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_P12_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts13.ctl
log=d:\tpcd\log\hundgig\parts13.log data=f:\tpcd\data\hundgig\parts1.13 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_P13_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts14.ctl
log=d:\tpcd\log\hundgig\parts14.log data=f:\tpcd\data\hundgig\parts1.14 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_P14_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts15.ctl
log=d:\tpcd\log\hundgig\parts15.log data=f:\tpcd\data\hundgig\parts1.15 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_P15_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts16.ctl
log=d:\tpcd\log\hundgig\parts16.log data=f:\tpcd\data\hundgig\parts1.16 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_P16_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts17.ctl
log=d:\tpcd\log\hundgig\parts17.log data=f:\tpcd\data\hundgig\parts1.17 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_P17_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts18.ctl
log=d:\tpcd\log\hundgig\parts18.log data=f:\tpcd\data\hundgig\parts1.18 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_P18_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts19.ctl
log=d:\tpcd\log\hundgig\parts19.log data=f:\tpcd\data\hundgig\parts1.19 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_P19_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts20.ctl
log=d:\tpcd\log\hundgig\parts20.log data=f:\tpcd\data\hundgig\parts1.20 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_P20_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts21.ctl
log=d:\tpcd\log\hundgig\parts21.log data=f:\tpcd\data\hundgig\parts1.21 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_P21_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts22.ctl
log=d:\tpcd\log\hundgig\parts22.log data=f:\tpcd\data\hundgig\parts1.22 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_P22_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts23.ctl
log=d:\tpcd\log\hundgig\parts23.log data=f:\tpcd\data\hundgig\parts1.23 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_P23_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts24.ctl
log=d:\tpcd\log\hundgig\parts24.log data=f:\tpcd\data\hundgig\parts1.24 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_P24_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts25.ctl
log=d:\tpcd\log\hundgig\parts25.log data=f:\tpcd\data\hundgig\parts1.25 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_P25_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts26.ctl
log=d:\tpcd\log\hundgig\parts26.log data=f:\tpcd\data\hundgig\parts1.26 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_P26_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts27.ctl
log=d:\tpcd\log\hundgig\parts27.log data=f:\tpcd\data\hundgig\parts1.27 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_P27_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts28.ctl
log=d:\tpcd\log\hundgig\parts28.log data=f:\tpcd\data\hundgig\parts1.28 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_P28_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts29.ctl
log=d:\tpcd\log\hundgig\parts29.log data=f:\tpcd\data\hundgig\parts1.29 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_P29_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts30.ctl
log=d:\tpcd\log\hundgig\parts30.log data=f:\tpcd\data\hundgig\parts1.30 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_P30_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts31.ctl
log=d:\tpcd\log\hundgig\parts31.log data=f:\tpcd\data\hundgig\parts1.31 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_P31_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts32.ctl
log=d:\tpcd\log\hundgig\parts32.log data=f:\tpcd\data\hundgig\parts1.32 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_P32_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts33.ctl
log=d:\tpcd\log\hundgig\parts33.log data=f:\tpcd\data\hundgig\parts1.33 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_P33_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts34.ctl
log=d:\tpcd\log\hundgig\parts34.log data=f:\tpcd\data\hundgig\parts1.34 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_P34_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts35.ctl
log=d:\tpcd\log\hundgig\parts35.log data=f:\tpcd\data\hundgig\parts1.35 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_P35_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts36.ctl
log=d:\tpcd\log\hundgig\parts36.log data=f:\tpcd\data\hundgig\parts1.36 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_P36_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts37.ctl
log=d:\tpcd\log\hundgig\parts37.log data=f:\tpcd\data\hundgig\parts1.37 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_P37_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts38.ctl
log=d:\tpcd\log\hundgig\parts38.log data=f:\tpcd\data\hundgig\parts1.38 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_P38_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts39.ctl
log=d:\tpcd\log\hundgig\parts39.log data=f:\tpcd\data\hundgig\parts1.39 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_P39_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts40.ctl
log=d:\tpcd\log\hundgig\parts40.log data=f:\tpcd\data\hundgig\parts1.40 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_P40_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts41.ctl
log=d:\tpcd\log\hundgig\parts41.log data=f:\tpcd\data\hundgig\parts1.41 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_P41_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts42.ctl
log=d:\tpcd\log\hundgig\parts42.log data=f:\tpcd\data\hundgig\parts1.42 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_P42_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts43.ctl
log=d:\tpcd\log\hundgig\parts43.log data=f:\tpcd\data\hundgig\parts1.43 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_P43_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts44.ctl
log=d:\tpcd\log\hundgig\parts44.log data=f:\tpcd\data\hundgig\parts1.44 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_P44_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts45.ctl
log=d:\tpcd\log\hundgig\parts45.log data=f:\tpcd\data\hundgig\parts1.45 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_P45_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts46.ctl
log=d:\tpcd\log\hundgig\parts46.log data=f:\tpcd\data\hundgig\parts1.46 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_P46_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts47.ctl
log=d:\tpcd\log\hundgig\parts47.log data=f:\tpcd\data\hundgig\parts1.47 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_P47_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts48.ctl
log=d:\tpcd\log\hundgig\parts48.log data=f:\tpcd\data\hundgig\parts1.48 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_P48_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts49.ctl
log=d:\tpcd\log\hundgig\parts49.log data=f:\tpcd\data\hundgig\parts1.49 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_P49_1.DBF
}
*load
```

```
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\parts50.ctl
log=d:\tpcd\log\hundgig\parts50.log data=f:\tpcd\data\hundgig\parts1.50 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_P50_1.DBF
}
*wait
*time=End parts load
*time=Begin customer load
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer1.ctl
log=d:\tpcd\log\hundgig\customer1.log data=f:\tpcd\data\hundgig\customer1.1 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C1_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer2.ctl
log=d:\tpcd\log\hundgig\customer2.log data=f:\tpcd\data\hundgig\customer1.2 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C2_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer3.ctl
log=d:\tpcd\log\hundgig\customer3.log data=f:\tpcd\data\hundgig\customer1.3 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C3_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer4.ctl
log=d:\tpcd\log\hundgig\customer4.log data=f:\tpcd\data\hundgig\customer1.4 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C4_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer5.ctl
log=d:\tpcd\log\hundgig\customer5.log data=f:\tpcd\data\hundgig\customer1.5 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C5_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer6.ctl
log=d:\tpcd\log\hundgig\customer6.log data=f:\tpcd\data\hundgig\customer2.1 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C1_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer7.ctl
log=d:\tpcd\log\hundgig\customer7.log data=f:\tpcd\data\hundgig\customer2.2 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C2_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer8.ctl
log=d:\tpcd\log\hundgig\customer8.log data=f:\tpcd\data\hundgig\customer2.3 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C3_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer9.ctl
log=d:\tpcd\log\hundgig\customer9.log data=f:\tpcd\data\hundgig\customer2.4 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C4_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer10.ctl
log=d:\tpcd\log\hundgig\customer10.log data=f:\tpcd\data\hundgig\customer2.5 direct=true
parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C5_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer11.ctl
log=d:\tpcd\log\hundgig\customer11.log data=f:\tpcd\data\hundgig\customer3.1 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C1_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer12.ctl
log=d:\tpcd\log\hundgig\customer12.log data=f:\tpcd\data\hundgig\customer3.2 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C2_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer13.ctl
log=d:\tpcd\log\hundgig\customer13.log data=f:\tpcd\data\hundgig\customer3.3 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C3_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer14.ctl
log=d:\tpcd\log\hundgig\customer14.log data=f:\tpcd\data\hundgig\customer3.4 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C4_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer15.ctl
log=d:\tpcd\log\hundgig\customer15.log data=f:\tpcd\data\hundgig\customer3.5 direct=true
parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C5_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer16.ctl
log=d:\tpcd\log\hundgig\customer16.log data=f:\tpcd\data\hundgig\customer4.1 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C1_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer17.ctl
log=d:\tpcd\log\hundgig\customer17.log data=f:\tpcd\data\hundgig\customer4.2 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C2_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer18.ctl
log=d:\tpcd\log\hundgig\customer18.log data=f:\tpcd\data\hundgig\customer4.3 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C3_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer19.ctl
log=d:\tpcd\log\hundgig\customer19.log data=f:\tpcd\data\hundgig\customer4.4 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C4_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer20.ctl
log=d:\tpcd\log\hundgig\customer20.log data=f:\tpcd\data\hundgig\customer4.5 direct=true
parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C5_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer21.ctl
log=d:\tpcd\log\hundgig\customer21.log data=f:\tpcd\data\hundgig\customer5.1 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C1_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer22.ctl
log=d:\tpcd\log\hundgig\customer22.log data=f:\tpcd\data\hundgig\customer5.2 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C2_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer23.ctl
log=d:\tpcd\log\hundgig\customer23.log data=f:\tpcd\data\hundgig\customer5.3 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C3_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer24.ctl
log=d:\tpcd\log\hundgig\customer24.log data=f:\tpcd\data\hundgig\customer5.4 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C4_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer25.ctl
log=d:\tpcd\log\hundgig\customer25.log data=f:\tpcd\data\hundgig\customer5.5 direct=true
parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C5_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer26.ctl
log=d:\tpcd\log\hundgig\customer26.log data=f:\tpcd\data\hundgig\customer6.1 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C1_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer27.ctl
log=d:\tpcd\log\hundgig\customer27.log data=f:\tpcd\data\hundgig\customer6.2 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C2_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer28.ctl
log=d:\tpcd\log\hundgig\customer28.log data=f:\tpcd\data\hundgig\customer6.3 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C3_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer29.ctl
log=d:\tpcd\log\hundgig\customer29.log data=f:\tpcd\data\hundgig\customer6.4 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C4_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer30.ctl
log=d:\tpcd\log\hundgig\customer30.log data=f:\tpcd\data\hundgig\customer6.5 direct=true
parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C5_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer31.ctl
log=d:\tpcd\log\hundgig\customer31.log data=f:\tpcd\data\hundgig\customer7.1 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C1_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer32.ctl
log=d:\tpcd\log\hundgig\customer32.log data=f:\tpcd\data\hundgig\customer7.2 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C2_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer33.ctl
log=d:\tpcd\log\hundgig\customer33.log data=f:\tpcd\data\hundgig\customer7.3 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C3_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer34.ctl
log=d:\tpcd\log\hundgig\customer34.log data=f:\tpcd\data\hundgig\customer7.4 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C4_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer35.ctl
log=d:\tpcd\log\hundgig\customer35.log data=f:\tpcd\data\hundgig\customer7.5 direct=true
parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C5_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer36.ctl
log=d:\tpcd\log\hundgig\customer36.log data=f:\tpcd\data\hundgig\customer8.1 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C1_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer37.ctl
log=d:\tpcd\log\hundgig\customer37.log data=f:\tpcd\data\hundgig\customer8.2 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C2_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer38.ctl
log=d:\tpcd\log\hundgig\customer38.log data=f:\tpcd\data\hundgig\customer8.3 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C3_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer39.ctl
log=d:\tpcd\log\hundgig\customer39.log data=f:\tpcd\data\hundgig\customer8.4 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C4_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer40.ctl
log=d:\tpcd\log\hundgig\customer40.log data=f:\tpcd\data\hundgig\customer8.5 direct=true
parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C5_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer41.ctl
log=d:\tpcd\log\hundgig\customer41.log data=f:\tpcd\data\hundgig\customer9.1 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C1_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer42.ctl
log=d:\tpcd\log\hundgig\customer42.log data=f:\tpcd\data\hundgig\customer9.2 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C2_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer43.ctl
log=d:\tpcd\log\hundgig\customer43.log data=f:\tpcd\data\hundgig\customer9.3 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C3_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer44.ctl
log=d:\tpcd\log\hundgig\customer44.log data=f:\tpcd\data\hundgig\customer9.4 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C4_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer45.ctl
log=d:\tpcd\log\hundgig\customer45.log data=f:\tpcd\data\hundgig\customer9.5 direct=true
parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C5_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer46.ctl
log=d:\tpcd\log\hundgig\customer46.log data=f:\tpcd\data\hundgig\customer10.1
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C1_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer47.ctl
log=d:\tpcd\log\hundgig\customer47.log data=f:\tpcd\data\hundgig\customer10.2
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C2_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer48.ctl
log=d:\tpcd\log\hundgig\customer48.log data=f:\tpcd\data\hundgig\customer10.3
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C3_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer49.ctl
log=d:\tpcd\log\hundgig\customer49.log data=f:\tpcd\data\hundgig\customer10.4
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C4_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer50.ctl
log=d:\tpcd\log\hundgig\customer50.log data=f:\tpcd\data\hundgig\customer10.5
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C5_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer51.ctl
log=d:\tpcd\log\hundgig\customer51.log data=f:\tpcd\data\hundgig\customer11.1
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C1_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer52.ctl
log=d:\tpcd\log\hundgig\customer52.log data=f:\tpcd\data\hundgig\customer11.2
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C2_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer53.ctl
log=d:\tpcd\log\hundgig\customer53.log data=f:\tpcd\data\hundgig\customer11.3
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C3_11.DBF
}
```

```
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer54.ctl
log=d:\tpcd\log\hundgig\customer54.log data=f:\tpcd\data\hundgig\customer11.4
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C4_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer55.ctl
log=d:\tpcd\log\hundgig\customer55.log data=f:\tpcd\data\hundgig\customer11.5
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C5_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer56.ctl
log=d:\tpcd\log\hundgig\customer56.log data=f:\tpcd\data\hundgig\customer12.1
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C1_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer57.ctl
log=d:\tpcd\log\hundgig\customer57.log data=f:\tpcd\data\hundgig\customer12.2
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C2_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer58.ctl
log=d:\tpcd\log\hundgig\customer58.log data=f:\tpcd\data\hundgig\customer12.3
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C3_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer59.ctl
log=d:\tpcd\log\hundgig\customer59.log data=f:\tpcd\data\hundgig\customer12.4
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C4_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer60.ctl
log=d:\tpcd\log\hundgig\customer60.log data=f:\tpcd\data\hundgig\customer12.5
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C5_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer61.ctl
log=d:\tpcd\log\hundgig\customer61.log data=f:\tpcd\data\hundgig\customer13.1
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C1_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer62.ctl
log=d:\tpcd\log\hundgig\customer62.log data=f:\tpcd\data\hundgig\customer13.2
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C2_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer63.ctl
log=d:\tpcd\log\hundgig\customer63.log data=f:\tpcd\data\hundgig\customer13.3
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C3_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer64.ctl
log=d:\tpcd\log\hundgig\customer64.log data=f:\tpcd\data\hundgig\customer13.4
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C4_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer65.ctl
log=d:\tpcd\log\hundgig\customer65.log data=f:\tpcd\data\hundgig\customer13.5
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C5_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer66.ctl
log=d:\tpcd\log\hundgig\customer66.log data=f:\tpcd\data\hundgig\customer14.1
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C1_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer67.ctl
log=d:\tpcd\log\hundgig\customer67.log data=f:\tpcd\data\hundgig\customer14.2
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C2_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer68.ctl
log=d:\tpcd\log\hundgig\customer68.log data=f:\tpcd\data\hundgig\customer14.3
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C3_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer69.ctl
log=d:\tpcd\log\hundgig\customer69.log data=f:\tpcd\data\hundgig\customer14.4
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C4_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer70.ctl
log=d:\tpcd\log\hundgig\customer70.log data=f:\tpcd\data\hundgig\customer14.5
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C5_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer71.ctl
log=d:\tpcd\log\hundgig\customer71.log data=f:\tpcd\data\hundgig\customer15.1
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C1_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer72.ctl
log=d:\tpcd\log\hundgig\customer72.log data=f:\tpcd\data\hundgig\customer15.2
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C2_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer73.ctl
log=d:\tpcd\log\hundgig\customer73.log data=f:\tpcd\data\hundgig\customer15.3
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C3_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer74.ctl
log=d:\tpcd\log\hundgig\customer74.log data=f:\tpcd\data\hundgig\customer15.4
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C4_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer75.ctl
log=d:\tpcd\log\hundgig\customer75.log data=f:\tpcd\data\hundgig\customer15.5
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C5_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer76.ctl
log=d:\tpcd\log\hundgig\customer76.log data=f:\tpcd\data\hundgig\customer16.1
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C1_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer77.ctl
log=d:\tpcd\log\hundgig\customer77.log data=f:\tpcd\data\hundgig\customer16.2
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C2_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer78.ctl
log=d:\tpcd\log\hundgig\customer78.log data=f:\tpcd\data\hundgig\customer16.3
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C3_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer79.ctl
log=d:\tpcd\log\hundgig\customer79.log data=f:\tpcd\data\hundgig\customer16.4
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C4_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer80.ctl
log=d:\tpcd\log\hundgig\customer80.log data=f:\tpcd\data\hundgig\customer16.5
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C5_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer81.ctl
log=d:\tpcd\log\hundgig\customer81.log data=f:\tpcd\data\hundgig\customer17.1
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C1_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer82.ctl
log=d:\tpcd\log\hundgig\customer82.log data=f:\tpcd\data\hundgig\customer17.2
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C2_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer83.ctl
log=d:\tpcd\log\hundgig\customer83.log data=f:\tpcd\data\hundgig\customer17.3
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C3_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer84.ctl
log=d:\tpcd\log\hundgig\customer84.log data=f:\tpcd\data\hundgig\customer17.4
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C4_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer85.ctl
log=d:\tpcd\log\hundgig\customer85.log data=f:\tpcd\data\hundgig\customer17.5
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C5_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer86.ctl
log=d:\tpcd\log\hundgig\customer86.log data=f:\tpcd\data\hundgig\customer18.1
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C1_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer87.ctl
log=d:\tpcd\log\hundgig\customer87.log data=f:\tpcd\data\hundgig\customer18.2
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C2_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer88.ctl
log=d:\tpcd\log\hundgig\customer88.log data=f:\tpcd\data\hundgig\customer18.3
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C3_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer89.ctl
log=d:\tpcd\log\hundgig\customer89.log data=f:\tpcd\data\hundgig\customer18.4
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C4_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer90.ctl
log=d:\tpcd\log\hundgig\customer90.log data=f:\tpcd\data\hundgig\customer18.5
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C5_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer91.ctl
log=d:\tpcd\log\hundgig\customer91.log data=f:\tpcd\data\hundgig\customer19.1
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C1_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer92.ctl
log=d:\tpcd\log\hundgig\customer92.log data=f:\tpcd\data\hundgig\customer19.2
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C2_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer93.ctl
log=d:\tpcd\log\hundgig\customer93.log data=f:\tpcd\data\hundgig\customer19.3
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C3_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer94.ctl
log=d:\tpcd\log\hundgig\customer94.log data=f:\tpcd\data\hundgig\customer19.4
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C4_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer95.ctl
log=d:\tpcd\log\hundgig\customer95.log data=f:\tpcd\data\hundgig\customer19.5
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C5_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer96.ctl
log=d:\tpcd\log\hundgig\customer96.log data=f:\tpcd\data\hundgig\customer20.1
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C1_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer97.ctl
log=d:\tpcd\log\hundgig\customer97.log data=f:\tpcd\data\hundgig\customer20.2
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C2_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer98.ctl
log=d:\tpcd\log\hundgig\customer98.log data=f:\tpcd\data\hundgig\customer20.3
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C3_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer99.ctl
log=d:\tpcd\log\hundgig\customer99.log data=f:\tpcd\data\hundgig\customer20.4
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C4_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer100.ctl
log=d:\tpcd\log\hundgig\customer100.log data=f:\tpcd\data\hundgig\customer20.5
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C5_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer101.ctl
log=d:\tpcd\log\hundgig\customer101.log data=f:\tpcd\data\hundgig\customer21.1
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C1_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer102.ctl
log=d:\tpcd\log\hundgig\customer102.log data=f:\tpcd\data\hundgig\customer21.2
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C2_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer103.ctl
log=d:\tpcd\log\hundgig\customer103.log data=f:\tpcd\data\hundgig\customer21.3
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C3_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer104.ctl
log=d:\tpcd\log\hundgig\customer104.log data=f:\tpcd\data\hundgig\customer21.4
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C4_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer105.ctl
log=d:\tpcd\log\hundgig\customer105.log data=f:\tpcd\data\hundgig\customer21.5
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C5_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer106.ctl
log=d:\tpcd\log\hundgig\customer106.log data=f:\tpcd\data\hundgig\customer22.1
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C1_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer107.ctl
log=d:\tpcd\log\hundgig\customer107.log data=f:\tpcd\data\hundgig\customer22.2
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C2_6.DBF
}
*load
{
```

Appendix B

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer108.ctl
log=d:\tpcd\log\hundgig\customer108.log data=f:\tpcd\data\hundgig\customer22.3
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C3_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer109.ctl
log=d:\tpcd\log\hundgig\customer109.log data=f:\tpcd\data\hundgig\customer22.4
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C4_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer110.ctl
log=d:\tpcd\log\hundgig\customer110.log data=f:\tpcd\data\hundgig\customer22.5
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C5_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer111.ctl
log=d:\tpcd\log\hundgig\customer111.log data=f:\tpcd\data\hundgig\customer23.1
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C1_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer112.ctl
log=d:\tpcd\log\hundgig\customer112.log data=f:\tpcd\data\hundgig\customer23.2
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C2_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer113.ctl
log=d:\tpcd\log\hundgig\customer113.log data=f:\tpcd\data\hundgig\customer23.3
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C3_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer114.ctl
log=d:\tpcd\log\hundgig\customer114.log data=f:\tpcd\data\hundgig\customer23.4
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C4_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer115.ctl
log=d:\tpcd\log\hundgig\customer115.log data=f:\tpcd\data\hundgig\customer23.5
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C5_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer116.ctl
log=d:\tpcd\log\hundgig\customer116.log data=f:\tpcd\data\hundgig\customer24.1
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C1_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer117.ctl
log=d:\tpcd\log\hundgig\customer117.log data=f:\tpcd\data\hundgig\customer24.2
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C2_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer118.ctl
log=d:\tpcd\log\hundgig\customer118.log data=f:\tpcd\data\hundgig\customer24.3
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C3_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer119.ctl
log=d:\tpcd\log\hundgig\customer119.log data=f:\tpcd\data\hundgig\customer24.4
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C4_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer120.ctl
log=d:\tpcd\log\hundgig\customer120.log data=f:\tpcd\data\hundgig\customer24.5
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C5_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer121.ctl
log=d:\tpcd\log\hundgig\customer121.log data=f:\tpcd\data\hundgig\customer25.1
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C1_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer122.ctl
log=d:\tpcd\log\hundgig\customer122.log data=f:\tpcd\data\hundgig\customer25.2
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C2_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer123.ctl
log=d:\tpcd\log\hundgig\customer123.log data=f:\tpcd\data\hundgig\customer25.3
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C3_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer124.ctl
log=d:\tpcd\log\hundgig\customer124.log data=f:\tpcd\data\hundgig\customer25.4
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C4_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer125.ctl
log=d:\tpcd\log\hundgig\customer125.log data=f:\tpcd\data\hundgig\customer25.5
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_C5_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer126.ctl
log=d:\tpcd\log\hundgig\customer126.log data=f:\tpcd\data\hundgig\customer26.1
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C1_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer127.ctl
log=d:\tpcd\log\hundgig\customer127.log data=f:\tpcd\data\hundgig\customer26.2
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C2_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer128.ctl
log=d:\tpcd\log\hundgig\customer128.log data=f:\tpcd\data\hundgig\customer26.3
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C3_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer129.ctl
log=d:\tpcd\log\hundgig\customer129.log data=f:\tpcd\data\hundgig\customer26.4
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C4_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer130.ctl
log=d:\tpcd\log\hundgig\customer130.log data=f:\tpcd\data\hundgig\customer26.5
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_C5_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer131.ctl
log=d:\tpcd\log\hundgig\customer131.log data=f:\tpcd\data\hundgig\customer27.1
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C1_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer132.ctl
log=d:\tpcd\log\hundgig\customer132.log data=f:\tpcd\data\hundgig\customer27.2
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C2_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer133.ctl
log=d:\tpcd\log\hundgig\customer133.log data=f:\tpcd\data\hundgig\customer27.3
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C3_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer134.ctl
log=d:\tpcd\log\hundgig\customer134.log data=f:\tpcd\data\hundgig\customer27.4
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C4_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer135.ctl
log=d:\tpcd\log\hundgig\customer135.log data=f:\tpcd\data\hundgig\customer27.5
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_C5_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer136.ctl
log=d:\tpcd\log\hundgig\customer136.log data=f:\tpcd\data\hundgig\customer28.1
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C1_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer137.ctl
log=d:\tpcd\log\hundgig\customer137.log data=f:\tpcd\data\hundgig\customer28.2
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C2_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer138.ctl
log=d:\tpcd\log\hundgig\customer138.log data=f:\tpcd\data\hundgig\customer28.3
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C3_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer139.ctl
log=d:\tpcd\log\hundgig\customer139.log data=f:\tpcd\data\hundgig\customer28.4
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C4_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer140.ctl
log=d:\tpcd\log\hundgig\customer140.log data=f:\tpcd\data\hundgig\customer28.5
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_C5_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer141.ctl
log=d:\tpcd\log\hundgig\customer141.log data=f:\tpcd\data\hundgig\customer29.1
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C1_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer142.ctl
log=d:\tpcd\log\hundgig\customer142.log data=f:\tpcd\data\hundgig\customer29.2
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C2_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer143.ctl
log=d:\tpcd\log\hundgig\customer143.log data=f:\tpcd\data\hundgig\customer29.3
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C3_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer144.ctl
log=d:\tpcd\log\hundgig\customer144.log data=f:\tpcd\data\hundgig\customer29.4
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C4_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer145.ctl
log=d:\tpcd\log\hundgig\customer145.log data=f:\tpcd\data\hundgig\customer29.5
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_C5_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer146.ctl
log=d:\tpcd\log\hundgig\customer146.log data=f:\tpcd\data\hundgig\customer30.1
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C1_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer147.ctl
log=d:\tpcd\log\hundgig\customer147.log data=f:\tpcd\data\hundgig\customer30.2
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C2_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer148.ctl
log=d:\tpcd\log\hundgig\customer148.log data=f:\tpcd\data\hundgig\customer30.3
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C3_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer149.ctl
log=d:\tpcd\log\hundgig\customer149.log data=f:\tpcd\data\hundgig\customer30.4
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C4_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer150.ctl
log=d:\tpcd\log\hundgig\customer150.log data=f:\tpcd\data\hundgig\customer30.5
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_C5_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer151.ctl
log=d:\tpcd\log\hundgig\customer151.log data=f:\tpcd\data\hundgig\customer31.1
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C1_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer152.ctl
log=d:\tpcd\log\hundgig\customer152.log data=f:\tpcd\data\hundgig\customer31.2
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C2_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer153.ctl
log=d:\tpcd\log\hundgig\customer153.log data=f:\tpcd\data\hundgig\customer31.3
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C3_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer154.ctl
log=d:\tpcd\log\hundgig\customer154.log data=f:\tpcd\data\hundgig\customer31.4
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C4_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer155.ctl
log=d:\tpcd\log\hundgig\customer155.log data=f:\tpcd\data\hundgig\customer31.5
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_C5_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer156.ctl
log=d:\tpcd\log\hundgig\customer156.log data=f:\tpcd\data\hundgig\customer32.1
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C1_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer157.ctl
log=d:\tpcd\log\hundgig\customer157.log data=f:\tpcd\data\hundgig\customer32.2
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C2_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer158.ctl
log=d:\tpcd\log\hundgig\customer158.log data=f:\tpcd\data\hundgig\customer32.3
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C3_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer159.ctl
log=d:\tpcd\log\hundgig\customer159.log data=f:\tpcd\data\hundgig\customer32.4
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C4_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\customer160.ctl
log=d:\tpcd\log\hundgig\customer160.log data=f:\tpcd\data\hundgig\customer32.5
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_C5_16.DBF
}
*wait
*time=End customer load
*time=Begin supplier load
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier1.log data=f:\tpcd\data\hundgig\supplier.tbl.1
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_1.DBF
}
```

```
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier2.log data=f:\tpcd\data\hundgig\supplier.tbl.2
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier3.log data=f:\tpcd\data\hundgig\supplier.tbl.3
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier4.log data=f:\tpcd\data\hundgig\supplier.tbl.4
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier5.log data=f:\tpcd\data\hundgig\supplier.tbl.5
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier6.log data=f:\tpcd\data\hundgig\supplier.tbl.6
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier7.log data=f:\tpcd\data\hundgig\supplier.tbl.7
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier8.log data=f:\tpcd\data\hundgig\supplier.tbl.8
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier9.log data=f:\tpcd\data\hundgig\supplier.tbl.9
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier10.log data=f:\tpcd\data\hundgig\supplier.tbl.10
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier11.log data=f:\tpcd\data\hundgig\supplier.tbl.11
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier12.log data=f:\tpcd\data\hundgig\supplier.tbl.12
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier13.log data=f:\tpcd\data\hundgig\supplier.tbl.13
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier14.log data=f:\tpcd\data\hundgig\supplier.tbl.14
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier15.log data=f:\tpcd\data\hundgig\supplier.tbl.15
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier16.log data=f:\tpcd\data\hundgig\supplier.tbl.16
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier17.log data=f:\tpcd\data\hundgig\supplier.tbl.17
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_17.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier18.log data=f:\tpcd\data\hundgig\supplier.tbl.18
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_18.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier19.log data=f:\tpcd\data\hundgig\supplier.tbl.19
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_19.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier20.log data=f:\tpcd\data\hundgig\supplier.tbl.20
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_20.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier21.log data=f:\tpcd\data\hundgig\supplier.tbl.21
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_21.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier22.log data=f:\tpcd\data\hundgig\supplier.tbl.22
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_22.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier23.log data=f:\tpcd\data\hundgig\supplier.tbl.23
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_23.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier24.log data=f:\tpcd\data\hundgig\supplier.tbl.24
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_24.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier25.log data=f:\tpcd\data\hundgig\supplier.tbl.25
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_25.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier26.log data=f:\tpcd\data\hundgig\supplier.tbl.26
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_26.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier27.log data=f:\tpcd\data\hundgig\supplier.tbl.27
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_27.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier28.log data=f:\tpcd\data\hundgig\supplier.tbl.28
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_28.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier29.log data=f:\tpcd\data\hundgig\supplier.tbl.29
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_29.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier30.log data=f:\tpcd\data\hundgig\supplier.tbl.30
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_30.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier31.log data=f:\tpcd\data\hundgig\supplier.tbl.31
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_31.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier32.log data=f:\tpcd\data\hundgig\supplier.tbl.32
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_32.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier33.log data=f:\tpcd\data\hundgig\supplier.tbl.33
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_33.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier34.log data=f:\tpcd\data\hundgig\supplier.tbl.34
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_34.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier35.log data=f:\tpcd\data\hundgig\supplier.tbl.35
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_35.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier36.log data=f:\tpcd\data\hundgig\supplier.tbl.36
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_36.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier37.log data=f:\tpcd\data\hundgig\supplier.tbl.37
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_37.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier38.log data=f:\tpcd\data\hundgig\supplier.tbl.38
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_38.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier39.log data=f:\tpcd\data\hundgig\supplier.tbl.39
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_39.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier40.log data=f:\tpcd\data\hundgig\supplier.tbl.40
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_40.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier41.log data=f:\tpcd\data\hundgig\supplier.tbl.41
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_41.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier42.log data=f:\tpcd\data\hundgig\supplier.tbl.42
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_42.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier43.log data=f:\tpcd\data\hundgig\supplier.tbl.43
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_43.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier44.log data=f:\tpcd\data\hundgig\supplier.tbl.44
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_44.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier45.log data=f:\tpcd\data\hundgig\supplier.tbl.45
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_45.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier46.log data=f:\tpcd\data\hundgig\supplier.tbl.46
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_46.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier47.log data=f:\tpcd\data\hundgig\supplier.tbl.47
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_47.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier48.log data=f:\tpcd\data\hundgig\supplier.tbl.48
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_48.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier49.log data=f:\tpcd\data\hundgig\supplier.tbl.49
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_49.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier50.log data=f:\tpcd\data\hundgig\supplier.tbl.50
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_50.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier51.log data=f:\tpcd\data\hundgig\supplier.tbl.51
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_51.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier52.log data=f:\tpcd\data\hundgig\supplier.tbl.52
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_52.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier53.log data=f:\tpcd\data\hundgig\supplier.tbl.53
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_53.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier54.log data=f:\tpcd\data\hundgig\supplier.tbl.54
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_54.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier55.log data=f:\tpcd\data\hundgig\supplier.tbl.55
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_55.DBF
}
*load
{
```

Appendix B

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier56.log data=f:\tpcd\data\hundgig\supplier.tbl.56
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_56.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier57.log data=f:\tpcd\data\hundgig\supplier.tbl.57
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_57.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier58.log data=f:\tpcd\data\hundgig\supplier.tbl.58
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_58.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier59.log data=f:\tpcd\data\hundgig\supplier.tbl.59
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_59.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier60.log data=f:\tpcd\data\hundgig\supplier.tbl.60
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_60.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier61.log data=f:\tpcd\data\hundgig\supplier.tbl.61
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_61.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier62.log data=f:\tpcd\data\hundgig\supplier.tbl.62
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_62.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier63.log data=f:\tpcd\data\hundgig\supplier.tbl.63
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_63.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier64.log data=f:\tpcd\data\hundgig\supplier.tbl.64
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_64.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier65.log data=f:\tpcd\data\hundgig\supplier.tbl.65
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_65.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier66.log data=f:\tpcd\data\hundgig\supplier.tbl.66
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_66.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier67.log data=f:\tpcd\data\hundgig\supplier.tbl.67
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_67.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier68.log data=f:\tpcd\data\hundgig\supplier.tbl.68
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_68.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier69.log data=f:\tpcd\data\hundgig\supplier.tbl.69
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_69.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier70.log data=f:\tpcd\data\hundgig\supplier.tbl.70
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_70.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier71.log data=f:\tpcd\data\hundgig\supplier.tbl.71
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_71.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier72.log data=f:\tpcd\data\hundgig\supplier.tbl.72
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_72.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier73.log data=f:\tpcd\data\hundgig\supplier.tbl.73
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_73.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier74.log data=f:\tpcd\data\hundgig\supplier.tbl.74
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_74.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier75.log data=f:\tpcd\data\hundgig\supplier.tbl.75
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_75.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier76.log data=f:\tpcd\data\hundgig\supplier.tbl.76
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_76.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier77.log data=f:\tpcd\data\hundgig\supplier.tbl.77
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_77.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier78.log data=f:\tpcd\data\hundgig\supplier.tbl.78
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_78.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier79.log data=f:\tpcd\data\hundgig\supplier.tbl.79
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_79.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier80.log data=f:\tpcd\data\hundgig\supplier.tbl.80
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_80.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier81.log data=f:\tpcd\data\hundgig\supplier.tbl.81
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_1.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier82.log data=f:\tpcd\data\hundgig\supplier.tbl.82
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_2.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier83.log data=f:\tpcd\data\hundgig\supplier.tbl.83
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_3.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier84.log data=f:\tpcd\data\hundgig\supplier.tbl.84
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_4.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier85.log data=f:\tpcd\data\hundgig\supplier.tbl.85
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_5.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier86.log data=f:\tpcd\data\hundgig\supplier.tbl.86
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_6.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier87.log data=f:\tpcd\data\hundgig\supplier.tbl.87
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_7.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier88.log data=f:\tpcd\data\hundgig\supplier.tbl.88
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_8.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier89.log data=f:\tpcd\data\hundgig\supplier.tbl.89
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_9.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier90.log data=f:\tpcd\data\hundgig\supplier.tbl.90
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_10.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier91.log data=f:\tpcd\data\hundgig\supplier.tbl.91
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_11.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier92.log data=f:\tpcd\data\hundgig\supplier.tbl.92
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_12.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier93.log data=f:\tpcd\data\hundgig\supplier.tbl.93
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_13.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier94.log data=f:\tpcd\data\hundgig\supplier.tbl.94
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_14.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier95.log data=f:\tpcd\data\hundgig\supplier.tbl.95
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_15.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier96.log data=f:\tpcd\data\hundgig\supplier.tbl.96
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_16.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier97.log data=f:\tpcd\data\hundgig\supplier.tbl.97
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_17.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier98.log data=f:\tpcd\data\hundgig\supplier.tbl.98
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_18.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier99.log data=f:\tpcd\data\hundgig\supplier.tbl.99
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_19.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier100.log data=f:\tpcd\data\hundgig\supplier.tbl.100
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_20.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier101.log data=f:\tpcd\data\hundgig\supplier.tbl.101
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_21.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier102.log data=f:\tpcd\data\hundgig\supplier.tbl.102
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_22.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier103.log data=f:\tpcd\data\hundgig\supplier.tbl.103
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_23.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier104.log data=f:\tpcd\data\hundgig\supplier.tbl.104
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_24.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier105.log data=f:\tpcd\data\hundgig\supplier.tbl.105
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_25.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier106.log data=f:\tpcd\data\hundgig\supplier.tbl.106
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_26.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier107.log data=f:\tpcd\data\hundgig\supplier.tbl.107
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_27.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier108.log data=f:\tpcd\data\hundgig\supplier.tbl.108
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_28.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier109.log data=f:\tpcd\data\hundgig\supplier.tbl.109
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_29.DBF
}
*load
{
```

```
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier110.log data=f:\tpcd\data\hundgig\supplier.tbl.110
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_30.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier111.log data=f:\tpcd\data\hundgig\supplier.tbl.111
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_31.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier112.log data=f:\tpcd\data\hundgig\supplier.tbl.112
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_32.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier113.log data=f:\tpcd\data\hundgig\supplier.tbl.113
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_33.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier114.log data=f:\tpcd\data\hundgig\supplier.tbl.114
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_34.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier115.log data=f:\tpcd\data\hundgig\supplier.tbl.115
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_35.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier116.log data=f:\tpcd\data\hundgig\supplier.tbl.116
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_36.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier117.log data=f:\tpcd\data\hundgig\supplier.tbl.117
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_37.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier118.log data=f:\tpcd\data\hundgig\supplier.tbl.118
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_38.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier119.log data=f:\tpcd\data\hundgig\supplier.tbl.119
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_39.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier120.log data=f:\tpcd\data\hundgig\supplier.tbl.120
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_40.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier121.log data=f:\tpcd\data\hundgig\supplier.tbl.121
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_41.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier122.log data=f:\tpcd\data\hundgig\supplier.tbl.122
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_42.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier123.log data=f:\tpcd\data\hundgig\supplier.tbl.123
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_43.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier124.log data=f:\tpcd\data\hundgig\supplier.tbl.124
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_44.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier125.log data=f:\tpcd\data\hundgig\supplier.tbl.125
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_45.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier126.log data=f:\tpcd\data\hundgig\supplier.tbl.126
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_46.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier127.log data=f:\tpcd\data\hundgig\supplier.tbl.127
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_47.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier128.log data=f:\tpcd\data\hundgig\supplier.tbl.128
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_48.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier129.log data=f:\tpcd\data\hundgig\supplier.tbl.129
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_49.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier130.log data=f:\tpcd\data\hundgig\supplier.tbl.130
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_50.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier131.log data=f:\tpcd\data\hundgig\supplier.tbl.131
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_51.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier132.log data=f:\tpcd\data\hundgig\supplier.tbl.132
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_52.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier133.log data=f:\tpcd\data\hundgig\supplier.tbl.133
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_53.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier134.log data=f:\tpcd\data\hundgig\supplier.tbl.134
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_54.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier135.log data=f:\tpcd\data\hundgig\supplier.tbl.135
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_55.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier136.log data=f:\tpcd\data\hundgig\supplier.tbl.136
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_56.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier137.log data=f:\tpcd\data\hundgig\supplier.tbl.137
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_57.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier138.log data=f:\tpcd\data\hundgig\supplier.tbl.138
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_58.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier139.log data=f:\tpcd\data\hundgig\supplier.tbl.139
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_59.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier140.log data=f:\tpcd\data\hundgig\supplier.tbl.140
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_60.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier141.log data=f:\tpcd\data\hundgig\supplier.tbl.141
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_61.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier142.log data=f:\tpcd\data\hundgig\supplier.tbl.142
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_62.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier143.log data=f:\tpcd\data\hundgig\supplier.tbl.143
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_63.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier144.log data=f:\tpcd\data\hundgig\supplier.tbl.144
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_64.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier145.log data=f:\tpcd\data\hundgig\supplier.tbl.145
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_65.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier146.log data=f:\tpcd\data\hundgig\supplier.tbl.146
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_66.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier147.log data=f:\tpcd\data\hundgig\supplier.tbl.147
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_67.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier148.log data=f:\tpcd\data\hundgig\supplier.tbl.148
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_68.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier149.log data=f:\tpcd\data\hundgig\supplier.tbl.149
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_69.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier150.log data=f:\tpcd\data\hundgig\supplier.tbl.150
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_70.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier151.log data=f:\tpcd\data\hundgig\supplier.tbl.151
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_71.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier152.log data=f:\tpcd\data\hundgig\supplier.tbl.152
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_72.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier153.log data=f:\tpcd\data\hundgig\supplier.tbl.153
direct=true parallel=true FILE=G:\TPCD\DBS\HUNDGIG\TS_S_73.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier154.log data=f:\tpcd\data\hundgig\supplier.tbl.154
direct=true parallel=true FILE=H:\TPCD\DBS\HUNDGIG\TS_S_74.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier155.log data=f:\tpcd\data\hundgig\supplier.tbl.155
direct=true parallel=true FILE=I:\TPCD\DBS\HUNDGIG\TS_S_75.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier156.log data=f:\tpcd\data\hundgig\supplier.tbl.156
direct=true parallel=true FILE=J:\TPCD\DBS\HUNDGIG\TS_S_76.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier157.log data=f:\tpcd\data\hundgig\supplier.tbl.157
direct=true parallel=true FILE=K:\TPCD\DBS\HUNDGIG\TS_S_77.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier158.log data=f:\tpcd\data\hundgig\supplier.tbl.158
direct=true parallel=true FILE=L:\TPCD\DBS\HUNDGIG\TS_S_78.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier159.log data=f:\tpcd\data\hundgig\supplier.tbl.159
direct=true parallel=true FILE=M:\TPCD\DBS\HUNDGIG\TS_S_79.DBF
}
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\supplier.ctl
log=d:\tpcd\log\hundgig\supplier160.log data=f:\tpcd\data\hundgig\supplier.tbl.160
direct=true parallel=true FILE=N:\TPCD\DBS\HUNDGIG\TS_S_80.DBF
}
*wait
*time=End supplier load
*time=Begin nation load
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\nation.ctl log=d:\tpcd\log\hundgig\nation.log
data=f:\tpcd\data\hundgig\nation.tbl direct=true FILE=D:\TPCD\DBS\HUNDGIG\SYS.DBF
}
*wait
*wait
*time=End nation load
*time=Begin region load
*load
{
tpcd/tpcd control=d:\tpcd\loadctl\hundgig\region.ctl log=d:\tpcd\log\hundgig\region.log
data=f:\tpcd\data\hundgig\region.tbl direct=true FILE=D:\TPCD\DBS\HUNDGIG\SYS.DBF
}
*wait
*wait
*time=End region load
*sql
```

```
{
shutdown
}
*wait
*time=Done data population
*wait
*bgoff
%e-dapop
```

100G_DG_IXCRE.DAT

```
#########################################################################
##
# preprocessing-like directives

%b-preproc

*sql
\svrmgr30 <<!
\set echo on;
\set termout on;
\connect internal;
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\{}
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\exit;
\!

*load
\sqlldr80 {}

*mknod
\mknod {}

*dbgen
\dbgen {}

*sh
\{}

%e-preproc
%b-ixcre
*bgon=1
#########################################################################
#######
# Index Creation Phase
*time=Begin index creation
*wait
*sql
{
shutdown
startup pfile=d:\tpcd\dbs\hundgig\init1_tpcd.ora
}
*wait
*time=Begin creating index ps_pksk
*sql
{
connect tpcd/tpcd;
drop index ps_pksk;
create unique index ps_pksk
on partsupp (ps_partkey,ps_suppkey)
pctfree 1
tablespace ts_ind4
storage (initial 1m next 1m maxextents unlimited pctincrease 0)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index ps_pksk
*time=Begin creating index ps_pksksc
*sql
{
connect tpcd/tpcd;
drop index ps_pksksc;
create unique index ps_pksksc
on partsupp (ps_partkey,ps_suppkey,ps_supplycost)
pctfree 1
tablespace ts_ind4
storage (initial 1m next 1m maxextents unlimited pctincrease 0)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index ps_pksksc
*time=Begin creating index ps_spsa
*sql
{
connect tpcd/tpcd;
drop index ps_spsa;
create unique index ps_spsa
on partsupp (ps_suppkey,ps_partkey,ps_supplycost,ps_availqty)
pctfree 1
tablespace ts_ind4
storage (initial 1m next 1m maxextents unlimited pctincrease 0)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index ps_spsa
*time=Begin creating index l_ored
*sql
{
connect tpcd/tpcd;
drop index l_ored;
create index l_ored
on lineitem (l_orderkey,l_returnflag,l_extendedprice,l_discount)
pctfree 2
initrans 10
tablespace ts_ind1
storage (initial 5m next 5m freelists 16 freelist groups 5 maxextents
unlimited pctincrease 0)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index l_ored
*time=Begin creating index o_clokod
*sql
{
connect tpcd/tpcd;
drop index o_clokod;
create index o_clokod
on orders (o_clerk,o_orderkey,o_orderdate)
pctfree 2
initrans 10
tablespace ts_ind3
storage (initial 5m next 5m freelists 16 freelist groups 5 maxextents
unlimited pctincrease 0)
local (
partition oclokod1,
partition oclokod2,
partition oclokod3,
partition oclokod4,
partition oclokod5,
partition oclokod6,
partition oclokod7,
partition oclokod8,
partition oclokod9,
partition oclokod10,
partition oclokod11,
partition oclokod12,
partition oclokod13,
partition oclokod14,
partition oclokod15,
partition oclokod16,
partition oclokod17,
partition oclokod18,
partition oclokod19,
partition oclokod20,
partition oclokod21,
partition oclokod22,
partition oclokod23,
partition oclokod24,
partition oclokod25,
partition oclokod26,
partition oclokod27,
partition oclokod28,
partition oclokod29,
partition oclokod30,
partition oclokod31,
partition oclokod32,
partition oclokod33,
partition oclokod34,
partition oclokod35,
partition oclokod36,
partition oclokod37,
partition oclokod38,
partition oclokod39,
partition oclokod40,
partition oclokod41,
partition oclokod42,
partition oclokod43,
partition oclokod44,
partition oclokod45,
partition oclokod46,
partition oclokod47,
partition oclokod48,
partition oclokod49,
partition oclokod50,
partition oclokod51,
partition oclokod52,
partition oclokod53,
partition oclokod54,
partition oclokod55,
partition oclokod56,
partition oclokod57,
partition oclokod58,
partition oclokod59,
partition oclokod60,
partition oclokod61,
partition oclokod62,
partition oclokod63,
partition oclokod64,
partition oclokod65,
partition oclokod66,
partition oclokod67,
partition oclokod68,
partition oclokod69,
partition oclokod70,
partition oclokod71,
partition oclokod72,
partition oclokod73,
partition oclokod74,
partition oclokod75,
partition oclokod76,
partition oclokod77,
partition oclokod78,
partition oclokod79,
partition oclokod80
)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index o_clokod
*time=Begin creating index l_pqesod
*sql
{
connect tpcd/tpcd;
drop index l_pqesod;
create index l_pqesod
on lineitem
(l_partkey,l_quantity,l_extendedprice,l_suppkey,l_orderkey,l_discount)
pctfree 2
initrans 10
tablespace ts_ind1
storage (initial 5m next 5m freelists 16 freelist groups 5 maxextents
unlimited pctincrease 0)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index l_pqesod
*time=Begin creating index l_rossc
*sql
{
connect tpcd/tpcd;
drop index l_rossc;
create index l_rossc
on lineitem
(l_receiptdate,l_orderkey,l_shipmode,l_shipdate,l_commitdate)
pctfree 2
initrans 10
tablespace ts_ind5
storage (initial 5m next 5m freelists 16 freelist groups 5 maxextents
unlimited pctincrease 0)
global partition by range (l_receiptdate)
(
partition lrossc1 values less than (to_date('1992-02-01','YYYY-MM-
DD')),
partition lrossc2 values less than (to_date('1992-03-01','YYYY-MM-
DD')),
partition lrossc3 values less than (to_date('1992-04-01','YYYY-MM-DD')),
partition lrossc4 values less than (to_date('1992-05-01','YYYY-MM-DD')),
partition lrossc5 values less than (to_date('1992-06-01','YYYY-MM-DD')),
partition lrossc6 values less than (to_date('1992-07-01','YYYY-MM-DD')),
partition lrossc7 values less than (to_date('1992-08-01','YYYY-MM-DD')),
partition lrossc8 values less than (to_date('1992-09-01','YYYY-MM-DD')),
partition lrossc9 values less than (to_date('1992-10-01','YYYY-MM-DD')),
partition lrossc10 values less than (to_date('1992-11-01','YYYY-MM-DD')),
partition lrossc11 values less than (to_date('1992-12-01','YYYY-MM-DD')),
partition lrossc12 values less than (to_date('1993-01-01','YYYY-MM-DD')),
partition lrossc13 values less than (to_date('1993-02-01','YYYY-MM-DD')),
partition lrossc14 values less than (to_date('1993-03-01','YYYY-MM-DD')),
partition lrossc15 values less than (to_date('1993-04-01','YYYY-MM-DD')),
partition lrossc16 values less than (to_date('1993-05-01','YYYY-MM-DD')),
partition lrossc17 values less than (to_date('1993-06-01','YYYY-MM-DD')),
partition lrossc18 values less than (to_date('1993-07-01','YYYY-MM-DD')),
partition lrossc19 values less than (to_date('1993-08-01','YYYY-MM-DD')),
partition lrossc20 values less than (to_date('1993-09-01','YYYY-MM-DD')),
partition lrossc21 values less than (to_date('1993-10-01','YYYY-MM-DD')),
partition lrossc22 values less than (to_date('1993-11-01','YYYY-MM-DD')),
partition lrossc23 values less than (to_date('1993-12-01','YYYY-MM-DD')),
partition lrossc24 values less than (to_date('1994-01-01','YYYY-MM-DD')),
partition lrossc25 values less than (to_date('1994-02-01','YYYY-MM-DD')),
partition lrossc26 values less than (to_date('1994-03-01','YYYY-MM-DD')),
partition lrossc27 values less than (to_date('1994-04-01','YYYY-MM-DD')),
partition lrossc28 values less than (to_date('1994-05-01','YYYY-MM-DD')),
partition lrossc29 values less than (to_date('1994-06-01','YYYY-MM-DD')),
partition lrossc30 values less than (to_date('1994-07-01','YYYY-MM-DD')),
partition lrossc31 values less than (to_date('1994-08-01','YYYY-MM-DD')),
```

```
partition lrossc32 values less than (to_date('1994-09-01','YYYY-MM-DD')),
partition lrossc33 values less than (to_date('1994-10-01','YYYY-MM-DD')),
partition lrossc34 values less than (to_date('1994-11-01','YYYY-MM-DD')),
partition lrossc35 values less than (to_date('1994-12-01','YYYY-MM-DD')),
partition lrossc36 values less than (to_date('1995-01-01','YYYY-MM-DD')),
partition lrossc37 values less than (to_date('1995-02-01','YYYY-MM-DD')),
partition lrossc38 values less than (to_date('1995-03-01','YYYY-MM-DD')),
partition lrossc39 values less than (to_date('1995-04-01','YYYY-MM-DD')),
partition lrossc40 values less than (to_date('1995-05-01','YYYY-MM-DD')),
partition lrossc41 values less than (to_date('1995-06-01','YYYY-MM-DD')),
partition lrossc42 values less than (to_date('1995-07-01','YYYY-MM-DD')),
partition lrossc43 values less than (to_date('1995-08-01','YYYY-MM-DD')),
partition lrossc44 values less than (to_date('1995-09-01','YYYY-MM-DD')),
partition lrossc45 values less than (to_date('1995-10-01','YYYY-MM-DD')),
partition lrossc46 values less than (to_date('1995-11-01','YYYY-MM-DD')),
partition lrossc47 values less than (to_date('1995-12-01','YYYY-MM-DD')),
partition lrossc48 values less than (to_date('1996-01-01','YYYY-MM-DD')),
partition lrossc49 values less than (to_date('1996-02-01','YYYY-MM-DD')),
partition lrossc50 values less than (to_date('1996-03-01','YYYY-MM-DD')),
partition lrossc51 values less than (to_date('1996-04-01','YYYY-MM-DD')),
partition lrossc52 values less than (to_date('1996-05-01','YYYY-MM-DD')),
partition lrossc53 values less than (to_date('1996-06-01','YYYY-MM-DD')),
partition lrossc54 values less than (to_date('1996-07-01','YYYY-MM-DD')),
partition lrossc55 values less than (to_date('1996-08-01','YYYY-MM-DD')),
partition lrossc56 values less than (to_date('1996-09-01','YYYY-MM-DD')),
partition lrossc57 values less than (to_date('1996-10-01','YYYY-MM-DD')),
partition lrossc58 values less than (to_date('1996-11-01','YYYY-MM-DD')),
partition lrossc59 values less than (to_date('1996-12-01','YYYY-MM-DD')),
partition lrossc60 values less than (to_date('1997-01-01','YYYY-MM-DD')),
partition lrossc61 values less than (to_date('1997-02-01','YYYY-MM-DD')),
partition lrossc62 values less than (to_date('1997-03-01','YYYY-MM-DD')),
partition lrossc63 values less than (to_date('1997-04-01','YYYY-MM-DD')),
partition lrossc64 values less than (to_date('1997-05-01','YYYY-MM-DD')),
partition lrossc65 values less than (to_date('1997-06-01','YYYY-MM-DD')),
partition lrossc66 values less than (to_date('1997-07-01','YYYY-MM-DD')),
partition lrossc67 values less than (to_date('1997-08-01','YYYY-MM-DD')),
partition lrossc68 values less than (to_date('1997-09-01','YYYY-MM-DD')),
partition lrossc69 values less than (to_date('1997-10-01','YYYY-MM-DD')),
partition lrossc70 values less than (to_date('1997-11-01','YYYY-MM-DD')),
partition lrossc71 values less than (to_date('1997-12-01','YYYY-MM-DD')),
partition lrossc72 values less than (to_date('1998-01-01','YYYY-MM-DD')),
partition lrossc73 values less than (to_date('1998-02-01','YYYY-MM-DD')),
partition lrossc74 values less than (to_date('1998-03-01','YYYY-MM-DD')),
partition lrossc75 values less than (to_date('1998-04-01','YYYY-MM-DD')),
partition lrossc76 values less than (to_date('1998-05-01','YYYY-MM-DD')),
partition lrossc77 values less than (to_date('1998-06-01','YYYY-MM-DD')),
partition lrossc78 values less than (to_date('1998-07-01','YYYY-MM-DD')),
partition lrossc79 values less than (to_date('1998-08-01','YYYY-MM-DD')),
partition lrossc80 values less than (MAXVALUE))
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index l_rossc
*time=Begin creating index o_op
*sql
{
connect tpcd/tpcd;
drop index o_op;
create unique index o_op
on orders (o_orderkey,o_orderpriority)
pctfree 2
initrans 10
tablespace ts_ind3
storage (initial 5m next 5m freelists 16 freelist groups 5 maxextents
unlimited pctincrease 0)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index o_op
*time=Begin creating index p_sptm
*sql
{
connect tpcd/tpcd;
drop index p_sptm;
create unique index p_sptm
on parts (p_size,p_partkey,p_type,p_mfgr)
pctfree 1
tablespace ts_ind5
storage (initial 1m next 1m maxextents unlimited pctincrease 0)
local (
partition psptm1,
partition psptm2,
partition psptm3,
partition psptm4,
partition psptm5,
partition psptm6,
partition psptm7,
partition psptm8,
partition psptm9,
partition psptm10,
partition psptm11,
partition psptm12,
partition psptm13,
partition psptm14,
partition psptm15,
partition psptm16,
partition psptm17,
partition psptm18,
partition psptm19,
partition psptm20,
partition psptm21,
partition psptm22,
partition psptm23,
partition psptm24,
partition psptm25,
partition psptm26,
partition psptm27,
partition psptm28,
partition psptm29,
partition psptm30,
partition psptm31,
partition psptm32,
partition psptm33,
partition psptm34,
partition psptm35,
partition psptm36,
partition psptm37,
partition psptm38,
partition psptm39,
partition psptm40,
partition psptm41,
partition psptm42,
partition psptm43,
partition psptm44,
partition psptm45,
partition psptm46,
partition psptm47,
partition psptm48,
partition psptm49,
partition psptm50
)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index p_sptm
*time=Begin creating index s_skey
*sql
{
connect tpcd/tpcd;
drop index s_skey;
create unique index s_skey
on supplier (s_suppkey)
pctfree 2
tablespace ts_ind4
storage (initial 1m next 1m maxextents unlimited pctincrease 0)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index s_skey
*time=Begin creating index s_sn
*sql
{
connect tpcd/tpcd;
drop index s_sn;
create unique index s_sn
on supplier (s_suppkey,s_nationkey)
pctfree 2
tablespace ts_ind4
storage (initial 1m next 1m maxextents unlimited pctincrease 0)
parallel (degree 60 instances 1)
;
}
*wait
*time=Done creating index s_sn
*time=Begin creating constraint pkpsup
*sql
{
connect tpcd/tpcd;
alter table partsupp drop constraint pkpsup;
alter table partsupp add constraint pkpsup
primary key (ps_partkey,ps_suppkey) disable;
alter table partsupp enable novalidate primary key;
}
*wait
*time=Done creating constraint pkpsup
*wait
*time=Alter DOP of indexes
*sql
{
connect tpcd/tpcd;
alter index ps_pkskskc parallel (degree 20 instances 1);
alter index ps_spsa parallel (degree 1 instances 1);
}
*wait
*time=Done altering DOP of indexes
*time=Done index creation
*wait
*bgoff
%e-ixcre
```

100G_DG_ANLYZ.DAT

```
#########################################################################
##
# preprocessing-like directives

%b-preproc

*sql
\svrmgr30 <<!
\set echo on;
\set termout on;
\connect internal;
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\{}
\select to_char(sysdate, 'MM-DD-YYYY HH24:MI:SS') now from dual;
\exit;
\!

*load
\sqlldr80 {}

*mknod
\mknod {}

*dbgen
\dbgen {}

*sh
\{}

%e-preproc
%b-anlyz
*bgon=40
#########################################################################
#######
# Analyze Phase
*time=Begin anlyze
*time=Begin analyzing l_pqesod
*sql
{
connect tpcd/tpcd;
analyze index l_pqesod estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing l_pqesod
*time=Begin analyzing p_sptm
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm1) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm2) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm3) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm4) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm5) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm6) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm7) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm8) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm9) estimate statistics sample 10 percent;
```

```
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm10) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm11) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm12) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm13) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm14) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm15) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm16) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm17) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm18) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm19) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm20) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm21) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm22) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm23) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm24) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm25) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm26) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm27) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm28) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm29) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm30) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm31) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm32) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm33) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm34) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm35) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm36) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm37) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm38) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm39) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm40) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm41) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm42) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm43) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm44) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm45) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm46) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm47) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm48) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm49) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index p_sptm partition (psptm50) estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing p_sptm
*time=Begin analyzing l_rossc
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc1) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc2) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc3) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc4) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc5) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc6) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc7) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc8) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc9) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc10) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc11) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc12) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc13) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc14) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc15) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc16) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc17) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc18) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc19) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc20) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc21) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc22) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc23) estimate statistics sample 10 percent;
}
*sql
{
```

```
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc24) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc25) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc26) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc27) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc28) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc29) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc30) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc31) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc32) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc33) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc34) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc35) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc36) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc37) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc38) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc39) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc40) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc41) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc42) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc43) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc44) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc45) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc46) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc47) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc48) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc49) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc50) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc51) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc52) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc53) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc54) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc55) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc56) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc57) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc58) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc59) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc60) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc61) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc62) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc63) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc64) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc65) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc66) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc67) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc68) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc69) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc70) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc71) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc72) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc73) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc74) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc75) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc76) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc77) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc78) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc79) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index l_rossc partition (lrossc80) estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing l_rossc
*time=Begin analyzing l_ored
*sql
{
connect tpcd/tpcd;
analyze index l_ored estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing l_ored
*time=Begin analyzing s_sn
*sql
{
connect tpcd/tpcd;
analyze index s_sn estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing s_sn
*time=Begin analyzing s_skey
*sql
{
connect tpcd/tpcd;
analyze index s_skey estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing s_skey
*time=Begin analyzing o_op
*sql
{
connect tpcd/tpcd;
analyze index o_op estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing o_op
*time=Begin analyzing o_clokod
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod1) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
```

Appendix B

```
analyze index o_clokod partition (oclokod2) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod3) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod4) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod5) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod6) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod7) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod8) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod9) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod10) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod11) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod12) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod13) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod14) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod15) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod16) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod17) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod18) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod19) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod20) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod21) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod22) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod23) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod24) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod25) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod26) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod27) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod28) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod29) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod30) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod31) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod32) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod33) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod34) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod35) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod36) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod37) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod38) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod39) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod40) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod41) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod42) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod43) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod44) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod45) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod46) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod47) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod48) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod49) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod50) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod51) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod52) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod53) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod54) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod55) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod56) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod57) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod58) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod59) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod60) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod61) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod62) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod63) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod64) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod65) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod66) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod67) estimate statistics sample 10 percent;
```

```
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod68) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod69) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod70) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod71) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod72) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod73) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod74) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod75) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod76) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod77) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod78) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod79) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze index o_clokod partition (oclokod80) estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing o_clokod
*time=Begin analyzing lineitem
*sql
{
connect tpcd/tpcd;
analyze table lineitem partition (item1) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze table lineitem partition (item2) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze table lineitem partition (item3) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze table lineitem partition (item4) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze table lineitem partition (item5) estimate statistics sample 10 percent;
}
*sql
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connect tpcd/tpcd;
analyze table lineitem partition (item6) estimate statistics sample 10 percent;
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analyze table lineitem partition (item79) estimate statistics sample 10 percent;
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connect tpcd/tpcd;
analyze table lineitem partition (item80) estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing lineitem
*time=Begin analyzing orders
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connect tpcd/tpcd;
analyze table orders partition (ord1) estimate statistics sample 10 percent;
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analyze table orders partition (ord2) estimate statistics sample 10 percent;
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analyze table orders partition (ord36) estimate statistics sample 10 percent;
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analyze table orders partition (ord37) estimate statistics sample 10 percent;
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analyze table orders partition (ord79) estimate statistics sample 10 percent;
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*sql
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connect tpcd/tpcd;
analyze table orders partition (ord80) estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing orders
*time=Begin analyzing parts
*sql
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connect tpcd/tpcd;
analyze table parts partition (part1) estimate statistics sample 10 percent;
}
*sql
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connect tpcd/tpcd;
analyze table parts partition (part2) estimate statistics sample 10 percent;
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connect tpcd/tpcd;
analyze table parts partition (part3) estimate statistics sample 10 percent;
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analyze table parts partition (part4) estimate statistics sample 10 percent;
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analyze table parts partition (part5) estimate statistics sample 10 percent;
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analyze table parts partition (part6) estimate statistics sample 10 percent;
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analyze table parts partition (part7) estimate statistics sample 10 percent;
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connect tpcd/tpcd;
analyze table parts partition (part49) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze table parts partition (part50) estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing parts
*time=Begin analyzing customer
*sql
{
connect tpcd/tpcd;
analyze table customer partition (cust1) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze table customer partition (cust2) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze table customer partition (cust3) estimate statistics sample 10 percent;
}
*sql
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connect tpcd/tpcd;
analyze table customer partition (cust4) estimate statistics sample 10 percent;
}
*sql
{
connect tpcd/tpcd;
analyze table customer partition (cust5) estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing customer
*time=Begin analyzing supplier
*sql
{
connect tpcd/tpcd;
analyze table supplier estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing supplier
*time=Begin analyzing nation
*sql
{
connect tpcd/tpcd;
analyze table nation estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing nation
*time=Begin analyzing region
*sql
{
connect tpcd/tpcd;
analyze table region estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing region
*time=Begin analyzing ps_spsa
*sql
{
connect tpcd/tpcd;
analyze index ps_spsa estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing ps_spsa
*time=Begin analyzing ps_pksksc
*sql
{
connect tpcd/tpcd;
analyze index ps_pksksc estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing ps_pksksc
*time=Begin analyzing ps_pksk
*sql
{
connect tpcd/tpcd;
analyze index ps_pksk estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing ps_pksk
*time=Begin analyzing partsupp
*sql
{
connect tpcd/tpcd;
analyze table partsupp estimate statistics sample 10 percent;
}
*wait
*time=Done analyzing partsupp
*time=End anlyze
*wait
*time=Begin alter storage parameters
*sql
{
connect tpcd/tpcd;
alter table lineitem storage (next 5m pctincrease 0);
alter table orders storage (next 2m pctincrease 0);
alter index l_ored storage (next 2m);
alter index o_clokod storage (next 2m);
alter index l_pqesod storage (next 2m);
alter index l_rossc storage (next 2m);
alter index o_op storage (next 2m);
alter table lineitem modify partition item1 storage (next 5m
maxextents unlimited) nologging;
alter table lineitem modify partition item2 storage (next 5m
maxextents unlimited) nologging;
alter table lineitem modify partition item3 storage (next 5m maxextents
unlimited) nologging;
alter table lineitem modify partition item4 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item5 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item6 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item7 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item8 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item9 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item10 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item11 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item12 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item13 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item14 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item15 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item16 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item17 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item18 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item19 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item20 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item21 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item22 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item23 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item24 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item25 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item26 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item27 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item28 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item29 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item30 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item31 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item32 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item33 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item34 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item35 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item36 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item37 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item38 storage (next 5m maxextents unlimited)
nologging;
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alter table lineitem modify partition item39 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item40 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item41 storage (next 5m maxextents unlimited)
nologging;
alter table lineitem modify partition item42 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item43 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item44 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item45 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item46 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item47 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item48 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item49 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item50 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item51 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item52 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item54 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item56 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item57 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item58 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item59 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item60 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item61 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item62 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item63 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item64 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item65 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item66 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item67 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item68 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item69 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item70 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item71 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item72 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item73 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item74 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item75 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item76 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item77 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item78 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item79 storage (next 5m maxextents unlimited)
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alter table lineitem modify partition item80 storage (next 5m maxextents unlimited)
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alter table orders modify partition ord1 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord2 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord3 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord4 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord5 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord6 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord7 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord8 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord9 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord10 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord11 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord12 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord13 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord15 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord16 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord26 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord30 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord31 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord32 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord33 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord34 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord35 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord36 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord37 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord38 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord40 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord41 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord42 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord43 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord44 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord45 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord46 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord47 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord48 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord49 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord50 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord51 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord52 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord59 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord60 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord61 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord62 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord63 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord64 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord65 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord66 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord67 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord68 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord69 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord70 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord71 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord72 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord73 storage (next 2m maxextents unlimited)
nologging;
alter table orders modify partition ord74 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord75 storage (next 2m maxextents unlimited)
nologging;
alter table orders modify partition ord76 storage (next 2m maxextents unlimited)
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alter table orders modify partition ord77 storage (next 2m maxextents unlimited)
nologging;
alter table orders modify partition ord78 storage (next 2m maxextents unlimited)
nologging;
alter table orders modify partition ord79 storage (next 2m maxextents unlimited)
nologging;
alter table orders modify partition ord80 storage (next 2m maxextents unlimited)
nologging;
alter index o_clokod modify partition oclokod1 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod2 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod3 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod4 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod5 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod6 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod7 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod8 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod9 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod10 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod11 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod12 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod13 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod14 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod15 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod16 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod17 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod18 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod19 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod20 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod21 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod22 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod23 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod24 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod25 storage (next 1m maxextents unlimited);
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alter index o_clokod modify partition oclokod27 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod28 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod29 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod30 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod31 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod32 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod33 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod34 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod35 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod36 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod37 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod38 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod39 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod40 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod41 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod42 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod43 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod44 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod45 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod46 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod47 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod48 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod49 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod50 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod51 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod52 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod53 storage (next 1m maxextents unlimited);
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alter index o_clokod modify partition oclokod55 storage (next 1m maxextents unlimited);
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alter index o_clokod modify partition oclokod62 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod63 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod64 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod65 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod66 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod67 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod68 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod69 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod70 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod71 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod72 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod73 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod74 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod75 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod76 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod77 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod78 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod79 storage (next 1m maxextents unlimited);
alter index o_clokod modify partition oclokod80 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc1 storage (next 1m maxextents unlimited);
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alter index l_rossc modify partition lrossc2 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc3 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc4 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc5 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc6 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc7 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc8 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc9 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc10 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc11 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc12 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc13 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc14 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc15 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc16 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc17 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc18 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc19 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc20 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc21 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc22 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc23 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc24 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc25 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc26 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc27 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc28 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc29 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc30 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc31 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc32 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc33 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc34 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc35 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc36 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc37 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc38 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc39 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc40 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc41 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc42 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc43 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc44 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc45 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc46 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc47 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc48 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc49 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc50 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc51 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc52 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc53 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc54 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc55 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc56 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc57 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc58 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc59 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc60 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc61 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc62 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc63 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc64 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc65 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc66 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc67 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc68 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc69 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc70 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc71 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc72 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc73 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc74 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc75 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc76 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc77 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc78 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc79 storage (next 1m maxextents unlimited);
alter index l_rossc modify partition lrossc80 storage (next 1m
maxextents unlimited);
connect internal;
alter rollback segment t_rs1 offline;
drop rollback segment t_rs1;
alter system switch logfile;
alter system switch logfile;
}
*wait
*wait
*bgoff
%e-anlyz
```

CUSTOMER.CTL

```
---
options
(
storage = (initial 40m next 40m)
)
unrecoverable
load
-- This is where INFILE should go.
into table customer
partition (CUST2)
-- This is where PARTITION is specified.
append
fields terminated by '|'
(
  c_custkey             ,
  c_mktsegment          ,
  c_nationkey           ,
  c_name                ,
  c_address             ,
  c_phone               ,
  c_acctbal             ,
  c_comment
)
```

LINEITEM.CTL

```
---
options
(
storage = (initial 460m next 460m)
)
unrecoverable
load
-- This is where INFILE should go.
into table lineitem
partition (ITEM2)
-- This is where PARTITION is specified.
append
fields terminated by '|'
(
  l_shipdate            date "yyyy-mm-dd",
  l_orderkey            ,
  l_discount            ,
  l_extendedprice       ,
  l_suppkey             ,
  l_quantity            ,
  l_returnflag          ,
  l_partkey             ,
  l_linestatus          ,
  l_tax                 ,
  l_commitdate          date "yyyy-mm-dd",
  l_receiptdate         date "yyyy-mm-dd",
  l_shipmode            ,
  l_linenumber          ,
  l_shipinstruct        ,
  l_comment
)
```

NATION.CTL

```
---
---  nation.ctl for delimited records
---

options
(
storage = (initial 64k next 64k)
)
unrecoverable
load
into table nation
append
fields terminated by '|'
(
  n_nationkey           ,
  n_name                ,
  n_regionkey           ,
  n_comment
)
```

ORDERS.CTL

```
---
options
(
storage = (initial 112m next 112m)
)
unrecoverable
load
-- This is where INFILE should go.
into table orders
partition (ORD1)
-- This is where PARTITION is specified.
append
fields terminated by '|'
(
  o_orderdate           date "yyyy-mm-dd",
  o_orderkey            ,
  o_custkey             ,
  o_orderpriority       ,
  o_shippriority        ,
  o_clerk               ,
  o_orderstatus         ,
  o_totalprice          ,
  o_comment
)

---
options
(
storage = (initial 112m next 112m)
)
unrecoverable
load
-- This is where INFILE should go.
into table orders
partition (ORD2)
-- This is where PARTITION is specified.
append
fields terminated by '|'
(
  o_orderdate           date "yyyy-mm-dd",
  o_orderkey            ,
  o_custkey             ,
  o_orderpriority       ,
  o_shippriority        ,
  o_clerk               ,
  o_orderstatus         ,
  o_totalprice          ,
  o_comment
)

3 ... 79

---
options
(
storage = (initial 112m next 112m)
)
unrecoverable
load
-- This is where INFILE should go.
into table orders
partition (ORD80)
-- This is where PARTITION is specified.
append
fields terminated by '|'
(
  o_orderdate           date "yyyy-mm-dd",
  o_orderkey            ,
  o_custkey             ,
  o_orderpriority       ,
  o_shippriority        ,
  o_clerk               ,
  o_orderstatus         ,
  o_totalprice          ,
  o_comment
)
```

PARTS.CTL

```
---
options
(
storage = (initial 2m next 2m)
)
unrecoverable
load
-- This is where INFILE should go.
into table parts
partition (PART1)
-- This is where PARTITION is specified.
```

```
append
fields terminated by '|'
(
  p_partkey             ,
  p_type                ,
  p_size                ,
  p_brand               ,
  p_name                ,
  p_container           ,
  p_mfgr                ,
  p_retailprice         ,
  p_comment
)

---
options
(
storage = (initial 2m next 2m)
)
unrecoverable
load
-- This is where INFILE should go.
into table parts
partition (PART2)
-- This is where PARTITION is specified.
append
fields terminated by '|'
(
  p_partkey             ,
  p_type                ,
  p_size                ,
  p_brand               ,
  p_name                ,
  p_container           ,
  p_mfgr                ,
  p_retailprice         ,
  p_comment
)

3 ... 99
---
options
(
storage = (initial 2m next 2m)
)
unrecoverable
load
-- This is where INFILE should go.
into table parts
partition (PART50)
-- This is where PARTITION is specified.
append
fields terminated by '|'
(
  p_partkey             ,
  p_type                ,
  p_size                ,
  p_brand               ,
  p_name                ,
  p_container           ,
  p_mfgr                ,
  p_retailprice         ,
  p_comment
)
```

PARTSUPP.CTL

```
---
---  partsupp.ctl for delimited records
---

options
(
storage = (initial 83m next 83m)
)
unrecoverable
load
into table partsupp
append
fields terminated by '|'
(
  ps_partkey            ,
  ps_suppkey            ,
  ps_supplycost         ,
  ps_availqty           ,
  ps_comment
)
```

REGION.CTL

```
---
---  region.ctl for delimited records
---

options
(
storage = (initial 64k next 64k)
)
unrecoverable
load
into table region
append
fields terminated by '|'
(
  r_regionkey           ,
  r_name                ,
  r_comment
)
```

SUPPLIER.CTL

```
---
---  supplier.ctl for delimited records
---

options
(
storage = (initial 10m next 10m)
)
unrecoverable
load
into table supplier
append
fields terminated by '|'
(
  s_suppkey             ,
  s_nationkey           ,
  s_comment             ,
  s_name                ,
  s_address             ,
  s_phone               ,
  s_acctbal
)
```

Appendix C: Query Text and Query Output

```
-- Query 1 (Original)  Q1

SELECT L_RETURNFLAG,
L_LINESTATUS,
SUM(L_QUANTITY) AS SUM_QTY,
SUM(L_EXTENDEDPRICE) AS SUM_BASE_PRICE,
SUM(L_EXTENDEDPRICE * (1 - L_DISCOUNT)) AS
SUM_DISC_PRICE,
SUM(L_EXTENDEDPRICE * (1 - L_DISCOUNT) * (1
+ L_TAX)) AS SUM_CHARGE,
AVG(L_QUANTITY) AS AVG_QTY,
AVG(L_EXTENDEDPRICE) AS AVG_PRICE,
AVG(L_DISCOUNT) AS AVG_DISC,
COUNT(*) AS COUNT_ORDER
FROM LINEITEM
WHERE L_SHIPDATE <= TO_DATE('1998-12-
01','YYYY-MM-DD') - 86
GROUP BY L_RETURNFLAG, L_LINESTATUS
ORDER BY L_RETURNFLAG, L_LINESTATUS

L_RETURNFLAG L_LINESTATUS SUM_QTY
SUM_BASE_PRICE   SUM_DISC_PRICE
SUM_CHARGE       AVG_QTY          AVG_PRICE
AVG_DISC         COUNT_ORDER
A            F            3779444456.00
5667241537767.56 5383869735321.49
5599230751499.22 25.50            38237.70
0.05             148210840.00
N            F            98685681.00
147989627721.00  140585223091.30
146210064832.84  25.50            38244.11
0.05             3869606.00
N            O            7462395999.00
11189890693167.18 10630397840056.28
11055624575500.17 25.50             38238.27
0.05             292635902.00
R            F            3779061567.00
5666619103069.79 5383304295411.96
5598630538175.75 25.50            38235.27
0.05             148203986.00


4 rows processed.
Statement Processed in 4977.75 seconds.

-- Query 4 (Variant B) Q4     B

SELECT
O_ORDERPRIORITY,
COUNT(*) AS ORDER_COUNT
FROM ORDERS
WHERE O_ORDERKEY IN (
SELECT DISTINCT O_ORDERKEY
FROM LINEITEM, ORDERS
WHERE L_ORDERKEY = O_ORDERKEY
AND O_ORDERDATE >= TO_DATE('1995-02-
01','YYYY-MM-DD')
AND O_ORDERDATE < ADD_MONTHS(TO_DATE('1995-
02-01','YYYY-MM-DD'),3)
AND L_COMMITDATE < L_RECEIPTDATE)
GROUP BY O_ORDERPRIORITY
ORDER BY O_ORDERPRIORITY

O_ORDERPRIORITY ORDER_COUNT
1-URGENT        1017809.00
2-HIGH          1020535.00
3-MEDIUM        1018442.00
4-NOT SPECIFIED 1018575.00
5-LOW           1019620.00


5 rows processed.

-- Query 15 (Variant B)       Q15     B


CREATE TABLE REVENUE0 (SUPPLIER_NO INTEGER,
TOTAL_REVENUE NUMBER(20, 2))
tablespace TS_S
pctfree 0
pctused 99
storage (initial 5m next 5m pctincrease 0)

INSERT INTO REVENUE0
SELECT  L_SUPPKEY, SUM(L_EXTENDEDPRICE*(1-
L_DISCOUNT))
FROM  LINEITEM
WHERE L_SHIPDATE >= TO_DATE('1995-02-
01','YYYY-MM-DD')
AND L_SHIPDATE <  ADD_MONTHS(TO_DATE('1995-
02-01','YYYY-MM-DD'),3)
GROUP BY L_SUPPKEY

SELECT S_SUPPKEY, S_NAME, S_ADDRESS,
S_PHONE, TOTAL_REVENUE
FROM  SUPPLIER, REVENUE0
WHERE S_SUPPKEY = SUPPLIER_NO
AND TOTAL_REVENUE = (SELECT
MAX(TOTAL_REVENUE) FROM REVENUE0)
ORDER BY S_SUPPKEY

S_SUPPKEY        S_NAME
S_ADDRESS
S_PHONE         TOTAL_REVENUE
62932.00         Supplier#000062932
Ol6OhML21xB jPg404L4kmLL                  19-
882-650-3419 2415387.29


1 row processed.

DROP TABLE REVENUE0
Setting the number of rows to fetch to: 20


-- Query 10 (Original) Q10


SELECT
C_CUSTKEY,
C_NAME,
SUM(L_EXTENDEDPRICE * (1-L_DISCOUNT)) AS
REVENUE,
C_ACCTBAL,
N_NAME,
C_ADDRESS,
C_PHONE,
C_COMMENT
FROM CUSTOMER, ORDERS, LINEITEM, NATION
WHERE C_CUSTKEY = O_CUSTKEY
AND L_ORDERKEY = O_ORDERKEY
AND O_ORDERDATE >= TO_DATE( '1993-12-01'
,'YYYY-MM-DD')
AND O_ORDERDATE < ADD_MONTHS(TO_DATE( '1993-
12-01' ,'YYYY-MM-DD'), 3)
AND L_RETURNFLAG = 'R'
AND C_NATIONKEY = N_NATIONKEY
GROUP BY C_CUSTKEY, C_NAME, C_ACCTBAL,
C_PHONE, N_NAME, C_ADDRESS, C_COMMENT
ORDER BY REVENUE DESC

C_CUSTKEY        C_NAME
REVENUE          C_ACCTBAL
N_NAME                    C_ADDRESS
C_PHONE
C_COMMENT
12567388.00      Customer#012567388
974656.39        8448.78
```

```
INDIA                     lCzhCnh
nzQMn4gRNkO m322                18-238-696-
7451
g7NiLOi5m1NjPlk4jmkAQQP4L3xj5k2h2QlySzm73mSQ
y2Cm65QROk71hlA5LnM1wl5OAm71BAC
8897564.00        Customer#008897564
884337.26         7453.06
ALGERIA
jRg3lCnxQOLygCCnM12 w                    10-
781-743-5269
LOO1w26gMO3RiiOll2P1l3wMO6R7g74ySkgxjxLL6AR7
33A625nSyNC3BANOgj6kjCj5Owh2OzNAh75zP6hiwSB3
z5RQ3QRh2xLihP21
6725432.00        Customer#006725432
861454.67         9780.31
UNITED KINGDOM            OS71x7NOzO23
OLmwLP5m2M6iO6R             33-487-484-6205
Bi3
lS6kN73kCnBggmBLASiSjLCgMRCg4ijAmhQiLz2RPnQ5
LPxgQ31ORi4zxLA6mCQMOQ7NORl2Oglxj5k77gh Ln
5610056.00        Customer#005610056
860575.78         8506.50
KENYA                     6B7iNMnOQ1m5kNL 2Q
NPLzhRj               24-263-725-9874
BLAw4P5Lj2wxC7nLj3hynNPOzkPjzOy3
7060918.00        Customer#007060918
856815.64         1436.46
UNITED STATES
kBSl62gh1Cy7x64QOM34MhOBP21nkBOSOQ2      34-
120-393-8506
zz 4LngLjOjNORL355m6Oi5ggw57ggOmS2gSMPxB
ROwllN2mzOOwmy227S
2549213.00        Customer#002549213
855577.74         741.59
CANADA                    OOwjCj7zyygn6O
13-945-194-9872
 i2hR7ggwwNn1i4N2xm5QLn x7Qkk3yMi37OAy
SOn3Qkkw35LxQAMgxkPC7lC6i2B5LOLzCMBPyNmAjCzB
Ln316lhy4ikjmmLR
12857572.00       Customer#012857572
844811.00         -571.13
INDIA
Ax6BL5hPOiLzCnRN6iR                      18-
175-215-2827
j64jA3zkCSLkyiglkw124wABhxjQB1gS26j5wgigixAg
LOnlix5OxLzy OnC5njll7n6OQn7
10058912.00       Customer#010058912
825007.68         1303.77
RUSSIA                    4CBQ73lgjz61Cl2xl4
32-675-100-7410
wmClAMzSx4Pj2m7QllLgnQ3xlihR3zMn4mwOLk3
Ow6iiMiPll
1403759.00        Customer#001403759
818215.44         4510.10
IRAN
O5zMmkz5w6BLLRxA5wRwMP2NxQBwkiy7MRP      20-
825-378-5608
lPzPOMMRm3 O 3kyOCAO1P1QNRhhkh6h6jL
zw7OMS54lCRkiimz2OSRl7jMARBhw1OmnQ33AgmM
wMjzQlxBL
8921275.00        Customer#008921275
817259.07         -399.99
PERU                      4xkQBPAAjlxzg2
OB2nzg                    27-890-784-4314
3gQlzS563CLO5A2O4nP 1Nx4j OkORwgQ
2mShS6CNL54iy6xN1Oyww Ogwg51Q
5123nSOgPhmQy4AMQO0ynigx2
13614604.00       Customer#013614604
816130.68         3013.96
RUSSIA                    OM5i5k411O
5jS713mAS3k5iA2mOx  g         32-539-305-
2013
4mB6nQA30RNMLzxB zPnCk2S3P7RgLh213MQkiN
11553353.00       Customer#011553353
809286.32         9949.88
UNITED KINGDOM            k
h705NSz4ylR21h743j6iMNnRjNMzhOAzk      33-
225-301-4142
ziyinPRO4NhN7jlxzOygjSOxjl3Lx2xRAR2O3jk z516
5x3ww7L71gNgn7  1 3zO3x2Q4 OxQRO3
OBkC3Cnx6LOR2wLhjk1C42w
6369166.00        Customer#006369166
807950.33         -104.56
SAUDI ARABIA              nSzA3l2ji2kkimOkS
30-673-771-1191
SCyRiBxznBlNnjPgN x
4lh6lQN5BNw61MkQwlgxNMRiOzPyOLA1hL7Q
8713679.00        Customer#008713679
805449.32         2503.02
IRAQ
lwO6Qg1k7N1xxLSO26NnCOP5k3AQQC 5          21-
2O2-977-9481
RzAhzPOk3Q4LQjiR4nQA654wg53z4AOgOBBy1A
Cn2lSRRPMmPk1xn2wxRwA2BA3C2BPNSy6CRg7
17y5i65g25xlzO76nOzjk5xkl5LOlmn
984320.00         Customer#000984320
804324.58         4844.65
IRAN                      yz1
2gP51zk7P31j6R3RCjk152Bk1OzM4Sk6Rik  20-217-
654-6796
yOOhwNxPn mmwPgSnOOi jhi xnO
72hMQQQO6lOz6i3R4Q OA MQy nx2gMk6

20 rows processed.


-- Query 11 (Variant A)       Q11     A



CREATE TABLE PART_VALUEO
(PARTNO NUMBER, VALUE NUMBER(20, 2) )
tablespace TS_S
pctfree 0
pctused 99
storage (initial 5m next 5m pctincrease 0)


INSERT INTO PART_VALUEO
SELECT
PS_PARTKEY, SUM(PS_SUPPLYCOST*PS_AVAILQTY)
FROM PARTSUPP, SUPPLIER, NATION
WHERE PS_SUPPKEY = S_SUPPKEY
AND S_NATIONKEY = N_NATIONKEY
AND N_NAME = 'IRAN'
GROUP BY PS_PARTKEY

CREATE TABLE SUM_PART_VALUEO
(TOTAL_VALUE NUMBER(20, 2))
tablespace TS_S
pctfree 0
pctused 99
storage (initial 5m next 5m pctincrease 0)


INSERT INTO SUM_PART_VALUEO
SELECT
SUM(PS_SUPPLYCOST*PS_AVAILQTY) *
0.0000010000
FROM PARTSUPP, SUPPLIER, NATION
WHERE PS_SUPPKEY = S_SUPPKEY
AND S_NATIONKEY = N_NATIONKEY
AND N_NAME = 'IRAN'

SELECT
PARTNO, VALUE
FROM PART_VALUEO
WHERE VALUE >
(SELECT SUM(TOTAL_VALUE) FROM
SUM_PART_VALUEO)
ORDER BY VALUE DESC

PARTNO           VALUE
4140994.00       26595794.80
11920877.00      23123216.10
8559734.00       21920759.58
19252399.00      21093285.43
6070561.00       21068807.28
```

```
19932203.00       20946797.32
16018003.00       20757391.94
10479169.00       20730777.28
18118493.00       20681188.81
15027179.00       20648624.34

94553 rows processed.

DROP TABLE PART_VALUE0

DROP TABLE SUM_PART_VALUE0

-- Query 6 (Original)  Q6

SELECT
SUM(L_EXTENDEDPRICE * L_DISCOUNT) AS REVENUE
FROM LINEITEM
WHERE L_SHIPDATE >= TO_DATE('1995-01-
01','YYYY-MM-DD')
AND L_SHIPDATE < ADD_MONTHS(TO_DATE('1995-
01-01','YYYY-MM-DD'),12)
AND L_DISCOUNT BETWEEN 0.06 - 0.01 AND 0.06
+ 0.01
AND L_QUANTITY < 25

REVENUE
13412131094.15


1 row processed.
Setting the number of rows to fetch to: 100

-- Query 2 (Variant A) Q2      A


SELECT
S_ACCTBAL,
S_NAME,
N_NAME,
P_PARTKEY,
P_MFGR,
S_ADDRESS,
S_PHONE,
S_COMMENT
FROM PARTS, SUPPLIER, PARTSUPP, NATION,
REGION
WHERE P_PARTKEY = PS_PARTKEY
AND S_SUPPKEY = PS_SUPPKEY
AND P_SIZE = 22
AND P_TYPE LIKE '%NICKEL'
AND S_NATIONKEY = N_NATIONKEY
AND N_REGIONKEY = R_REGIONKEY
AND R_NAME = 'MIDDLE EAST'
AND (P_PARTKEY ,PS_SUPPLYCOST) IN
(SELECT PS_PARTKEY, MIN(PS_SUPPLYCOST)
FROM PARTSUPP, SUPPLIER, NATION, REGION
WHERE S_SUPPKEY = PS_SUPPKEY
AND S_NATIONKEY = N_NATIONKEY
AND N_REGIONKEY = R_REGIONKEY
AND R_NAME = 'MIDDLE EAST'
GROUP BY PS_PARTKEY)
ORDER BY S_ACCTBAL DESC, N_NAME, S_NAME,
P_PARTKEY

S_ACCTBAL         S_NAME
N_NAME
P_PARTKEY         P_MFGR
S_ADDRESS
S_PHONE
S_COMMENT
9999.58           Supplier#000081596
JORDAN
11331562.00       Manufacturer#3
ljhx60NwRSR2LwiQi R nhxmRO4POj 2311      23-
802-625-7039
lMgyOAMj3mNl
jgOgw2kLwA7m6Pi13000l1B4nOx5j5A7i4nwPyOhnPjS
h550z S
9999.18           Supplier#000697011
IRAQ
3447007.00        Manufacturer#3
jgM3il7ykkSiM21ML5nRmLQS                 21-
961-197-9510
PLk5RMgPwlgyRP1kAgiS1iP0knSzxiAlPhzwhjlQjl56
O6j63O5 314iyy
9998.95           Supplier#000148225
IRAN
10898214.00       Manufacturer#1
5Si4Sz L5RzkB67i7kBzi2R4zmO              20-
782-280-8482
zngNmMwkwn2j6zlQn 2PB3z2 Pz P5AC26m
khCAPL6Bwik10
9998.55           Supplier#000498783
EGYPT
6748764.00        Manufacturer#2
5AS1h3MByB1ChN1SSizihMwMyxLm1            14-
434-458-3525
52423OzimwPQQjylR5gQAgh124B3PO6zzMS5xy4gBQ7A
g3yn3mMAON6jBMLzP257SmOOj5Alj
9998.55           Supplier#000498783
EGYPT
12748746.00       Manufacturer#1
5AS1h3MByB1ChN1SSizihMwMyxLm1            14-
434-458-3525
52423OzimwPQQjylR5gQAgh124B3PO6zzMS5xy4gBQ7A
g3yn3mMAON6jBMLzP257SmOOj5Alj
9998.41           Supplier#000110680
JORDAN
12610655.00       Manufacturer#1
CQ3x4 4gCNROg67A5lwQiyzBi6ORQS2kQ5R2Q    23-
556-119-9861
1AyO10SiNmLh1 2Azg3Bjx
ANnB4iwNlC6nPzBQRR6MMz lw LSy1Rz1g
9998.40           Supplier#000380860
JORDAN
8130851.00        Manufacturer#2
x1P3RhQMSLlhLgQkhS CLM                   23-
814-345-7369
B44NRQOg3l1LBiQ16RmmLni4yh6OxxBgiNNO4
hO700hRjn7A3l
O2Qzy7MLNyzOknmB3P63g1Rj57RNRyy3BOnSNM7NyzkhAnhg
9998.29           Supplier#000525187
IRAN
5775171.00        Manufacturer#2
6yjMQN5hxnR247h5gL73i4M                  20-
293-265-8784
zkP4R7nPwwgwRm2ig3Ln7RNSOBgxni721kSCCBPxSx32
NL2R2j1POOwA BO k1PzM 7jC462gz5wyxw m3RlCQj
9998.14           Supplier#000963957
IRAN
4713952.00        Manufacturer#5
5C35i6P1Cywn6N4 wkj6SCxz                 20-
755-335-4707
QQ R5gPQi5CAyCCC l5MihkQl1QiShySkBL0nzNwR0
zOzgNOg4PR3PkOkO6LyA6 ASwi3nBnAnNnh5 M6BQ
1zi
9998.05           Supplier#000545616
EGYPT
7545615.00        Manufacturer#3
 RzC4yR3A1lzgCgh                         14-
510-874-4706
gPlgzC4ny5wRM5g6zlBlynQNnN43zP77hllCk114A2Ry
wkSzOS51Q BM3iPNA2w0xO 7 wS4P63z

100 rows processed.

-- Query 16 (Original) Q16

SELECT
P_BRAND,
P_TYPE,
P_SIZE,
COUNT(DISTINCT PS_SUPPKEY) AS SUPPLIER_CNT
FROM PARTSUPP,PARTS
WHERE P_PARTKEY = PS_PARTKEY
AND P_BRAND <> 'Brand#33'
AND P_TYPE NOT LIKE 'PROMO ANODIZED%'
AND P_SIZE IN (37, 50 ,40 ,36 ,48, 10, 8,
43)
```

```
AND PS_SUPPKEY NOT IN (SELECT S_SUPPKEY
FROM SUPPLIER
WHERE S_COMMENT LIKE '%Better Business
Bureau%Complaints%')
GROUP BY P_BRAND, P_TYPE, P_SIZE
ORDER BY SUPPLIER_CNT DESC, P_BRAND, P_TYPE,
P_SIZE

P_BRAND    P_TYPE                      P_SIZE
SUPPLIER_CNT
Brand#11   ECONOMY PLATED STEEL        37.00
600.00
Brand#44   SMALL POLISHED NICKEL       48.00
584.00
Brand#54   LARGE BURNISHED STEEL       36.00
583.00
Brand#11   PROMO BURNISHED STEEL       8.00
580.00
Brand#15   ECONOMY ANODIZED NICKEL     48.00
580.00
Brand#21   PROMO POLISHED TIN          36.00
579.00
Brand#32   STANDARD BURNISHED STEEL    36.00
576.00
Brand#55   LARGE BURNISHED STEEL       10.00
576.00
Brand#25   ECONOMY POLISHED BRASS      36.00
574.00
Brand#15   SMALL ANODIZED STEEL        36.00
572.00

27840 rows processed.

-- Query 14 (Variant C)       Q14     C

CREATE TABLE ALL_SALES0 (TYPE VARCHAR2(25),
AMOUNT NUMBER(20, 2))
tablespace TS_S
pctfree 0
pctused 99
storage (initial 5m next 5m pctincrease 0)


CREATE TABLE SUM_PROMO_SALES0 (PROMO_AMOUNT
NUMBER(20, 2))
tablespace TS_S
pctfree 0
pctused 99
storage (initial 5m next 5m pctincrease 0)

CREATE TABLE SUM_ALL_SALES0 (ALL_AMOUNT
NUMBER(20, 2))
tablespace TS_S
pctfree 0
pctused 99
storage (initial 5m next 5m pctincrease 0)

INSERT INTO ALL_SALES0
SELECT P_TYPE, SUM(L_EXTENDEDPRICE *(1-
L_DISCOUNT))
FROM  LINEITEM, PARTS
WHERE L_PARTKEY = P_PARTKEY
AND L_SHIPDATE >= TO_DATE('1995-03-
01','YYYY-MM-DD')
AND L_SHIPDATE < ADD_MONTHS(TO_DATE('1995-
03-01','YYYY-MM-DD'), 1)
GROUP BY P_TYPE

INSERT INTO SUM_PROMO_SALES0
SELECT SUM(AMOUNT)
FROM  ALL_SALES0
WHERE TYPE LIKE 'PROMO%'

INSERT INTO SUM_ALL_SALES0
SELECT SUM(AMOUNT)
FROM ALL_SALES0

SELECT 100.00*PROMO_AMOUNT/ALL_AMOUNT AS
PROMO_REVENUE
FROM SUM_PROMO_SALES0, SUM_ALL_SALES0

PROMO_REVENUE
16.64


1 row processed.

DROP TABLE ALL_SALES0

DROP TABLE SUM_PROMO_SALES0

DROP TABLE SUM_ALL_SALES0

-- Query 8 (Variant B) Q8      B

SELECT
YEAR,
SUM(DECODE(NATION, 'IRAN', VOLUME, 0)) /
SUM(VOLUME) AS MKT_SHARE
FROM
(SELECT
TO_CHAR(O_ORDERDATE,'YYYY') AS YEAR,
L_EXTENDEDPRICE*(1-L_DISCOUNT) AS VOLUME,
N2.N_NAME AS NATION
FROM PARTS, SUPPLIER, LINEITEM, ORDERS,
CUSTOMER, NATION N1, NATION N2,
REGION
WHERE P_PARTKEY = L_PARTKEY
AND S_SUPPKEY = L_SUPPKEY
AND L_ORDERKEY = O_ORDERKEY
AND O_CUSTKEY = C_CUSTKEY
AND C_NATIONKEY = N1.N_NATIONKEY
AND N1.N_REGIONKEY = R_REGIONKEY
AND R_NAME = 'MIDDLE EAST'
AND S_NATIONKEY = N2.N_NATIONKEY
AND O_ORDERDATE BETWEEN TO_DATE ('1995-01-
01','YYYY-MM-DD') AND
TO_DATE('1996-12-31','YYYY-MM-DD')
AND P_TYPE = 'LARGE ANODIZED NICKEL'
) ALL_NATIONS
GROUP BY YEAR
ORDER BY YEAR

YEAR MKT_SHARE
1995 0.04
1996 0.04


2 rows processed.

-- Query 12 (Variant B)       Q12     B

SELECT
L_SHIPMODE,
SUM(DECODE(O_ORDERPRIORITY,'1-URGENT',1,'2-
HIGH',1,0)) AS HIGH_LINE_COUNT,
SUM(DECODE(O_ORDERPRIORITY,'1-URGENT',0,'2-
HIGH',0,1)) AS LOW_LINE_COUNT
FROM
ORDERS,
LINEITEM
WHERE O_ORDERKEY = L_ORDERKEY
AND L_SHIPMODE IN ('TRUCK','FOB')
AND L_COMMITDATE < L_RECEIPTDATE
AND L_SHIPDATE < L_COMMITDATE
AND L_RECEIPTDATE >= TO_DATE('1996-01-
01','YYYY-MM-DD')
AND L_RECEIPTDATE <
ADD_MONTHS(TO_DATE('1996-01-01' ,'YYYY-MM-
DD'),12)
GROUP BY L_SHIPMODE
ORDER BY L_SHIPMODE

L_SHIPMODE HIGH_LINE_COUNT  LOW_LINE_COUNT
FOB        626085.00        938294.00
TRUCK      623792.00        939515.00


2 rows processed.
```

```
-- Query 17 (Original) Q17



SELECT
SUM(L_EXTENDEDPRICE)/7.0 AS AVG_YEARLY
FROM LINEITEM, PARTS
WHERE P_PARTKEY = L_PARTKEY
AND P_BRAND = 'Brand#33'
AND P_CONTAINER = 'WRAP BOX'
AND L_QUANTITY < (SELECT
0.2* AVG(L1.L_QUANTITY)
FROM LINEITEM L1
WHERE L1.L_PARTKEY = P_PARTKEY)

AVG_YEARLY
31939330.38


1 row processed.
Setting the number of rows to fetch to: 10

-- Query 3 (Original)  Q3

SELECT
L_ORDERKEY,
SUM(L_EXTENDEDPRICE*(1-L_DISCOUNT)) AS
REVENUE,
TO_CHAR(O_ORDERDATE, 'YYYY-MM-DD'),
O_SHIPPRIORITY
FROM CUSTOMER, ORDERS, LINEITEM
WHERE C_MKTSEGMENT = 'FURNITURE'
AND C_CUSTKEY = O_CUSTKEY
AND L_ORDERKEY = O_ORDERKEY
AND O_ORDERDATE < TO_DATE('1995-03-
16','YYYY-MM-DD')
AND L_SHIPDATE > TO_DATE('1995-03-16','YYYY-
MM-DD')
GROUP BY L_ORDERKEY, O_ORDERDATE,
O_SHIPPRIORITY
ORDER BY REVENUE DESC, O_ORDERDATE

L_ORDERKEY       REVENUE
TO_CHAR(O_ORDERD O_SHIPPRIORITY
33655462.00      523031.55        1995-03-03
0.00
231686086.00     487759.42        1995-03-05
0.00
486605252.00     480690.71        1995-03-15
0.00
391442626.00     480573.26        1995-02-28
0.00
57909345.00      476835.45        1995-03-07
0.00
420735010.00     475052.46        1995-02-04
0.00
484101378.00     474720.47        1995-02-20
0.00
554876450.00     465084.05        1995-03-10
0.00
188730631.00     463203.23        1995-03-04
0.00
203285025.00     461981.49        1995-02-17
0.00


10 rows processed.
Statement Processed in 1210.14 seconds.

-- Query 5 (Original)  Q5

SELECT
N_NAME,
SUM(L_EXTENDEDPRICE*(1-L_DISCOUNT)) AS
REVENUE
FROM CUSTOMER, ORDERS, LINEITEM, SUPPLIER,
NATION, REGION
WHERE C_CUSTKEY = O_CUSTKEY
AND O_ORDERKEY = L_ORDERKEY
AND L_SUPPKEY = S_SUPPKEY
AND C_NATIONKEY = S_NATIONKEY
AND S_NATIONKEY = N_NATIONKEY
AND N_REGIONKEY = R_REGIONKEY
AND R_NAME = 'ASIA'
AND O_ORDERDATE >= TO_DATE('1995-01-
01','YYYY-MM-DD')
AND O_ORDERDATE < ADD_MONTHS(TO_DATE('1995-
01-01','YYYY-MM-DD'),12)
GROUP BY N_NAME
ORDER BY REVENUE DESC

N_NAME                    REVENUE
VIETNAM                   5362466500.49
CHINA                     5304508516.19
INDIA                     5279722359.25
INDONESIA                 5279067456.37
JAPAN                     5259455185.53


5 rows processed.

-- Query 13 (Original) Q13

SELECT
YEAR,
SUM(REVENUE) AS REVENUE
FROM
(SELECT
TO_CHAR(O_ORDERDATE,'YYYY') AS YEAR,
L_EXTENDEDPRICE * (1-L_DISCOUNT) AS REVENUE
FROM LINEITEM, ORDERS
WHERE  O_ORDERKEY = L_ORDERKEY
AND O_CLERK = 'Clerk#000000431'
AND L_RETURNFLAG = 'R'
) PERFORMANCE
GROUP BY YEAR
ORDER BY YEAR

YEAR REVENUE
1992 17002547.10
1993 17534799.20
1994 14301025.42
1995 4195656.05


4 rows processed.

-- Query 7 (Original)  Q7

SELECT
SUPP_NATION,
CUST_NATION,
YEAR,
SUM(VOLUME) AS REVENUE
FROM
(SELECT
N1.N_NAME AS SUPP_NATION,
N2.N_NAME AS CUST_NATION,
TO_CHAR(L_SHIPDATE,'YYYY') AS YEAR,
L_EXTENDEDPRICE * (1-L_DISCOUNT) AS VOLUME
FROM SUPPLIER, LINEITEM, ORDERS, CUSTOMER,
NATION N1, NATION N2
WHERE S_SUPPKEY = L_SUPPKEY
AND O_ORDERKEY = L_ORDERKEY
AND C_CUSTKEY = O_CUSTKEY
AND S_NATIONKEY = N1.N_NATIONKEY
AND C_NATIONKEY = N2.N_NATIONKEY
AND ((N1.N_NAME = 'IRAN' AND N2.N_NAME =
'JAPAN') OR
(N1.N_NAME = 'JAPAN' AND N2.N_NAME =
'IRAN'))
AND L_SHIPDATE BETWEEN TO_DATE('1995-01-
01','YYYY-MM-DD') AND
TO_DATE('1996-12-31','YYYY-MM-DD')
) SHIPPING
GROUP BY SUPP_NATION, CUST_NATION, YEAR
ORDER BY SUPP_NATION, CUST_NATION, YEAR

SUPP_NATION               CUST_NATION
YEAR REVENUE
```

```
IRAN                      JAPAN
1995 5241591238.61
IRAN                      JAPAN
1996 5282135495.90
JAPAN                     IRAN
1995 5243825176.18
JAPAN                     IRAN
1996 5274453992.46


4 rows processed.

-- Query 9 (Original)  Q9

SELECT
NATION,
YEAR,
SUM(AMOUNT) AS SUM_PROFIT
FROM
(SELECT
N_NAME AS NATION,
TO_CHAR(O_ORDERDATE,'YYYY') AS YEAR,
L_EXTENDEDPRICE * (1-L_DISCOUNT) -
PS_SUPPLYCOST * L_QUANTITY AS AMOUNT
FROM PARTS, SUPPLIER, LINEITEM, PARTSUPP,
ORDERS, NATION
WHERE S_SUPPKEY  = L_SUPPKEY
AND PS_SUPPKEY = L_SUPPKEY
AND PS_PARTKEY = L_PARTKEY
AND P_PARTKEY  = L_PARTKEY
AND O_ORDERKEY = L_ORDERKEY
AND S_NATIONKEY = N_NATIONKEY
AND P_NAME LIKE '%khaki%'
) PROFIT
GROUP BY NATION, YEAR
ORDER BY NATION, YEAR DESC

NATION                    YEAR SUM_PROFIT
ALGERIA                   1998 2663786363.03
ALGERIA                   1997 4568198128.11
ALGERIA                   1996 4571901633.09
ALGERIA                   1995 4574597299.56
ALGERIA                   1994 4538956616.09
ALGERIA                   1993 4555486757.11
ALGERIA                   1992 4567189611.84
ARGENTINA                 1998 2664412237.49
ARGENTINA                 1997 4539530906.13
ARGENTINA                 1996 4576185093.72

175 rows processed.

Queries processed: 17
```

Appendix D: Seed and Query Substitution Parameters

-- using 857038079 as a seed to the RNG

-- Query 1 Original

DELTA=86

-- Query 2 (Variant A)

SIZE=22
TYPE=NICKEL
REGION=MIDDLE EAST

-- Query 3

SEGMENT=FURNITURE
DATE=1995-03-16

-- Query 4 (Variant B)

DATE=1995-02-01

-- Query 5

REGION=ASIA
DATE=1995-01-01

-- Query 6

SHIPDATE=1995-01-01
DISCOUNT=0.01
QUANTITY=25

-- Query 7 (Original)

NATION1=IRAN
NATION2=JAPAN

-- Query 8 (Variant B)

NATION=IRAN
REGION=MIDDLE EAST
TYPE=LARGE ANODIZED NICKEL

-- Query 9 (Original)

COLOR=khaki

-- Query 10

DATE=1993-12-01

-- Query 11 (Variant A)

NATION=IRAN
FRACTION=0.000001

-- Query 12 (Variant B)

SHIPMODE1=TRUCK
SHIPMODE2=FOB
DATE=1996-01-01

-- Query 13 (Original)

CLERK=Clerk#000000431

-- Query 14 (Variant C)

DATE=1995-03-01

-- Query 15 (Variant B)

DATE=1995-02-01

-- Query 16

BRAND=Brand#33
TYPE=PROMO ANODIZED
SIZE IN (37, 50 ,40 ,36 ,48, 10, 8, 43)

-- Query 17 (Original)

BRAND=Brand#33
CONTAINER=WRAP BOX

Appendix E: Implementation Specific Layer/Source Code

The following table lists the source code files used in the benchmark runs.

Implementation–Specific Driver Files

File Name	Description
qexecpl.c	SQL execution engine, OCI version
qexecpl.h	SQL statement execution front-end header file
gettime.c	Get wall clock and CPU time
uf1.pc	TPC-D benchmark UF1 driver, PRO*C version. Also used to restore UF2.
uf2_del.pc	TPC-D benchmark uf2 driver, PRO*C version. Also used to restore UF1.
runuf1.sh	Executes UF1
runuf2.sh	Executes UF2
runpower1.sh	Single-stream TPC-D power test

qexecpl.c

```
/*=================================================================+
 |       Copyright (c) 1996  Oracle Corp, Redwood Shores, CA       |
 |                    OPEN SYSTEMS PERFORMANCE GROUP               |
 |                         All Rights Reserved                     |
 +=================================================================+
 | FILENAME
 |    qexecpl.c
 | DESCRIPTION
 |    SQL Execution Engine, OCI version
 | MODIFIED
 |    pswong    04/02/96 - more polishing
 |    pswong    03/25/96 - polish up
 |    pswong          03/06/96 - created
 +=================================================================*/

#include <stdio.h>
#include <string.h>
#include <setjmp.h>
/*#include <sys/param.h>*/
#include <stdlib.h>
#include <errno.h>
#include <math.h>
#include <string.h>
#include <sys/types.h>
#include <time.h>

#include "qexecpl.h"

/* Function Prototypes */

extern double gettime();

/* function prototypes from gen.c */

int get_statement();

/* Declare error handling functions */

void sql_error();
void sql_error2();

/* Other prototypes */

int define_output_variables();
void process_select_list();
void usage();
void SQLinit();
void SQLexec();
void SQLexit();
void *memalloc();
void print_header();
void print_rows();
int OFEN();
void remove_newline();

char logname[UNAME_LEN];  /* username/passwd combo */

double tr_start = 0.0;    /* query start time                    */
double tr_end = 0.0;      /* query end time                      */

double s_tr_start = 0.0;  /* statement start time                */
double s_tr_end = 0.0;    /* statement end time                  */

/* For our purpose of timing, we will treat comments as delimiters */
/* for queries.   Thus, we will collect query timings whenever we  */
/* encounter a comment (of course not for the first comment in a   */
/* file).                                                          */

int end_flag = 0;         /* flag to indicate that we have reached */
                          /* the end of a query                    */

int stmt_cnt = 0;         /* Number of statements processed.     */
int qry_cnt = 0;          /* Number of query processed.          */

double product = 1.0;     /* cumulative product of query times   */
int rows_ret = 0;         /* the number of rows fetched          */
int num_sel_list = 0;     /* the number of select list item      */

long num_to_fetch = -1;   /* Number of rows to fetch. -1 means fetch all
*/

sltype slist[MAX_SEL_LIST];  /* Array for describing Select List
*/
dltype *dlist[MAX_SEL_LIST]; /* Array of ptrs for Defining Select List
*/

char stmt[SQL_LEN];       /* The SQL statement or comment line.  */
char cmnt[81];            /* Buffer to save the comment.         */

FILE *qtemp = stdin;      /* fd for query template               */
FILE *logfile = stdout;   /* log and report files                */
FILE *rep = stdout;

void *defbuf;             /* Buffer pointer for ODEFIN           */
int deflen = 0;           /* Size of data type for ODEFIN        */
int deftype = 1;          /* Oracle type number for ODEFIN       */

time_t tim;               /* To get wall clock time              */

ldadef tpclda;
csrdef curq;
unsigned long tpchda[256];

/* usage: prints the usage of the program */

void usage() {

  fprintf(stderr,"\nUsage: qexec.ott username/password [q<path name for
query template file>]\n");
  fprintf(stderr,"                  [l<path name for log>] [r<path name
for reports>]\n\n");
  fprintf(stderr,"Options:\n");
  fprintf(stderr,"q<path for query>         : full path name for the
query template file.\n");
  fprintf(stderr,"                            (default is stdin)\n");
  fprintf(stderr,"l<path name for log>      : full path name for log
files\n");
  fprintf(stderr,"                            (default is stdout)\n");
  fprintf(stderr,"r<path name for reports>  : full path name for
reports\n");
  fprintf(stderr,"                            (default is stdout)\n");
  exit(-1);
}



void sql_error(lda, cur)
     ldadef *lda;
     csrdef *cur;
{
  char msg[2048];

  if (cur->rc) {
```

Appendix E

```
    oerhms(lda, cur->rc, (text *) msg, 2048);
    fprintf(stderr, "Error: SQL Error encountered in Oracle!\n");
    fputs(msg, stderr);
  }

  /* Rollback just in case */

  orol(lda);

  fprintf(stderr, "Exiting Oracle...\n");
  fflush(stderr);

  SQLexit();

  exit(1);
}

void sql_error2(lda, cur)
     ldadef *lda;
     csrdef *cur;
{

  char msg[2048];

  if (cur->rc) {
    oerhms(lda, cur->rc, (text *) msg, 2048);
    fprintf(stderr, "Error: SQL Error encountered in Oracle!\n");
    fputs(msg, stderr);
  }

  fflush(stderr);
}



void main(argc,argv)
     int argc;
     char *argv[];
{

  int retcode;      /* Return code for get_statement */

  /* Initialize some variables */

  if ((argc > 5) || (argc < 2)) {
    usage();
  }

  /* argv[1] -- User and Password for Database */

  strcpy(logname, argv[1]);

  /* Process  optional parameters */

  argc -= 1;
  argv += 1;

  while(--argc) {
    ++argv;
    switch(argv[0][0]) {
    case 'q':
      if ((qtemp = fopen(++(argv[0]),"r")) == NULL) {
            fprintf(stderr,"Unable to open file '%s'\n", argv[0]);
            fprintf(stderr,"%s: %s\n", argv[0], strerror(errno));
            exit(-1);
      }
      break;
    case 'r':
      if ((rep = fopen(++(argv[0]),"a")) == NULL) {
            fprintf(stderr,"Unable to open file '%s'\n", argv[0]);
            fprintf(stderr,"%s: %s\n", argv[0], strerror(errno));
            exit(-1);
      }
      break;
    case 'l':
      if ((logfile = fopen(++(argv[0]),"a")) == NULL) {
            fprintf(stderr,"Unable to open file '%s'\n", argv[0]);
            fprintf(stderr,"%s: %s\n", argv[0], strerror(errno));
            exit(-1);
      }
      break;
    default:
      fprintf(stderr,"Invalid Option: %c\n", argv[0][0]);
      usage();
      break;
    }
  }

  /* Do some initialization and establish connection with the database
*/

  SQLinit();

  /* May want to add some triggering mechanism here */

  time(&tim);
  fprintf(logfile, "Begin Execution at %s\n\n", ctime(&tim));

  /* Get the next statement and start processing it */

  while ((retcode = get_statement()) > 0) {

    switch (retcode) {

      /* If this is a comment, skips it */
    case COMMENT:
      if (end_flag) {
            end_flag = 0;      /* reset query end flag */
            /* save the comment so that we can print it out later on  */
            strcpy(cmnt, stmt);
            break;
      }
      fprintf(logfile, "%s", stmt);
      fprintf(rep, "%s", stmt);
      break;

      /* if this is a set_row_fetch command */
    case SET_FETCHROW:
      fprintf(logfile,"Setting the number of rows to fetch to: %ld\n\n",
                  num_to_fetch);
      break;

      /* if this is a SQL statement */
    case SQL_STMT:

      /* Executes the query */

      SQLexec();

      s_tr_end = gettime();
      stmt_cnt++;

      /*
      fprintf(logfile,"\nStatement Started at %.2f\n", s_tr_start);
      fprintf(logfile,"Statement Ended at %.2f\n", s_tr_end);
      */
      fprintf(logfile,"Statement Processed in %.2f seconds.\n",
                  (s_tr_end - s_tr_start));
      break;

      /* Should never reach here */
    default:
      fprintf(stderr, "Invalid statement type!!\n");
      SQLexit();
      break;
    }
  }

  /* Get Timing for the last query */

  tr_end = gettime();

  time(&tim);
  fprintf(logfile,"\nEnded Executing this Query at %s\n", ctime(&tim));
  fprintf(logfile,"\nQuery Started at %.2f\n", tr_start);
  fprintf(logfile,"Query Ended at %.2f\n", tr_end);
  fprintf(logfile,"Query Processed in %.2f seconds\n\n",
              (tr_end - tr_start));

  fprintf(rep, "%.2f\n", (tr_end - tr_start));

  fprintf(logfile, "\nSQL statements processed: %d\n", stmt_cnt);
  fprintf(logfile, "Queries processed: %d\n", qry_cnt);

  fflush(rep);
  fflush(logfile);

  /* Close the query template file */

  fclose(qtemp);

  /*  Disconnect from ORACLE. */

  SQLexit();
  exit(0);
}



/* SQLinit(): Perform initialization tasks.
*/
/*            Logs on to Oracle, opens some files and open a cursor for
*/
/*            later use.
*/

void SQLinit() {

  int i;

  /* preallocate MAX_PREALLOC members of the dlist array
*/
  /* initializes others to NULL so that we can determine who to free
later */

  for (i=0; i<MAX_SEL_LIST; i++) {
    if (i < MAX_PREALLOC)
      dlist[i] = (dltype *) memalloc (sizeof(dltype));
    else
      dlist[i] = NULL;
  }

  /* Connect to ORACLE.  Program will call sql_error()         */
  /* if an error occurs in connecting to the default database. */

  if (orlon(&tpclda, (ub1 *)tpchda, (text *)logname, -1, (text *)0, -1,
0)) {
/*
  if (olog(&tpclda, (ub1 *)tpchda, (text *)logname, -1, (text *)0, -1,
(text *)0, -1,
            (ub4)OCI_LM_NBL)) {
*/
    fprintf (stderr, "Error: Failed to log on\n");
    sql_error(&tpclda, &tpclda);
    exit(-1);
  }

  printf("\nConnected to ORACLE as user: %s\n\n", logname);

  /* Open a cursor for us to use */

  OOPEN(&tpclda, &curq);

}



/* SQLexec()  Executes the SQL statement.
*/
/*            Parse the SQL statement.
*/
/*            If DDL or DML statements, execute right away.
*/
/*            Else describe and define select list outputs,
*/
/*                 execute and fetch results.
*/

void SQLexec()
{
  int i;

  if (!end_flag) {

    /* Clause 5.3.6.2: QI(i,s) is the time between the first character
*/
    /*                 of this query text is submitted and the first
*/
    /*                 character of the next query text is submitted.
*/

    tr_end = gettime();

    if (qry_cnt) {
      time(&tim);
```

```
      fprintf(logfile,"\nEnded Executing this Query at %s\n",
ctime(&tim));
      fprintf(logfile,"\nQuery Started at %.2f\n", tr_start);
      fprintf(logfile,"Query Ended at %.2f\n", tr_end);
      fprintf(logfile,"Query Processed in %.2f seconds.\n\n",
                  (tr_end - tr_start));

      fprintf(logfile,"-------------------------------------------------
\n\n");

      /* print comments for this query that we have saved */

      fprintf(logfile, "%s\n", cmnt);

      fprintf(rep, "%.2f\n", (tr_end - tr_start));
      fprintf(rep, "%s", cmnt);

      fprintf(logfile,"\nBegan Executing this Query at %s\n",
ctime(&tim));

      /* Let's fflush stuff so that we can see what's going on */

      fflush(logfile);
      fflush(rep);

    }

    tr_start = tr_end;
    qry_cnt++;

    end_flag = 1;
  }

  s_tr_start = gettime();

  /* parse the query, use no defer option to determine the statement
type */
  /* and catch any syntax error before we progress further.
*/

  OPARSE(&tpclda, &curq, stmt, NA, FALSE, VER7);

  /* Prints the query text to the logfile */

  fprintf(logfile, "\n%s\n", stmt);

  /* if this is a DDL or DML statement, execute it right away */
  /* only worries about SELECT statements right now, cannot   */
  /* execute a stored PL/SQL procedure in thie version        */

  if (curq.ft != 4) {
    OEXEC(&tpclda,&curq);
    return;
  }

  /* otherwise, this is a select statement */
  /* Describe and define output variables  */

  num_sel_list = define_output_variables();

  /* Executes the query and fetches the rows */

  (void) process_select_list(num_sel_list);


  /* Need to get the number of rows fetched first   */
  /* since the following statments will screw it up */

  rows_ret = curq.rpc;

  /* To control memory usage, let's free up the extra dlist entries */
  /* that we have allocated.                                        */

  i=MAX_PREALLOC;

  while(dlist[i] != NULL) {
            free(dlist[i]);
            dlist[i++] = NULL;
  }

  /* reset set_fetchrows */

  num_to_fetch = -1;

}


void SQLexit() {

  int i;

  oclose(&curq);
  ologof(&tpclda);

  /* free all memory */

  for (i=0; i<MAX_SEL_LIST; i++) {
    if (dlist[i] != NULL) {
       free(dlist[i]);
              dlist[i] = NULL;
            }
  }

  /* Flush all output */

  fflush(rep);
  fflush(logfile);

}


/* define_output_variables(): Describe and define select-list items for
*/
/*                            a query statement.
*/
/*                            Returns the number of select-list items
*/
/*                            for this query.
*/

int define_output_variables()
{

  int i;

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

    slist[i].buflen = MAX_COLNAME_SIZE;

    if (odescr(&curq, POS(i), (sb4 *) &slist[i].dbsize,
                  (sb2 *) &slist[i].dbtype, (sb1 *) &(slist[i].buf[0]),
                  (sb4 *) &slist[i].buflen, (sb4 *) &slist[i].dsize,
                  (sb2 *) &slist[i].precision, (sb2 *) &slist[i].scale,
                  (sb2 *) &slist[i].nullok)) {
      if (curq.rc == END_OF_LIST)
            break;
      else {
            sql_error(&tpclda, &curq);
            return -1;
      }
    }

    /* For formatting purpose, remove trailing blanks in select-list
name. */

    if (slist[i].buflen < MAX_COLNAME_SIZE)
      (slist[i].buf)[slist[i].buflen] = '\0';

    /* Well, we need to allocate for entries for dlist */

    if (i >= MAX_PREALLOC)
      dlist[i] = (dltype *) memalloc(sizeof(dltype));

    /* Let's check the sizes and types for this select list item */

    switch (slist[i].dbtype) {

    case NUM_TYPE:

      /* see if it is an integer or a floating point number */

      slist[i].dbsize = NUMWIDTH;

      /* The odescr will not give a good estimate to the scale if */
      /* no scale was given in the Oracle table definition.       */

#ifdef HAVE_SCALE
      if (slist[i].scale != 0) {
            defbuf = (double *) dlist[i]->fbuf;
            deflen = FLT;
            deftype = FLT_TYPE;
            slist[i].dbtype = FLT_TYPE;
      } else {
            defbuf = (int *) dlist[i]->ibuf;
            deflen = INT;
            deftype = INT_TYPE;
            slist[i].dbtype = INT_TYPE;
      }
#else
      defbuf = (double *) dlist[i]->fbuf;
      deflen = FLT;
      deftype = FLT_TYPE;
      slist[i].dbtype = FLT_TYPE;
#endif /* HAVE_SCALE */

      break;

    default:

      /* default is character string */

      defbuf = (char **) dlist[i]->sbuf;
      deflen = MAX_STR_LEN;
      deftype = STR_TYPE;
      break;

    }

    /* Define the column */

    ODEFIN(&tpclda,&curq,POS(i),defbuf,deflen,deftype,NA,
                (ub2 *)0, (text *)0,NA,NA,(ub2 *)dlist[i]->rlen,(ub2
*)0);

  }
  return i;
}


/* process_select_list(): Fetch rows from a query.                   */

void process_select_list(num)
     int num;        /* number of select list items */
{

  int ntf;

  /* Print the headers for the query execution result */

  print_header(num);

  /* See if we need to limit the rows to fetch */

  ntf = (num_to_fetch >= 0) ? num_to_fetch : MAX_ARRAY;

  /* Fetch the rows and print them out */

  if ((ntf > MAX_ARRAY) || (num_to_fetch == -1)) {

    OEXFET(&tpclda,&curq,MAX_ARRAY,0,0);
    rows_ret = curq.rpc;
    print_rows(num,rows_ret);

    /* To avoid 1022 from OFEN */
    /* More rows to fetch...   */

    if (curq.rc != 1403) {
      if (num_to_fetch == -1) {
            while (OFEN(&tpclda,&curq, MAX_ARRAY) != -1) {
              print_rows(num,(curq.rpc-rows_ret));
              rows_ret = curq.rpc;
            }
            /* Print the final rows */
            print_rows(num,(curq.rpc-rows_ret));
            rows_ret = curq.rpc;
      } else {
            ntf -= MAX_ARRAY;
            while (OFEN(&tpclda,&curq, ((ntf>MAX_ARRAY) ?
MAX_ARRAY:ntf)) != -1) {
              ntf -= MAX_ARRAY;
              print_rows(num,(curq.rpc-rows_ret));
              rows_ret = curq.rpc;
              if (ntf <= 0) break;
            }
            print_rows(num,(curq.rpc-rows_ret));
            rows_ret = curq.rpc;
```

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```
      }
    }
  } else {
    OEXFET(&tpclda,&curq,ntf,0,0);
    rows_ret = curq.rpc;
    print_rows(num,rows_ret);
  }

  fprintf(logfile,"\n\n%d row%c processed.\n", rows_ret,
              rows_ret == 1 ? '\0' : 's');

}


int OFEN(lda,cur,nrows)
     ldadef *lda;
     csrdef *cur;
     int     nrows;
{

  if(ofen(cur, nrows))
    if (cur->rc != 1403) {
      sql_error(lda,cur);
      return 1;
    } else
      return -1;

  return 1;
}


int get_statement()
{

  char line[128];
  char *pos, *str;

  /* Reset statement buffer */

  stmt[0] = '\0';

  while (fgets(line, 127, qtemp) != NULL) {

    /* skip blank lines */
    if (line[0] == '\n')
      continue;

    /* remove blanks */

    str = line;

    while (*str == ' ') str++;

    /* Let's get the line together first */

    strcat(stmt, str);

    /* if this is a comment line */
    if ((str[0] == '-') && (str[1] == '-'))
      return COMMENT;

    /* see if this is a set_fetchrows line */
    if (strncmp(str, "set_fetchrows", 13) == 0) {
      pos = strchr(str, ';');
      *pos = '\0';
      pos = strchr(str, '=');
      num_to_fetch = atol(++pos);
      return SET_FETCHROW;
    }

    /* if this is the end of the current statement */
    if ((pos = strchr(stmt, ';')) != NULL) {
      *pos = '\0';
      return SQL_STMT;
    }
  }
  return END_OF_FILE;
}


/* memalloc(): Allocates memory, exit program if we have a problem. */

void *memalloc(size)
     int size;
{

  void *tmp;

  if ((tmp = (void *) malloc(size)) == NULL) {
    fprintf(stderr, "Error in malloc\n");
    SQLexit();
    return NULL;       /* should never reach here */
  } else {
    return tmp;
  }
}


void print_header(nsel)
     int nsel;           /* Number of select list items */
{

  int i;
  int len = 0;           /* Running column length */
  int cwid = 0;

  fprintf(logfile, "\n");

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

    /* format the output a little */

    cwid = MAX(slist[i].dbsize, slist[i].buflen);

    /* do a little bit of formatting */

    if (cwid > 80) {
      fprintf(logfile,"\n");
      len = 0;
    } else if ((len += cwid) > 80) {
      fprintf(logfile,"\n");
      len = cwid;
    }
#ifdef FORMAT1
    if ((slist[i].dbtype == INT_TYPE) || (slist[i].dbtype == FLT_TYPE))
      fprintf(logfile, "%*s ", cwid, slist[i].buf);
    else  /* string type */
      fprintf(logfile, "%*s ", -cwid, slist[i].buf);
#else
      fprintf(logfile, "%*s ", -cwid, slist[i].buf);
#endif /* FORMAT1 */
  }

  fprintf(logfile,"\n");
}


void print_rows(ncol, nrow)
     int ncol;
     int nrow;
{

  int j,j;
  int len;
  int cwid;

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

    len = 0;

    for (j=0;j<ncol;j++) {

      cwid = MAX(slist[j].dbsize, slist[j].buflen);

      /* do a little bit of formatting */

      if (cwid > 80) {
            fprintf(logfile,"\n");
            len = 0;
      } else if ((len += cwid) > 80) {
            fprintf(logfile,"\n");
            len = cwid;
      }

      switch(slist[j].dbtype) {
      case INT_TYPE:
#ifdef HAVE_SCALE
            fprintf(logfile, "%*ld|", cwid,     (dlist[j]->ibuf)[i]);
            break;
#endif /* HAVE_SCALE */
      case FLT_TYPE:
#ifdef FORMAT1
            fprintf(logfile,"%*.2f ", cwid, (dlist[j]->fbuf)[i]);
#else
            fprintf(logfile,"%*.2f ", -cwid, (dlist[j]->fbuf)[i]);
#endif /* FORMAT1 */
            break;
      default:
            fprintf(logfile, "%*s ", -(cwid), (dlist[j]->sbuf)[i]);
            break;
      }
    }
    fprintf(logfile, "\n");
  }
}

/* remove_newline(): Remove newline character from str. */

void remove_newline(str)
     char *str;
{

  char *p;

  while ((p = strchr(str,'\n')) != NULL)
    *p = ' ';
}
```

qexecpl.h

```
/*=================================================================+
 |       Copyright (c) 1995  Oracle Corp, Redwood Shores, CA       |
 |                    OPEN SYSTEMS PERFORMANCE GROUP               |
 |                         All Rights Reserved                     |
 +=================================================================+
 | FILENAME
 |    qstream.h
 | DESCRIPTION
 |    SQL statement execution front-end header file.
 | MODIFIED
 |    pswong    03/07/96 - created
 +=================================================================*/

#ifndef QSTREAMPL_H

#define QSTREAMPL_H

#include <stdio.h>
#include <string.h>
/*#include <sys/param.h>*/
#include <sys/types.h>
#include <time.h>
#include <errno.h>
#include <math.h>

#include <oratypes.h>
#include <ocidfn.h>

#ifdef __STDC__
#include <ociapr.h>
#else
#include <ocikpr.h>
#endif /* __STDC__ */

typedef struct cda_def csrdef;
typedef struct cda_def ldadef;

/* some basic definitions */

#define UNAME_LEN 64
#define MAX_FILE_PATH_LEN 128

#ifndef TRUE
#define TRUE 1
```

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```
#endif /* TRUE */

#ifndef FALSE
#define FALSE 1
#endif /* FALSE */

#define MAX(x,y) ((x >= y) ? x : y)
#define MIN(x,y) ((x <= y) ? x : y)

/* defines and typedefs for parsing */

#define CRT_TBL  1
#define INS_STMT 3
#define SEL_STMT 4
#define UPD_STMT 5
#define DRP_VIEW 7
#define DRP_TBL  8
#define DEL_STMT 9
#define CRT_VIEW 10

/* defines and typedefs for query description */

#define MAX_COLNAME_SIZE 16   /* Maximum length of Column name  */
#define MAX_SEL_LIST 16       /* Maximum items on a select list */

#define END_OF_LIST 1007      /* Error code when we reach the end of the
*/
                              /* select list.
*/

/* types for describe */

#define CHAR_TYPE 1
#define NUM_TYPE  2
#define INT_TYPE  3
#define FLT_TYPE  4
#define STR_TYPE  5
#define DATE_TYPE 12

#define NUMWIDTH 16           /* Width of the numeric fields    */

#define POS(i) (i+1)          /* The position is 1...n instead  */
#define IND(i) (i-1)          /* of 0..n-1 as in an array.      */

typedef struct des
{
  sb4 dbsize;
  sb2 dbtype;
  sb1 buf[MAX_COLNAME_SIZE];
  sb4 buflen;
  sb2 dsize;
  sb2 precision;
  sb2 scale;
  sb2 nullok;
} sltype;


/* defines and typedefs for query select list definition */

#define MAX_ARRAY 3        /* Maximum array size for array fetch */

#define MAX_STR_LEN 256    /* Maximum size for string variables
*/
#define MAX_PREALLOC 8     /* Maximum number of preallocated select list
*/
                           /* definitions.
*/

/* Note:  Well, I don't want to waste too much memory at the start.
*/
/*        Thus, I defined a MAX_PREALLOC so that we limit the amount
*/
/*        of memory used for the dlist array.
*/
/*        The program will dynamically allocate the remaining members
*/
/*        of the dlist array if necessary.
*/

/*        Actually, I can go one step further by making everything
*/
/*        dynamic.  But I don't want to call tons of mallocs and frees
*/
/*        during the query execution.  Another one of those memory-CPU
*/
/*        trade-offs.....
*/

#define INT sizeof(long)
#define STR sizeof(char)
#define FLT sizeof(double)

#define FLTP (double *)
#define INTP (long *)

#define STRP (char **)

typedef struct def
{
  long ibuf[MAX_ARRAY];
  double fbuf[MAX_ARRAY];
  char sbuf[MAX_ARRAY][MAX_STR_LEN];
  ub2 rlen[MAX_ARRAY];         /* return length     */
} dltype;

extern int errno;

#define SQL_LEN 2048

#ifndef NULL
#define NULL 0
#endif

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

#ifndef DISCARD
# define DISCARD (void)
#endif

#ifndef sword
# define sword int
#endif

#ifndef ub1
#define ub1 unsigned char
#endif

#define NA              -1      /* ANSI SQL NULL */
#define VER7            2
#define NOT_SERIALIZABLE  8177  /* ORA-08177: transaction not
serializable */

#define ADR(object) ((ub1 *)&(object))
#define SIZ(object) ((sword)sizeof(object))
#define SID(sid) ((sid == -1) ? 0 : sid)

/* For get_statement */

#define END_OF_FILE -1
#define COMMENT 1
#define SQL_STMT   2
#define SET_FETCHROW 3

#define OOPEN(lda,cursor)\
    if (oopen((cursor),(lda),(text*)0,NA,NA,(text*)0,NA))\
        {sql_error(lda,cursor);}\
    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),\
                        (sb2
*)(indp),(text*)(fmt),(fmtl),(fmtt),(rlen),(rcode)))\
        {sql_error(lda,cursor);}\
    else\
       DISCARD 0

#define OEXFET(lda,cursor,nrows,cancel,exact)\
    if (oexfet((cursor),(nrows),(cancel),(exact)))\
        {if ((cursor)->rc == 1403) DISCARD 0; \
         else {sql_error(lda,cursor);}} \
    else\
       DISCARD 0

#define OPARSE(lda,cursor,sqlstm,sqll,defflg,lngflg)\
    if (oparse((cursor),(text
*)(sqlstm),(sb4)(sqll),(defflg),(ub4)(lngflg)))\
        {sql_error(lda,cursor);}\
    else\
       DISCARD 0

#define OEXEC(lda,cursor)\
    if (oexec((cursor)))\
        {sql_error(lda,cursor);}\
    else\
       DISCARD 0

#define ISOTXT "alter session set isolation_level = serializable"

#endif /* QSTREAMPL_H */
```

Appendix E

gettime.c

```
/*=================================================================+
 |       Copyright (c) 1996  Oracle Corp, Redwood Shores, CA       |
 |                    OPEN SYSTEMS PERFORMANCE GROUP               |
 |                         All Rights Reserved                     |
 +=================================================================+
 | FILENAME
 |    gtime.c
 | DESCRIPTION
 |    Wrapper for gettime
 +=================================================================*/

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

double gettime();

main() {
  printf("%f", gettime());
  exit(0);
}
```

uf1.pc

```
/*=================================================================+
 |       Copyright (c) 1995  Oracle Corp, Redwood Shores, CA       |
 |                    OPEN SYSTEMS PERFORMANCE GROUP               |
 |                         All Rights Reserved                     |
 +=================================================================+
 | FILENAME
 |    uf1.pc
 | DESCRIPTION
 |    TPC-D benchmark uf1 driver, PRO*C version
 | MODIFIED
 |    pswong   03/25/96 - more polish
 |    pswong   02/28/96 - clean it up a little
 |    pswong   04/21/95 - update to Spec 9.1, Use QGEN
 +=================================================================*/

#include <stdio.h>
#include <string.h>
#include <setjmp.h>
/*#include <sys/param.h>*/
#include <errno.h>
#include <math.h>
#include <string.h>
/*#include <unistd.h>*/
#include <signal.h>
#include <stdlib.h>

#include "shared.h"

#define MAX_FILE_PATH_LEN 256
#define LINESIZE 256
#define LSIZE (LINESIZE-1)
#define UNAME_LEN 32

/* Include the SQL Communications Area. */

#include <sqlca.h>

/* Inclde the Oracle Communication Area */

EXEC SQL INCLUDE oraca;
EXEC ORACLE OPTION (ORACA=YES);

extern double gettime();

/* Declare error handling functions */

void sql_error();
void usage();
int get_ord_line();
int get_item_line();
char *nextpos();
void wakeup();

#define MAX_ITEMS 40
#define MAX_VNAME_LEN 30
#define MAX_INAME_LEN 30

/* batch size for inserts */

#define MAX_ORD_INSERTS 100
#define MAX_LINE_INSERTS (7 * MAX_ORD_INSERTS)

#ifndef NULL
#define NULL 0
#endif

/* structures to store query results */
/* typedefs in query.h               */

EXEC SQL BEGIN DECLARE SECTION;
VARCHAR     lname[32];  /* UNAME_LEN username/passwd combo */

int linecnt = 0;   /* used to specify the number of rows for array
inserts */
int ordcnt = 0;    /* used to specify the number of rows for array
inserts */

/* declarations for ORDER */

long o_okey[100]; /*MAX_ORD_INSERTS];*/
long o_ckey[100]; /*MAX_ORD_INSERTS];*/
varchar o_ostat[100][2]; /*MAX_ORD_INSERTS][2];*/
float o_tprice[100]; /*MAX_ORD_INSERTS]; */
varchar o_odate[100][13]; /*MAX_ORD_INSERTS][DATE_LEN];*/
varchar o_opri[100][15+1]; /*MAX_ORD_INSERTS][O_OPRIO_LEN+1];*/
varchar o_clk[100][15+1]; /*MAX_ORD_INSERTS][O_CLRK_LEN+1];*/
int o_spri[100]; /*MAX_ORD_INSERTS]; */
varchar o_cmnt[100][79+1]; /*MAX_ORD_INSERTS][O_CMNT_MAX+1]; */

/* declarations for LINEITEM */

long l_okey[700]; /*MAX_LINE_INSERTS];*/
long l_pkey[700]; /*MAX_LINE_INSERTS];*/
long l_skey[700]; /*MAX_LINE_INSERTS];*/
int l_lnum[700]; /*MAX_LINE_INSERTS];*/
float l_quan[700]; /*MAX_LINE_INSERTS];*/
float l_eprice[700]; /*MAX_LINE_INSERTS];*/
float l_disc[700]; /*MAX_LINE_INSERTS];*/
float l_tax[700]; /*MAX_LINE_INSERTS];*/
varchar l_rflag[700][2]; /*MAX_LINE_INSERTS][2];*/
varchar l_lstat[700][2]; /*MAX_LINE_INSERTS][2];*/
varchar l_sdate[700][13]; /*MAX_LINE_INSERTS][DATE_LEN];*/
varchar l_cdate[700][13]; /*MAX_LINE_INSERTS][DATE_LEN];*/
varchar l_rdate[700][13]; /*MAX_LINE_INSERTS][DATE_LEN];*/
varchar l_sinst[700][25+1]; /*MAX_LINE_INSERTS][L_INST_LEN+1];*/
varchar l_smode[700][10+1]; /*MAX_LINE_INSERTS][L_SMODE_LEN+1];*/
varchar l_cmnt[700][44+1]; /*MAX_LINE_INSERTS][L_CMNT_MAX+1];*/

EXEC SQL END DECLARE SECTION;

int set_id;              /* set_id, global within the driver    */
int run_id;              /* run_id, global                      */
int proc_no;             /* process number, global              */
double sf = 1.0;         /* scale_factor, global                */
double tr_end = 0.0;     /* query end time                      */
double tr_start = 0.0;   /* query start time                    */
double product = 1.0;    /* cumulative product of query times   */
int recover = 0;         /* recover from previous UF2?          */

FILE *logfile;           /* log and report files                */
FILE *ordfile, *itemfile; /* input data files                   */

char itemline[LINESIZE];  /* temp storage for input LINEITEM row */

/* usage: prints the usage of the program */

void usage() {

  fprintf(stderr,"\nUsage: uf1.o[st]t <set_id> <run_id> <proc_no>
<scale factor> [f<path name for reports> u<uid/passwd>] \n\n");
  fprintf(stderr,"       set_id                :the set id for this
update set\n");
  fprintf(stderr,"       run_id                :the run id for this
TPCD run\n");
  fprintf(stderr,"       proc_no               :the process number
within this update stream\n");
  fprintf(stderr,"       scale factor          :scale factor for the
run\n\n");
  fprintf(stderr,"       r                     :indicates that this
is a recovery run\n");
  fprintf(stderr,"       f<path name for log>  :full path name for
reports\n\n");
  fprintf(stderr,"       u<uid/passwd>         :Username/Password
string - default is tcpd/tpcd\n\n");
  exit(-1);

}



void sql_error()
{

  /* ORACLE error handler */
  fprintf (stderr, "Error: SQL Error encountered in Oracle!\n");
  fprintf (stderr, "\n\n%.70s\n",sqlca.sqlerrm.sqlerrmc);
  fflush(stderr);

  EXEC SQL WHENEVER SQLERROR CONTINUE;
  EXEC SQL ROLLBACK WORK;
  exit(1);

}



void main(argc,argv)
int argc;
char *argv[];
{

  int orows = 0;
  int lrows = 0;
  int notdone = 1;
  int err = 0;
  char ordpath[MAX_FILE_PATH_LEN];
  char itempath[MAX_FILE_PATH_LEN];
  char logpath[MAX_FILE_PATH_LEN];

printf("begin uf1\n");
  /* Initialize some variables */

  strcpy((char *) lname.arr, "tpcd/tpcd");
  lname.len = strlen((char *)lname.arr);

  /* get the signal handler for the pause() */
  /* signal(SIGUSR1, wakeup);               */
```

Appendix E

```
  if ((argc > 8) || (argc < 5)) {
    usage();
  }

  /* argv[1] -- Set ID */

  if ((set_id = atoi(argv[1])) < 0 ) {
    usage();
    exit(-1);
  }

  /* argv[2] -- Run ID */

  run_id  = atoi(argv[2]);

  /* argv[3] -- Process Number */

  proc_no = atoi(argv[3]);

  /* argv[4] -- Scale Factor */

  sf = atof(argv[4]);

  /* Process  optional parameters */

  argc -= 4;
  argv += 4;

  while(--argc) {
    ++argv;
    switch(argv[0][0]) {
    case 'u':
      strncpy((char *) lname.arr, ++(argv[0]), UNAME_LEN);
      lname.len = strlen((char *)lname.arr);
      if (strchr((char *) lname.arr, '/') == NULL) {
            fprintf(stderr, "Login name must be in the format of
userid/passwd\n");
            usage();
            exit(-1);
      }
      break;
    case 'f':
      sprintf(logpath,"%s/tpcd%d.st%d.p%d.log", ++(argv[0]), run_id,
set_id, proc_no);
      break;
    case 'r':
      recover = 1;
      break;
    default:
      fprintf(stderr, "Unknown argument %s\n", argv[0]);
      usage();
      break;
    }
  }

  /* We cannot communicate back to the driver in a real run */

#ifdef DEBUG
  if ( (logfile = fopen(logpath,"a")) == NULL ) {
    fprintf(stderr,"Unable to open file '%s'\n", logpath);
    fprintf(stderr,"%s: %s\n", logpath, strerror(errno));
    exit(-1);
  }
#endif /* DEBUG */

  /* The input files by default should be located */
  /* in $TPCD/update/data.                        */

  if (!recover) {
    sprintf(ordpath, "%s/order.tbl.u%d.%d",
                getenv("UPDATE_DIR"), set_id, proc_no);
    sprintf(itempath, "%s/lineitem.tbl.u%d.%d",
                getenv("UPDATE_DIR"), set_id, proc_no);
  } else {
    sprintf(ordpath, "%s/rorder.tbl.u%d.%d",
                getenv("UPDATE_DIR"), set_id, proc_no);
    sprintf(itempath, "%s/rlineitem.tbl.u%d.%d",
                getenv("UPDATE_DIR"), set_id, proc_no);
  }

  /* open those files */

  if ( (ordfile = fopen(ordpath,"r")) == NULL ) {
    fprintf(stderr,"Unable to open file '%s'\n", ordpath);
    fprintf(stderr,"%s: %s\n", ordpath, strerror(errno));
    exit(-1);
  }

  if ( (itemfile = fopen(itempath,"r")) == NULL ) {
    fprintf(stderr,"Unable to open file '%s'\n", itempath);
    fprintf(stderr,"%s: %s\n", itempath, strerror(errno));
    exit(-1);
  }

#ifdef DEBUG
  fprintf(logfile,"\t\tTiming Interval for Update Function 1\n");
  fprintf(logfile,"\t\t^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^\n\n");
  fprintf(logfile,"Query # \t Start time \t End time \t Elapsed
Time\n");
  fprintf(logfile,"------- \t ---------- \t -------- \t ------------
\n");
#endif /* DEBUG */

  /*  Establish sql_error() as the error handler. */

  EXEC SQL WHENEVER SQLERROR DO sql_error();

  /* Connect to ORACLE.  Program will call sql_error()
     if an error occurs in connecting to the default database. */
printf("attempting to connect to Oracle with %s\n",lname.arr);

  EXEC SQL CONNECT :lname;

#ifdef DEBUG
  printf("\nConnected to ORACLE as user: %s\n\n", lname.arr);
#endif /* DEBUG */

  /* To be added later on.                                      */
  /* The process now sits there and wait for a signal to start. */
  /* That signal is SIGUSR1.  The driver script should send it. */
  /* This is used as a sychronization mechanism.                */

  /* start doing the update */

#ifdef DEBUG
  tr_start = gettime();
#endif /* DEBUG */

  notdone = 1;   /* just in case */

  /* Need to get the first row from the lineitem input file first. */
  /* Yeah, I know it is not as elegant, but it works for now.      */

  if (fgets(itemline, LSIZE, itemfile) == NULL) {
    fprintf(stderr, "Error: Unable to open LINEITEM input file %s!\n",
                    itempath);
    fflush(stderr);
    exit(-1);
  }

  while (notdone) {
    ordcnt = 0;
    linecnt = 0;

    /* Perform inserts to ORDERS first, but do not COMMIT until the
end */

    if ((ordcnt = get_ord_line()) < MAX_ORD_INSERTS) {
           notdone = 0;
      }

    /* Get all the rows from LINEITEM that corresponds to the set   */
    /* of ORDERKEYs.                                                */
    /* Perform inserts to LINEITEM, but do not COMMIT until the end */

    linecnt = get_item_line(ordcnt);

    if (ordcnt != 0) {
      err = 1;
      EXEC SQL FOR :ordcnt INSERT INTO orders VALUES
            (TO_DATE(:o_odate,'YYYY-MM-DD'), :o_okey, :o_ckey,
:o_opri,:o_spri,
          :o_clk, :o_ostat, :o_tprice, :o_cmnt);
    }
    orows += ordcnt;

    if (linecnt != 0) {
      err = 1;
      EXEC SQL FOR :linecnt INSERT INTO lineitem VALUES
            (TO_DATE(:l_sdate,'YYYY-MM-DD'), :l_okey, :l_disc,:
l_eprice,
          :l_skey, :l_quan, :l_rflag, :l_pkey, :l_lstat, :l_tax,
          TO_DATE(:l_cdate,'YYYY-MM-DD'), TO_DATE(:l_rdate,'YYYY-MM-
DD'),
          :l_smode, :l_lnum, :l_sinst,  :l_cmnt);
    }
    lrows += linecnt;

    /* Perform the Commit for this sub-transaction. */
    EXEC SQL COMMIT WORK;
  }

  /* end of this update function */

  if(recover) {
    printf("%d ORDERS row%c processed.\n", orows, orows == 1 ? '\0' :
's');
    printf("%d LINEITEM row%c processed.\n", lrows, lrows == 1 ? '\0'
: 's');
  }

#ifdef DEBUG
  tr_end = gettime();
  printf("Ended Update Function 1 Process %d at %f\n", proc_no,
tr_end);
  printf("%d ORDERS row%c processed.\n", orows, orows == 1 ? '\0' :
's');
  printf("%d LINEITEM row%c processed.\n", lrows, lrows == 1 ? '\0' :
's');
  fprintf(logfile,"\n\n%d ORDERS row%c processed.\n", orows,
              orows == 1 ? '\0' : 's');
  fprintf(logfile,"\n\n%d LINEITEM row%c processed.\n", lrows,
              lrows == 1 ? '\0' : 's');
  printf("Executed Update Function 1 Process %d in %f\n",
           proc_no, (tr_end - tr_start));
  fprintf(logfile,"%d\t\t%f\t%f\t  %f\n", proc_no,
                tr_start,tr_end,(tr_end - tr_start));
  fprintf(logfile,"\n---------------------------------------\n");
  fprintf(stdout,"\n---------------------------------------\n");
  fflush(logfile);
  fclose(logfile);
#endif /* DEBUG */

  EXEC SQL WHENEVER SQLERROR CONTINUE;

  /*  Disconnect from ORACLE. */

  EXEC SQL COMMIT WORK RELEASE;
  EXEC SQL WHENEVER SQLERROR DO sql_error();
  fclose(ordfile);
  fclose(itemfile);
  exit(0);
}


int get_ord_line () {

  int i;
  int rcnt = 0;
  char *pos1, *pos2;
  char line[LINESIZE];

  for (i=0; i<MAX_ORD_INSERTS; i++) {
    if (fgets(line, LSIZE, ordfile) == NULL) {
      return (i);
    }

    /* extract columns from the line                    */
    /* Can't use fscanf here because the delimiter is | */

    pos1 = nextpos(line);
    o_okey[i] = atol(line);

    pos2 = nextpos(pos1);
    o_ckey[i] = atol(pos1);
    pos1 = pos2;

    pos2 = nextpos(pos1);
    strcpy ((char *) o_ostat[i].arr, pos1);
    o_ostat[i].len = strlen((char *) o_ostat[i].arr);
    pos1 = pos2;

    pos2 = nextpos(pos1);
    o_tprice[i] = atof(pos1);
    pos1 = pos2;
```

```
    pos2 = nextpos(pos1);
    strcpy((char *) o_odate[i].arr, pos1);
    o_odate[i].len = strlen((char *) o_odate[i].arr);
    pos1 = pos2;

    pos2 = nextpos(pos1);
    strcpy((char *) o_opri[i].arr, pos1);
    o_opri[i].len = strlen((char *) o_opri[i].arr);
    pos1 = pos2;

    pos2 = nextpos(pos1);
    strcpy((char *) o_clk[i].arr, pos1);
    o_clk[i].len = strlen((char *) o_clk[i].arr);
    pos1 = pos2;

    pos2 = nextpos(pos1);
    o_spri[i] = atoi(pos1);
    pos1 = pos2;

    pos2 = nextpos(pos1);
    strcpy((char *) o_cmnt[i].arr, pos1);
    o_cmnt[i].len = strlen((char *) o_cmnt[i].arr);
    pos1 = pos2;
  }
  return (MAX_ORD_INSERTS);
}


int get_item_line (rowcnt)
     int rowcnt;
{

  int i=0, j;             /* at least one row will be scanned */
  char *pos1, *pos2;
  int notyet = 1;
  int okey;

  /* for each orderkey, extract the corresponding rows in LINEITEM */

  for (j=0; j<rowcnt; j++) {

    /* the first row should have been scanned here by now */
    /* either from the main program or from the previous  */
    /* invokation of this function                        */

    notyet = 1;

    while (notyet) {

      /* extract columns from the line */

      pos1 = nextpos(itemline);
      okey = atol(itemline);

      /* Compare the ORDERKEY values */

      if (okey == o_okey[j]) {

            l_okey[i] = okey;

            pos2 = nextpos(pos1);
            l_pkey[i] = atol(pos1);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            l_skey[i] = atol(pos1);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            l_lnum[i] = atoi(pos1);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            l_quan[i] = atof(pos1);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            l_eprice[i] = atof(pos1);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            l_disc[i] = atof(pos1);

            pos1 = pos2;

            pos2 = nextpos(pos1);
            l_tax[i] = atof(pos1);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            strcpy((char *) l_rflag[i].arr, pos1);
            l_rflag[i].len = strlen((char *) l_rflag[i].arr);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            strcpy((char *) l_lstat[i].arr, pos1);
            l_lstat[i].len = strlen((char *) l_lstat[i].arr);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            strcpy((char *) l_sdate[i].arr, pos1);
            l_sdate[i].len = strlen((char *) l_sdate[i].arr);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            strcpy((char *) l_cdate[i].arr, pos1);
            l_cdate[i].len = strlen((char *) l_cdate[i].arr);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            strcpy((char *) l_rdate[i].arr, pos1);
            l_rdate[i].len = strlen((char *) l_rdate[i].arr);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            strcpy((char *) l_sinst[i].arr, pos1);
            l_sinst[i].len = strlen((char *) l_sinst[i].arr);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            strcpy((char *) l_smode[i].arr, pos1);
            l_smode[i].len = strlen((char *) l_smode[i].arr);
            pos1 = pos2;

            pos2 = nextpos(pos1);
            strcpy((char *) l_cmnt[i].arr, pos1);
            l_cmnt[i].len = strlen((char *) l_cmnt[i].arr);
            pos1 = pos2;
      } else {

        /* reset so that we won't run into seg faults */

        itemline[strlen(itemline)] = '|';
            break;
      }

      /* increments array index */
      i++;

      /* get next line, if failed, return */
      if (fgets(itemline, LSIZE, itemfile) == NULL) {
            return(i);
      }
    }
  }

  return (i);
}

char *nextpos(start)
     char *start;
{
  char *mark = strchr(start,'|');

  *mark = '\0';
  mark++;

  return (mark);
}


void wakeup() {
  return;
}
```

uf2_del.pc

```
/*=================================================================+
 |       Copyright (c) 1995  Oracle Corp, Redwood Shores, CA       |
 |                    OPEN SYSTEMS PERFORMANCE GROUP               |
 |                       All Rights Reserved                       |
 +=================================================================+
 | FILENAME
 |    uf1_del.pc
 | DESCRIPTION
 |    TPC-D benchmark uf2 driver, PRO*C version
 |    Also used to restore uf1.
 | MODIFIED
 |    pswong    03/30/96 - polished version
 |    pswong    06/13/95 - version 2
 |    pswong            06/07/95 - created
 +=================================================================*/

#include <stdio.h>
#include <string.h>
#include <setjmp.h>
/*#include <sys/param.h>*/
#include <errno.h>
#include <math.h>
#include <string.h>
#include <signal.h>
/*#include <unistd.h>*/
#include <stdlib.h>

#include "shared.h"

#define MAX_FILE_PATH_LEN 256
#define LINESIZE 256
#define LSIZE (LINESIZE-1)
#define UNAME_LEN 32

/* max length of SQL statement */

#define SQL_LEN 4096

/* Didn't use bind variables because Oracle will perform FTS with the
*/
/* DELETE statement as it cannot estimate the key range of the BETWEEN
*/
/* statement.
*/

/* We need so many different statement types to avoid cases like
*/
/* L_ORDERKEY BETWEEN x AND x which was known to have problems.
*/

#define DELO_TXT1 "DELETE FROM ORDERS WHERE O_ORDERKEY BETWEEN %ld AND
%ld "
#define DELL_TXT1 "DELETE FROM LINEITEM WHERE L_ORDERKEY BETWEEN %ld
AND %ld "
#define DELO_TXT2 "DELETE FROM ORDERS WHERE O_ORDERKEY = %ld "
#define DELL_TXT2 "DELETE FROM LINEITEM WHERE L_ORDERKEY = %ld "
#define EQO_TXT "OR O_ORDERKEY = %ld "
#define EQL_TXT "OR L_ORDERKEY = %ld "
#define DEL_LEN 80   /* a little larger than it's necessary for safety
sake */
#define BTWO_TXT "OR O_ORDERKEY BETWEEN %ld AND %ld "
#define BTWL_TXT "OR L_ORDERKEY BETWEEN %ld AND %ld "
#define BTW_LEN 50   /* also a little large than necessary */

/* batch size for inserts                                          */
/* This is the number of BETWEEN statements that can fit in the SQL */
/* statement.  The -1 in the end is just for safety.               */

#define MAX_INS ((SQL_LEN - DEL_LEN) / BTW_LEN - 1)
#define MAX_INSERTS ((getenv("MAX_DELETE") == NULL) ? 2 :
((atoi(getenv("MAX_DELETE")) > MAX_INS) ? MAX_INS :
atoi(getenv("MAX_DELETE"))))

/* The frequency of commits.  Default is to commit every 4 times. */

#define     COMMIT_FREQ 4
```

Appendix E

```
/* Include the SQL Communications Area. */

#include <sqlca.h>

/* Inclde the Oracle Communication Area */

EXEC SQL INCLUDE oraca;
EXEC ORACLE OPTION (ORACA=YES);

extern double gettime();

/* Declare error handling functions */

void sql_error();
void usage();
int get_ord_line();
void wakeup();

#ifndef NULL
#define NULL 0
#endif

/* structures to store query results */
/* typedefs in query.h               */

EXEC SQL BEGIN DECLARE SECTION;

varchar     sqlstmt[4096]; /*SQL_LEN];*/     /* the delete statement
for orders */
varchar     sqlstmt2[4096]; /*SQL_LEN];*/    /* the delete statement
for lineitem */
VARCHAR     lname[32]; /*UNAME_LEN];*/   /* username/passwd combo */

int rowcnt = 0;    /* used to specify the number of rows for array
inserts */

EXEC SQL END DECLARE SECTION;

int set_id;               /* set_id, global within the driver    */
int run_id;               /* run_id, global                      */
int proc_no;              /* process number, global              */
int u_flag=2;             /* usage flag, global                  */
double sf = 1.0;          /* scale_factor, global                */

FILE *ordfile;            /* flatfile for ORDERS                 */


/* usage: prints the usage of the program */

void usage() {

  fprintf(stderr,"\nUsage: uf2[st]t <set_id> <run_id> <proc_no> <scale
factor> <usage flag> [u<uid/passwd>] \n\n");
  fprintf(stderr,"       set_id                :the set id for this
update set\n");
  fprintf(stderr,"       run_id                :the run id for this
TPCD run\n");
  fprintf(stderr,"       proc_no               :the process number
within this update stream\n");
  fprintf(stderr,"       scale factor          :scale factor for the
run\n\n");
  fprintf(stderr,"       usage flag            :enter 1 for uf2 and 2
for restoring uf1\n\n");
  fprintf(stderr,"       u<uid/passwd>         :Username/Password
string - default is tcpd/tpcd\n\n");
  exit(-1);
}


void sql_error()
{

  /* ORACLE error handler */
  fprintf (stderr, "Error: error encountered in Oracle!\n");
  fprintf (stderr, "\n\n%.70s\n",sqlca.sqlerrm.sqlerrmc);
  fflush (stderr);

  EXEC SQL WHENEVER SQLERROR CONTINUE;
  EXEC SQL ROLLBACK WORK;
  exit(1);

}



void main(argc,argv)
int argc;
char *argv[];
{

  int orows = 0;
  int lrows = 0;
  int o, l;
  int notdone = 1;
  int num_exec = 0;
  /* int err = 0; */
  char ordpath[MAX_FILE_PATH_LEN];

  /* Initialize some variables */
printf("Begin uf2\n");

  strcpy((char *) lname.arr, "tpcd/tpcd");
  lname.len = strlen((char *)lname.arr);

  /* signal(SIGUSR1, wakeup); */

  if ((argc > 7) || (argc < 6)) {
    usage();
  }

  /* argv[1] -- Set ID */

  if ((set_id  = atoi(argv[1])) < 0 ) {
    usage();
    exit(-1);
  }

  /* argv[2] -- Run ID */

  run_id  = atoi(argv[2]);

  /* argv[3] -- Process Number */

  proc_no = atoi(argv[3]);

  /* argv[4] -- Scale Factor */

  sf = atof(argv[4]);

  /* argv[5] -- Filename prefix for orderkeys    */
  /* The input file by default should be located */
  /* in $TPCD/update/data.                       */

  u_flag = atoi(argv[5]);

  switch(u_flag) {
  case 1:
    sprintf(ordpath, "%s/delete.%d.%d",
                getenv("UPDATE_DIR"), set_id, proc_no);
    break;
  case 2:
    sprintf(ordpath, "%s/okey.u%d.%d",
                getenv("UPDATE_DIR"), set_id, proc_no);
    break;
  default:
    fprintf(stderr, "Illegal usage flag!\n");
    exit(-1);
  }
printf("ordpath is %s\n",ordpath);

  /* Process  optional parameters */

  argc -= 5;
  argv += 5;

  while(--argc) {
    ++argv;
    switch(argv[0][0]) {
    case 'u':
      strncpy((char *) lname.arr, ++(argv[0]), UNAME_LEN);
      lname.len = strlen((char *)lname.arr);
      if (strchr((char *) lname.arr, '/') == NULL) {
            fprintf(stderr, "Login name must be in the format of
userid/passwd\n");
            usage();
            exit(-1);
      }
      break;
    default:
      fprintf(stderr, "Unknown argument %s\n", argv[0]);
      usage();
      break;
    }
  }

  /* open the files */

  if ( (ordfile = fopen(ordpath,"r")) == NULL ) {
    fprintf(stderr,"Unable to open file '%s'\n", ordpath);
    fprintf(stderr,"%s: %s\n", ordpath, strerror(errno));
    exit(-1);
  }

  /*  Establish sql_error() as the error handler. */

  EXEC SQL WHENEVER SQLERROR DO sql_error();

  /* Connect to ORACLE.  Program will call sql_error()
     if an error occurs in connecting to the default database. */

  EXEC SQL CONNECT :lname;

#ifdef DEBUG
  printf("\nConnected to ORACLE as user: %s\n\n", lname.arr);
#endif /* DEBUG */

  /* pause(); */

  /* start the restore from uf1 */

  /* delete from ORDERS, hold the commit */

  notdone = 1;   /* just in case */

  while (notdone) {
    rowcnt = 0;
    if ((rowcnt = get_ord_line()) < MAX_INSERTS) {
            notdone = 0;
      }

    sqlstmt.len = strlen((char *)sqlstmt.arr);
    sqlstmt2.len = strlen((char *)sqlstmt2.arr);

    /* Execute the deletes, hold commit */

    if (rowcnt != 0) {
printf("exec sql statement %s\n",sqlstmt.arr);
      EXEC SQL EXECUTE IMMEDIATE :sqlstmt;
      o = sqlca.sqlerrd[2];
printf("exec sql statement %s\n",sqlstmt2.arr);
      EXEC SQL EXECUTE IMMEDIATE :sqlstmt2;
      l = sqlca.sqlerrd[2];
    }

    /* Commit once in a while */

    if (!((++num_exec)%COMMIT_FREQ)) {
      EXEC SQL COMMIT WORK;
    }

    orows += o;
    lrows += l;

  }

  /* COMMIT all deletes */

  EXEC SQL COMMIT WORK;
  EXEC SQL WHENEVER SQLERROR DO sql_error();

  /* Print the number of rows processed when we are recovering */

  if (u_flag == 2) {
    fprintf(stdout, "%d row%s deleted from ORDERS\n", orows,
                (orows == 1 ? "\0" : "s"));
    fprintf(stdout, "%d row%s deleted from LINEITEM\n", lrows,
                (orows == 1 ? "\0" : "s"));
  }

#ifdef DEBUG
  fprintf(stdout, "%d row%s deleted from ORDERS\n", orows,
              (orows == 1 ? "\0" : "s"));
  fprintf(stdout, "%d row%s deleted from LINEITEM\n", lrows,
              (orows == 1 ? "\0" : "s"));
#endif /* DEBUG */
```

```
printf("%d row%s deleted from ORDERS\n",orows,(orows == 1 ? "\0" :
"s"));
printf("%d row%s deleted from LINEITEM\n",lrows,(orows == 1 ? "\0" :
"s"));

  /* end of the restore */

  EXEC SQL WHENEVER SQLERROR CONTINUE;

  /*  Disconnect from ORACLE. */

  EXEC SQL COMMIT WORK RELEASE;
  EXEC SQL WHENEVER SQLERROR DO sql_error();
  fclose(ordfile);
  exit(0);
}


int get_ord_line (void) {

  int i;
  int rcnt = 0;
  long ord1, ord2;
  char *pos1;
  char line[LINESIZE];
  char o_stmt[BTW_LEN];
  char l_stmt[BTW_LEN];

printf("begin get_ord_line\n");
fflush(stdout);
  for (i=0; i<MAX_INSERTS; i++) {
    if (fgets(line, LSIZE, ordfile) == NULL) {
      return (i);
    }

printf("line is %s\n",line);
fflush(stdout);
    /* extract columns from the line */

    pos1 = strchr((char *) line, '|');
    *pos1 = '\0';
    pos1++;
    ord1 = atol(line);
    *(strchr((char *) pos1, '|')) = '\0';
    ord2 = atol(pos1);

printf("i = %d i is either 0 or not\n",i);
fflush(stdout);
    if (i == 0) {
      /* prepare statement for ORDERS and LINEITEM */
printf("ord1 is %d ord2 is %d\n",ord1,ord2);
fflush(stdout);
      if (ord1 == ord2) {
            sprintf((char *) sqlstmt.arr, DELO_TXT2, ord1);
            sprintf((char *) sqlstmt2.arr, DELL_TXT2, ord1);
      } else {
            sprintf((char *) sqlstmt.arr, DELO_TXT1, ord1, ord2);
            sprintf((char *) sqlstmt2.arr, DELL_TXT1, ord1, ord2);
      }
    } else {
      /* add next BETWEEN statement for ORDERS and LINEITEM */
printf("ord1 is %d ord2 is %d\n",ord1,ord2);
fflush(stdout);
      if (ord1 == ord2) {
            sprintf(o_stmt, EQO_TXT, ord1, ord2);
            strcat((char *) sqlstmt.arr, o_stmt);
            sprintf(l_stmt, EQL_TXT, ord1, ord2);
            strcat((char *) sqlstmt2.arr, l_stmt);
      } else {
            sprintf(o_stmt, BTWO_TXT, ord1, ord2);
            strcat((char *) sqlstmt.arr, o_stmt);
            sprintf(l_stmt, BTWL_TXT, ord1, ord2);
            strcat((char *) sqlstmt2.arr, l_stmt);
      }
    }

  }
printf("end get_ord_line\n");
fflush(stdout);
  return (MAX_INSERTS);
}


void wakeup() {
   return;
}
```

runuf1.sh

```
#!/bin/sh
#
#=====================================================================+
#         Copyright (c) 1995  Oracle Corp, Redwood Shores, CA         |
#                     OPEN SYSTEM PERFORMANCE GROUP                   |
#                          All Rights Reserved                        |
#=====================================================================+
# FILENAME
#    runuf1.sh
# DESCRIPTION
#    runuf1.sh -l [<path name for reports>] -u [<uid/passwd>]
#              -p [<program>] <run_id> <scale factor> <pair number>
#              <parallelism>
# USAGE
#    To execute UF1.
#=====================================================================

O=${TPCD_UPDATE_DATA}
TPCD_DIR=${O}/tpcd
SCRIPT_DIR=${TPCD_DIR}/update/scripts
GTIME_DIR=${TPCD_DIR}/source
GTIME=${GTIME_DIR}/gtime

usage() {
echo ""
echo "runuf1.sh -l [<path name for reports>] -u [<uid/passwd>]"
echo "          -h <run_id> <scale factor> <pair number>"
echo "          <parallelism>"
echo ""
echo "run_id       : Run_ID of this update run."
echo "scale factor : Scale Factor of the database."
echo "set number   : The update pair number that this update function
belongs to."
echo "parallelism  : The parallelism of the updates."
echo ""
echo "-l           : Path name for reports on the update function.
Debug use for UF1 only"
echo "-u           : Userid/Password for Oracle. Default is
tpcd/tpcd."
echo "-h           : To Display this message."
echo ""
}


LOGPATH=.
PASSWD="tpcd/tpcd"

set -- `getopt "l:u:h" "$@"` || usage

while :
do
   case "$1" in
   -u) shift; PASSWD=$1;;
   -l) shift; LOGPATH=$1;;
   -h) usage; exit 0;;
   --) shift; break;;
   esac
   shift;
done

if [ $# -lt 4 ]
then
   usage
   exit 1
fi


RUN_ID=$1
SF=$2
SETNUM=$3
PAR=$4

if [ ${SF} -eq 0 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/tenthgig
LOG_DIR=${TPCD_DIR}/update/log/tenthgig
DBF_DIR=\\TPCD\\DBS\\TENTHGIG
fi

if [ ${SF} -eq 1 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/onegig
LOG_DIR=${TPCD_DIR}/update/log/onegig
DBF_DIR=\\TPCD\\DBS\\ONEGIG
fi

if [ ${SF} -eq 3 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/threegig
LOG_DIR=${TPCD_DIR}/update/log/threegig
DBF_DIR=\\TPCD\\DBS\\THREEGIG
fi

if [ ${SF} -eq 10 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/tengig
LOG_DIR=${TPCD_DIR}/update/log/tengig
DBF_DIR=\\TPCD\\DBS\\TENGIG
fi

if [ ${SF} -eq 30 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/thirtygig
LOG_DIR=${TPCD_DIR}/update/log/thirtygig
DBF_DIR=\\TPCD\\DBS\\THIRTYGIG
fi

if [ ${SF} -eq 100 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/hundgig
LOG_DIR=${TPCD_DIR}/update/log/hundgig
DBF_DIR=\\TPCD\\DBS\\HUNDGIG
fi

if [ ${SF} -eq 300 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/threehundgig
LOG_DIR=${TPCD_DIR}/update/log/threehundgig
DBF_DIR=\\TPCD\\DBS\\THREEHUNDGIG
fi

if [ ${SF} -eq 1000 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/onetbyte
LOG_DIR=${TPCD_DIR}/update/log/onetbyte
DBF_DIR=\\TPCD\\DBS\\ONETBYTE
fi


i=1
PID=""

# Let's figure out the extent sizes in Mb
LINEEXT=`echo $SF '* 720 * 0.001 / ' $PAR + 1 | bc`
LINEEXT=`echo $LINEEXT | sed '/\.[0123456789]*/s///'`
ORDEXT=`echo $SF '* 200 * 0.001 / ' $PAR + 1 | bc`
ORDEXT=`echo $ORDEXT | sed '/\.[0123456789]*/s///'`

# perform the update function 1

START=`$GTIME`

# first create the temp tables

$SQLPLUS $PASSWD <<!

drop table temp_item;
create table temp_item (
    l_shipdate          date ,
    l_orderkey          number,
    l_discount          number ,
    l_extendedprice     number ,
```

Appendix E

```
    l_suppkey            number,
    l_quantity           number ,
    l_returnflag         char(1) ,
    l_partkey            number,
    l_linestatus         char(1) ,
    l_tax                number,
    l_commitdate         date ,
    l_receiptdate        date ,
    l_shipmode           varchar(10) ,
    l_linenumber         number,
    l_shipinstruct       varchar(25) ,
    l_comment            varchar(44)
)
pctfree 1
pctused 99
tablespace ts_s
storage (initial 1m next ${LINEEXT}m pctincrease 0)
parallel (degree 40 instances 1)
nologging;

drop table temp_ord;
create table temp_ord (
    o_orderdate          date ,
    o_orderkey           number,
    o_custkey            number,
    o_orderpriority      varchar(15) ,
    o_shippriority       number ,
    o_clerk              varchar(15) ,
    o_orderstatus        char(1) ,
    o_totalprice         number ,
    o_comment            varchar(79)
)
pctfree 1
pctused 99
tablespace ts_s
storage (initial 1m next ${ORDEXT}m pctincrease 0)
parallel (degree 40 instances 1)
nologging;

exit;
!

while [ $i -le $PAR ]
do

# Kick off sqlldr to load the data into the temporary staging tables.

   FN=`expr $i - 1`
   FN=`expr $FN % 64`
   FN=`expr $FN + 1`
   DRVN= awk -v a="$i" -v b="$TS_S_DRVS" 'BEGIN {printf
"%s",substr(b,a,1)}'`

   $SQLLDR userid=$PASSWD control=${SCRIPT_DIR}/tempitem.ctl \
   log=${LOG_DIR}/ti${i}_uf1.log \
   data=${UPDATE_DIR}/lineitem.tbl.u${SETNUM}.${i} \
   direct=true parallel=true \
   FILE=${DRVN}:${DBF_DIR}\\TS_S_${FN}.DBF &

   $SQLLDR userid=$PASSWD control=${SCRIPT_DIR}/tempord.ctl \
   log=${LOG_DIR}/to${i}_uf1.log \
   data=${UPDATE_DIR}/order.tbl.u${SETNUM}.${i} \
   direct=true parallel=true \
   FILE=${DRVN}:${DBF_DIR}\\TS_S_${FN}.DBF &

   i=`expr $i + 1`

done

# All sqlldr processes have started, now wait for all them to finish.

wait

# now do the insert and then drop the staging tables

$SQLPLUS $PASSWD <<!

spool runuf1.log
set timing on;
alter session force parallel dml;

analyze table temp_ord estimate statistics sample 1000 rows;
analyze table temp_item estimate statistics sample 1000 rows;

insert /*+ PARALLEL(lineitem,20) */
into lineitem (select /*+ PARALLEL(temp_item,2) */ * from temp_item);

insert /*+ PARALLEL(orders,20) */
into orders (select /*+ PARALLEL(temp_ord,2) */ * from temp_ord);

commit;

drop table temp_item;
drop table temp_ord;
spool off
exit;
!

END=`$GTIME`

# Done

echo ""
echo "Update Function 1 Set $SETNUM done!"
echo "Elapsed Time is `echo $END - $START | bc`"
echo ""
```

runuf2.sh

```
#!/bin/sh
#
#+=================================================================+
#        Copyright (c) 1995  Oracle Corp, Redwood Shores, CA       |
#                    OPEN SYSTEM PERFORMANCE GROUP                 |
#                         All Rights Reserved                      |
#+=================================================================+
# FILENAME
#    runuf2.sh
# DESCRIPTION
#    runuf2.sh [-u <uid/passwd to login>] [-p <program>] <run_id>
#              <scale factor> <pair number> <parallelism>
# USAGE
#    To execute UF2.
#===================================================================
O=${TPCD_UPDATE_DATA}
TPCD_DIR=$O/tpcd
SCRIPT_DIR=${TPCD_DIR}/update/scripts
GTIME_DIR=${TPCD_DIR}/source
GTIME=${GTIME_DIR}/gtime

usage() {
echo ""
echo "runuf2.sh [-u <user/passwd>] <run_id> <scale factor> <pair number>
<parallelism>"
echo ""
echo "run_id       : Run_ID of this update run."
echo "scale factor : Scale Factor of the database."
echo "set number   : The update pair number that this update function
belongs to."
echo "parallelism  : The parallelism of the updates."
echo ""
echo "-u           : Userid/Password for Oracle. Default is tpcd/tpcd"
echo "-h           : To Display this message."
echo ""
}

PASSWD="tpcd/tpcd"

set -- `getopt "u:h" "$@"` || usage

while :
do
   case "$1" in
   -u) shift; PASSWD=$1;;
   -h) usage; exit 0;;
   --) shift; break;;
   esac
   shift;
done

if [ $# -lt 4 ]
then
   usage
   exit 1
fi

RUN_ID=$1
SF=$2
SETNUM=$3
PAR=$4

if [ ${SF} -eq 0 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/tenthgig
LOG_DIR=${TPCD_DIR}/update/log/tenthgig
DBF_DIR=\\TPCD\\DBS\\TENTHGIG
fi

if [ ${SF} -eq 1 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/onegig
LOG_DIR=${TPCD_DIR}/update/log/onegig
DBF_DIR=\\TPCD\\DBS\\ONEGIG
fi

if [ ${SF} -eq 3 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/threegig
LOG_DIR=${TPCD_DIR}/update/log/threegig
DBF_DIR=\\TPCD\\DBS\\THREEGIG
fi

if [ ${SF} -eq 10 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/tengig
LOG_DIR=${TPCD_DIR}/update/log/tengig
DBF_DIR=\\TPCD\\DBS\\TENGIG
fi

if [ ${SF} -eq 30 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/thirtygig
LOG_DIR=${TPCD_DIR}/update/log/thirtygig
DBF_DIR=\\TPCD\\DBS\\THIRTYGIG
fi

if [ ${SF} -eq 100 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/hundgig
LOG_DIR=${TPCD_DIR}/update/log/hundgig
DBF_DIR=\\TPCD\\DBS\\HUNDGIG
fi

if [ ${SF} -eq 300 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/threehundgig
LOG_DIR=${TPCD_DIR}/update/log/threehundgig
DBF_DIR=\\TPCD\\DBS\\THREEHUNDGIG
fi

if [ ${SF} -eq 1000 ]
then
UPDATE_DIR=${TPCD_DIR}/update/data/onetbyte
LOG_DIR=${TPCD_DIR}/update/log/onetbyte
DBF_DIR=\\TPCD\\DBS\\ONETBYTE
fi


i=1
PID=""

START=`$GTIME`

# first create the temp tables

$SQLPLUS $PASSWD <<!
```

Appendix E

```
drop table temp_okey;
create table temp_okey (
    t_orderkey           number
)
pctfree 1
pctused 99
tablespace ts_s
storage (initial 64k next 1m pctincrease 0)
parallel (degree 40 instances 1)
nologging;

exit;
!

# All processes have started, now wait for all the update processes to
finish.

wait

while [ $i -le $PAR ]
do

  FN=`expr $i - 1`
  FN=`expr $FN % 64`
  FN=`expr $FN + 1`
  DRVN=`awk -v a="$i" -v b="$TS_S_DRVS" 'BEGIN {printf
"%s",substr(b,a,1)}'`

  $SQLLDR userid=$PASSWD control=${SCRIPT_DIR}/tempokey.ctl \
  log=${LOG_DIR}/ti${i}_uf2.log \
  data=${UPDATE_DIR}/delete.${SETNUM}.${i} \
  direct=true parallel=true \
  FILE=${DRVN}:${DBF_DIR}\\TS_S_${FN}.DBF &

  i=`expr $i + 1`
done

wait

$SQLPLUS $PASSWD <<!

spool runuf2.log;
set timing on;
analyze table temp_okey estimate statistics sample 1000 rows;
alter session force parallel dml;

delete /*+ PARALLEL(orders,20) INDEX(ORDERS, O_OP) */
from orders where o_orderkey in
(select /*+ PARALLEL(temp_okey,20) */ * from temp_okey);

delete /*+ PARALLEL(lineitem,20) INDEX(LINEITEM, L_ORED) */
from lineitem where l_orderkey in
(select /*+ PARALLEL(temp_okey,20) */ * from temp_okey);

commit;

drop table temp_okey;
spool off;
exit;
!

END=`$GTIME`

# Done

echo ""
echo "Update Function 2 Set $SETNUM done!"
echo "Elapsed Time is `echo $END - $START | bc`"
echo ""
```

runpower1.sh

```
#!/bin/sh
# ====================================================================+
#         Copyright (c) 1996  Oracle Corp, Redwood Shores, CA        |
#                    OPEN SYSTEMS PERFORMANCE DIVISION               |
#                         All Rights Reserved                        |
# ====================================================================+
#  FILENAME
#     runpower1.sh
#  DESCRIPTION
#     Usage: runpower1.sh [-p <program for query stream>]
#                         [-u1 <program for UF1>] [-u2 <program for
UF2>]
#                         [-o] [-s] [-h] [-u <user/password>]
#                             <scale factor> <update parallelism>
#
#
#     Single stream TPC-D Power Test.
# ====================================================================+

ORACLE_HOME=d:/orant
TPCD_HOME=/tpcd
SCRIPT_DIR=${TPCD_HOME}/scripts
SQL_DIR=${TPCD_HOME}/sql
UPD_DIR=${TPCD_HOME}/update
SRC_DIR=${TPCD_HOME}/source

RUN_ID_FILE=${TPCD_HOME}/r_id

UPD_SQL=${UPD_DIR}/sql
UPD_SPT=${TPCD_HOME}/update/scripts
UPD_SRC=${TPCD_HOME}/update/source
UPD_DAT=${UPD_DIR}/data

TPCD_BIN=${TPCD_HOME}/bin
TPCD_LOG=${TPCD_HOME}/log
TPCD_RPT=${TPCD_HOME}/rpt

OUT=${TPCD_HOME}/out

GTIME=${SRC_DIR}/gtime

DF=/dev/null
HID=1
INTERVAL=60
COUNT=1200

# The defaults

USER="tpcd/tpcd"
QPROG=${SRC_DIR}/qexec.exe

U1PROG=${UPD_SRC}/uf1.exe
U2PROG=${UPD_SRC}/uf2.exe

usage () {

echo " "
echo "Usage: $0 [-p <program for query stream>] [-u1 <program for
UF1>]"
echo "          [-u2 <program for UF2>] [-o] [-s] [-h] [-u
<user/password>]"
echo "                  <scale factor> <update parallelism>"
echo ""
echo "scale factor     : The scale factor of the run."
echo "update ||ism     : The parallelism to use for the UFs."
echo ""
echo "-p <program>     : Program for Query Stream."
echo "                   Default is $QPROG."
echo "-u1 <program>    : Program for UF1."
echo "                   Default is $U1PROG."
echo "-u2 <program>    : Program for UF2."
echo "                   Default is $U2PROG."
echo "-o               : Collect Oracle statistics."
echo "-s               : Collect System statistics."
echo "-u <user/passwd> : User/Password. Default is tpcd/tpcd."
echo "-h               : Displays this message."
}
set -- `getopt "p:u1:u2:u:osh" "$@"` || usage

while :
do
    case "$1" in
    -u1) shift; U1PROG=$1;;
    -u2) shift; U2PROG=$1;;
    -p) shift; QPROG=$1;;
    -o) shift; OSTAT=1;;
    -s) shift; SSTAT=1;;
    -h) usage; exit 0;;
    --) shift; break;;
    esac
#shift;
done

if [ "$#" -ne "2" ]
then
  usage
  exit 1
fi

SF=$1
PARA=$2
THROUGHPUT=1

if [ $SF -eq 1 ]
  then
QRY_DIR=${TPCD_HOME}/queries/q_one_0.sql
INIT_DIR=${TPCD_HOME}/dbs/onegig
elif [ $SF -eq 3 ]
  then
QRY_DIR=${TPCD_HOME}/queries/q_three_0.sql
INIT_DIR=${TPCD_HOME}/dbs/three
elif [ $SF -eq 10 ]
  then
QRY_DIR=${TPCD_HOME}/queries/q_ten_0.sql
INIT_DIR=${TPCD_HOME}/dbs/tengig
elif [ $SF -eq 100 ]
  then
QRY_DIR=${TPCD_HOME}/queries/q_hund_0.sql
INIT_DIR=${TPCD_HOME}/dbs/hundgig
elif [ $SF -eq 300 ]
  then
QRY_DIR=${TPCD_HOME}/queries/q_threehund_0.sql
INIT_DIR=${TPCD_HOME}/dbs/threehund
elif [ $SF -eq 1000 ]
  then
QRY_DIR=${TPCD_HOME}/queries/q_tbyte_0.sql
INIT_DIR=${TPCD_HOME}/dbs/tbyte
fi

export SF PARA THROUGHPUT

#${UPD_SPT}/genuf1.sh 1 ${PARA} ${SF}
#${UPD_SPT}/genuf1.sh -r 1 ${PARA} ${SF}
#${UPD_SPT}/genuf2.sh 1 ${PARA} ${SF}

if [ ! -f $RUN_ID_FILE ]
then
   echo "0" > $RUN_ID_FILE
fi

RUN_ID=`cat $RUN_ID_FILE`
RUN_ID=`expr $RUN_ID + 1`
echo $RUN_ID > $RUN_ID_FILE

echo "TPC-D Power Test Run `date`"
echo "RUNID is $RUN_ID"
echo ""

if [ $OSTAT ]
then
   svrmgr30 @${ORACLE_HOME}/rdbms80/admin/utlbstat
fi

if [ $SSTAT ]
then
    ${TPCD_BIN}/start_ntstat.sh $RUN_ID
fi

START=`$GTIME`
echo "TPC-D Power Test Execution starts at $START"
echo ""
```

Appendix E

```
# Execute UF1

echo "Start UF1 at `date`"

sh ${UPD_SPT}/runuf1.sh -u ${USER} ${RUN_ID} ${SF} 1 ${PARA} \
            > ${OUT}/uf1.${RUN_ID}.${HID} 2>&1

# Execute Query Stream

echo "End UF1. Start Query Stream at `date`"

${QPROG} ${USER} q${QRY_DIR} r${TPCD_RPT}/rpt.${RUN_ID}.${HID} \
            l${OUT}/qs.${RUN_ID}.${HID} 2>&1

# Execute UF2

echo "End Query Stream. Start UF2 at `date`"

sh ${UPD_SPT}/runuf2.sh -u ${USER} ${RUN_ID} ${SF} 1 ${PARA} \
            > ${OUT}/uf2.${RUN_ID}.${HID} 2>&1

echo "END UF2 `date`"

END=`$GTIME`

echo "TPC-D Power Test Execution ends at $END"
echo "Measurement Interval is `echo $END - $START | bc`"
echo ""
echo "-------------------------------------------------"
echo ""
```

```
if [ $OSTAT ]
then
    svrmgr30 @${ORACLE_HOME}/rdbms80/admin/utlestat
    mv report.txt ora_stat_${RUN_ID}.txt
fi

if [ $SSTAT ]
then
    ${TPCD_BIN}/kill_ntstat.sh ${RUN_ID}
    mv report_os.txt sys_stat_${RUN_ID}.txt
fi

echo "-- update function 1" >> ${TPCD_RPT}/rpt.${RUN_ID}.${HID}
awk -f utime.awk ${OUT}/uf1.${RUN_ID}.${HID} >>
${TPCD_RPT}/rpt.${RUN_ID}.${HID}
echo "-- update function 2" >> ${TPCD_RPT}/rpt.${RUN_ID}.${HID}
awk -f utime.awk ${OUT}/uf2.${RUN_ID}.${HID} >>
${TPCD_RPT}/rpt.${RUN_ID}.${HID}
cat ${TPCD_RPT}/rpt.${RUN_ID}.${HID} | awk
'BEGIN{getline;print}{printf"%s\t",$0;getline;print $0;}' >
${TPCD_RPT}/mpinter.${RUN_ID}
cat ${TPCD_RPT}/rpt.${RUN_ID}.${HID} >
${TPCD_RPT}/pt_rpt.${RUN_ID}.${HID}
${TPCD_BIN}/metric ${SF} < ${TPCD_RPT}/rpt.${RUN_ID}.${HID} >>
${TPCD_RPT}/pt_rpt.${RUN_ID}.${HID}
${TPCD_BIN}/metric ${SF} < ${TPCD_RPT}/rpt.${RUN_ID}.${HID} >>
${TPCD_RPT}/mpinter.${RUN_ID}

#rm -f ${TPCD_RPT}/rpt.${RUN_ID}.${HID}
cat ${INIT_DIR}/tkinit.ora >> ${TPCD_RPT}/pt_rpt.${RUN_ID}.${HID}
```

Appendix F: Initial Ten Rows

```
O_ORDERDA O_ORDERKEY O_CUSTKEY  O_ORDERPRIORITY O_SHIPPRIO O_CLERK         O O_TOTALPRI O_COMMENT
--------- ---------- ---------- --------------- ---------- --------------- - ---------- -------------------------------
----------------------------------------------
16-MAR-94     600070    3065861 4-NOT SPECIFIED          0 Clerk#000054498 F  128827.92 B1PwLhCjki44g0 025gnRzAhS AQ MB0
04-MAR-94     600198    2241085 2-HIGH                   0 Clerk#000072411 F  149792.12 13zO7O3m1N5NOw MjxRjQm4lS4
kM3zzO7NQ xLChi M 4P5RyA7wwn23lSAkR ANyk6hyBk6PLjLR
03-MAR-94     600386    2214397 3-MEDIUM                 0 Clerk#000084084 F  143577.43 R7AMNMC 3N62lOl5 2BOjQBzS
47w0g4O
25-MAR-94     600608    2075792 1-URGENT                 0 Clerk#000084636 F  299721.73 lin 71iSSm4iB
Rx56yQL4555wglgBS3Qn3R5i0kM77l 7hwMgwB2R5lj
14-MAR-94     600679    3473629 2-HIGH                   0 Clerk#000054337 F    56068.1 4mNQk2kR 6AwikCNzSQh13zRBiO ik
lM541O1kwnSjh42P2h3C1n
31-MAR-94     600838    5953672 5-LOW                    0 Clerk#000024247 F   72338.76 hhmwg6zCAS7l46Ak
xj1S7NPBlN34giLCn75zR047LkALNmA 6xwjCx1Ri5632A75AMCBRR1z4
22-MAR-94     601190   10142651 2-HIGH                   0 Clerk#000075145 F  193829.68 0hzyLAPiMi3k 57QnzLCh
11-MAR-94     601286   11880113 1-URGENT                 0 Clerk#000082486 F  153549.17 hzOB3Q6jMhBxhmSyNz4CiQO0P7
06-MAR-94     601633   13083533 1-URGENT                 0 Clerk#000015877 F   57313.24 16mk N C3MxkmZ6zLgjAhy7
ORR2g2BAMzh1S
02-MAR-94     602017    1312997 2-HIGH                   0 Clerk#000007383 F   334707.8 COQ15nSg67zP 4kNAk2R1jx6k
10 rows selected.
L_SHIPDAT L_ORDERKEY L_DISCOUNT L_EXTENDED L_SUPPKEY  L_QUANTITY L L_PARTKEY  L L_TAX      L_COMMITD L_RECEIPT
L_SHIPMODE L_LINENUMB L_SHIPINSTRUCT            L_COMMENT
--------- ---------- ---------- ---------- ---------- ---------- - ---------- - ---------- --------- --------- ---------
- ---------- ---------- ------------------------- ---------------------------------------------
06-JUL-98   86657188        .07   29544.48     129932         16 N    7629917 O        .04 20-MAY-98 17-JUL-98 AIR
4 TAKE BACK RETURN         nA3P3z jNgmCB7 whi3yPxh
27-JUL-98   86657318        .02   54610.71      56628         33 N   14556599 O        .05 17-JUN-98 30-JUL-98 REG AIR
5 TAKE BACK RETURN         A430Nw4Cmngk5BChAjkz65h3y5Czj0x42A4NLzSMmSN
09-JUL-98   86657318        .08   52731.36     495590         33 N   12745553 O        .07 18-JUN-98 16-JUL-98 TRUCK
6 NONE                     m3kyAgQ66 34R4
12-JUL-98   86657408        .02    3344.49     240029          3 N    3990025 O        .08 22-AUG-98 06-AUG-98 FOB
2 NONE                     y2RzPQOBAMkQwx7M4ymNCLBCOOQ7 iALiw1NQC
25-JUL-98   86657408        .03      65963     162308         50 N     912307 O        .07 09-AUG-98 21-AUG-98 SHIP
4 TAKE BACK RETURN         5y56lNz4AijSC0N041i7P
30-JUL-98   86657408          0    72444.8     887814         40 N   13137774 O        .08 25-JUN-98 23-AUG-98 MAIL
5 COLLECT COD              57SjC7xBOBjz3m7mgPk2S7x7x2NR3QlA
18-JUL-98   86657602        .05    2977.54     358432          2 N   13358431 O        .01 03-JUL-98 28-JUL-98 TRUCK
2 TAKE BACK RETURN         573RB1w24PwjgNmkMA7kjxCPyh6MzQQ
09-JUL-98   86657603        .06     8077.8     794409          6 N    2044402 O        .02 21-JUN-98 17-JUL-98 SHIP
4 COLLECT COD              1wL7AmCjCM4yxg1BP3SiRin1i
22-JUL-98   86657638        .07   86421.15      36962         45 N    9286934 O        .01 04-AUG-98 02-AUG-98 RAIL
2 DELIVER IN PERSON        gQw3h7AzLSN
12-JUL-98   86657767        .07   17661.44     656057         16 N    4156048 O        .07 29-AUG-98 03-AUG-98 RAIL
2 DELIVER IN PERSON        RkgQmlhx7k4g4Cjy yBLhyP6CRO6
10 rows selected.
C_CUSTKEY  C_MKTSEGME C_NATIONKE C_NAME                    C_ADDRESS                                     C_PHONE
C_ACCTBAL  C_COMMENT
---------- ---------- ---------- ------------------------- --------------------------------------- --------------- ----
------ ------------------------------------------------------------------------
   2343757 BUILDING            0 Customer#002343757        OmiOhz2n13nAM                           10-288-494-8922
8061.92 6Q hx5AQPCkkNnQzSknMknk2i4 5C
   2343773 BUILDING           13 Customer#002343773        NOinON1lhOmhAx                          23-783-956-2263
6442.11 iAlMhhwQw1Rgng  gNA5gjNmjyL64N61lgyOnP4P6MORy7l y
   2343774 BUILDING           22 Customer#002343774        7Lw6zSShLzQizlgNNz                      32-644-259-4728
8504.63 QngMkB33g NPMw06PhPnM6nnC04xxQ6O37mj0x4Ml 2
   2343779 BUILDING           10 Customer#002343779        i7nzg4 gL3z40Cz53047nBhR4CA             20-352-990-5668
8656.41 7100LiMwP4hB22C01AAxLlRP0MOQm72imi51g2N2By5337 QznBn1ll
   2343792 BUILDING            2 Customer#002343792        xS3xlQjjkRC hP57LR3g2mMnhkP 0Nm         12-670-459-1107
4884.19 1N7ALzMhS OjSQA0Q 45z3 4QONS5yzBBnxNS 7mPlzgQnMyAB0w53BlnONPOxO36MB7RmO6iS2l6QzL
   2343794 BUILDING           10 Customer#002343794        yiBN4Qmxi iPBAL4AR2N                    20-548-928-6601
4734.53 3lj2 13hO53Mni7BgjAS273iN47m7iSiL kg5ARP
   2343803 BUILDING           16 Customer#002343803        7N51zO2Qz4PA n2n1SyPm 3nzy              26-735-958-3573
7233.44 45m46zjP7QRyzh5Bnnzmj 43NQmzNlPzljO4g0Lww77wSN4xA6gy3hBRy6 xBmRnlQSPCS
   2343806 BUILDING           23 Customer#002343806        2w1RjOwSOPjmywBi                        33-550-986-7094
5073.36 Sh1Ax61zjMwySBlQNLgzA3iROwgxSOlk2 65jNyCjh5w5SxwO 3RgmRCRmmMi7Q3B13SR
   2343807 BUILDING           14 Customer#002343807        l517LLQligwj                            24-984-652-9565
4977.94 AA7mgl6ki5M1x1i5iROMBg5C5OLC674mh5h16m6PMk3kBlwyQj55SLg6OjO4Q OQmi6LgAPmzkOP7wm
   2343813 BUILDING           11 Customer#002343813        OR Qn LlSnnwjwBzQ 73 Qn7gA3             21-172-489-9055
9358.31 m37jOPllmOzM nx2ACNyjP  OLwxLRz2nwQ4g2gj3SOkMCmPR7QyNji7S3nL3
10 rows selected.
P_PARTKEY  P_TYPE                    P_SIZE     P_BRAND    P_NAME
P_CONTAINE P_MFGR                    P_RETAILPR P_COMMENT
---------- ------------------------- ---------- ---------- ----------------------------------------------- -----
----- ------------------------- ---------- ----------------------
  13790289 STANDARD BRUSHED STEEL            11 Brand#55   lavender peru midnight salmon firebrick                WRAP
PACK  Manufacturer#5              1378.6 Q75Ogwl1BiCxw1PN
  13790313 PROMO BURNISHED NICKEL            11 Brand#53   orchid brown firebrick burlywood drab                  JUMBO
JAR  Manufacturer#5               1402.63 6hj7z6Oz1Oj5A6
  13790399 LARGE POLISHED COPPER             11 Brand#14   rose olive sienna tan                                  WRAP
JAR   Manufacturer#1              1488.71 kB56gLwMQ4ll iB
```

Appendix F

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  13790543 STANDARD POLISHED TIN             11 Brand#43   drab sky floral frosted chocolate                       LG
BAG     Manufacturer#4              1632.86 jMPjz12yk4k7m
  13790706 PROMO BURNISHED STEEL             11 Brand#51   midnight brown magenta blush orchid                     JUMBO
BOX  Manufacturer#5            1796.02 P71mBMLnQ0R
  13790708 LARGE POLISHED BRASS              11 Brand#35   sky chartreuse saddle dim tomato                        SM
JAR     Manufacturer#3              1798.02 SCNzh5
  13790780 LARGE BURNISHED TIN               11 Brand#53   cream lawn rose firebrick burnished                     SM
PACK    Manufacturer#5               1870.1 6g5OySw2w4OiR4CAP3 n
  13790798 STANDARD POLISHED STEEL           11 Brand#33   sandy salmon khaki olive honeydew                       MED
PACK   Manufacturer#3             1888.11 A6RBxLAh25
  13790916 PROMO PLATED BRASS                11 Brand#51   burnished turquoise deep purple sky                     LG
DRUM    Manufacturer#5              2006.23 h50gOkmhBC1 Bz
  13790990 SMALL PLATED TIN                  11 Brand#33   floral medium burnished tan                             WRAP
BAG   Manufacturer#3              2080.31 jw6yiBg2iMORxP4m
10 rows selected.
S_SUPPKEY  S_NATIONKE S_COMMENT                                                                        S_NAME
S_ADDRESS                          S_PHONE         S_ACCTBAL
---------- ---------- ---------------------------------------------------------------------------- ------------------
-------- ---------------------------------------- --------------- -----------
    256033          9 QRnOM0AlzSmikg6nxOl0hkBLAQ3xPmxOLlM26j 2Myx7zBOi7B4LSxjL43hhgM7nknPQMLNxO4xi4S53
Supplier#000256033         CwgOx4BMxx3                       19-693-495-3538    3964.65
    256034         21  L34xmzigMjO 53wQwC2 QQn6Q4iw kSRLCCw4BAjw4yLPNCih7z
Supplier#000256034         wPR63S207R7iPN14QQP               31-956-256-8259    4900.02
    256035         21 iSk5BmO0yAhA31S76017CAhAA
Supplier#000256035         Qn5kxML06h110OSlA2RS              31-895-218-1031    6635.15
    256036          7 Ak5P4gPQhRn2hhlnO6nSR0C1zBx25Mjg iyMl00CQ0RB0P5l0Ny6x72ML5nMgOmLPP45
Supplier#000256036         7123 Ok2CNiiz3m3nknO3w5           17-695-362-9989    8034.77
    256037         23 00L56Lh6AlmSM Bn0jjM0Cjhgwni223Bnljl27n5wljM Pjj57LMk2RMk7Sh5Mk wl4PR3glBM50yi1
Supplier#000256037         z4P5N6SlA40hk0n23O1l16            33-392-388-4607    2515.64
    256038          7 zPgn 54ygNiBQh0gOBSx5BPjCmQLgOAi0Q7zMwLlmgC7 N4Nl3kC h5BP
Supplier#000256038         min21Cj321yy6yR O                 17-440-792-6246    5295.65
    256039         11 6ziAOSzN2Oxih4yy4wBA 65LxMhQ3hPPmyjjA3ggN3nlwxO1jR45mSRRSglm0AA
Supplier#000256039          2l6mPnMS4w w62wl2PO5nNhBSxPlyyS5m0j4    21-668-360-2610    1064.35
    256040         11 nmiNkw622niBQA3A2SmN mNLh6xB44zLL3y1PNMR
Supplier#000256040         LOj6yl2jPj2zk1 wMCj4C4 Bl5        21-911-163-1284     442.51
    256041         17 PzQPCM371h0hh6w07llC zM7zg52kk7gi4N Bhz MShPwBmxBmnQjMin6w70gPMnymmNwwMn
Supplier#000256041         3LzOnO6zSNR1hNCyn0 iLhg1          27-910-931-2221    -775.46
    256042          6 2PjnzCOk1kz OO07yQ4lA12nm5OlAClM255BhjOky6BS473icgC76y1BnPPgzgP5nR
Supplier#000256042         4yAAxOROzlMw7wCRO32M53zRjnwh7ignNm       16-503-876-4075    -301.02
10 rows selected.
PS_PARTKEY PS_SUPPKEY PS_SUPPLYC PS_AVAILQT PS_COMMENT
---------- ---------- ---------- ---------- ----------------------------------------------------------------------------
----
         1          2        771.64       3325 OOPL56QkQRSkg2z7MANNj4i1h2zLQQLiQnAlML1S6 k4hg3hP5hk3ywMLwy 7gjR3
4Q7S1Qmzx2jOS3
         1     250002        993.49       8076 nSO7Mln4N7LlxgAyM2MzNnO7kONlhjyShgCy3OA 27QML0SQ77CPPgkCQAQCwz5M3MmSSAQ
LxMLMC0B
         1     500002        337.09       3956 6215k jLCizNlOBl62nP4lLQy431kOzyzn2M6L3h73lCljhlx3x5ghjlOyL76A0hzPk2CS2jkxN
gAN3
         1     750002        357.84       4069 234OCA5ghw0P0gS3n2jCS35yAm 3L5C7iB k7 w1 R52LLOACQ6i6O6OB
2MP1x0wC23ik2Omk4Nnxzm
         2          3        378.49       8895 MMNOM3BnMM6NBzjB 2mg i jALB
nQhBM5ROi5N7A5w4B4S2k1506OzMgh6SRB7nP1hQCjgjR17SBA77
         2     250003        915.27       4969 6S66zNlykhii26wwAxz1PRMxggAy446yylPBS5wP Rl6ggNkyikkyhxymMShNgQmBim1N60
O0NSjwPw
         2     500003        438.37       8539 BPOgj3k MgQR2
x6kn3BR6lkmhMzjQk6S343LmN6lz2Qh512MSi4nQ5Bghxlh4O1yyn463mxOh7Bxgx1
         2     750003        306.39       3025 y5BNy3Aw02nxyMxgzP5BS14gg7MCnLlSkih56gOMOy4QyNj5P3iM jOmkRQhRR3hylCn4jN
LlgSxyPi
         3          4        920.92       4651 P7 437MmnM0Pik
lAwBj0gSnm1z1zAMA6417zgS154nLCC0Q6BC1lgxyB6BkOj6QCC6n4mw2w7jgCNP
         3     250004        498.13       4093
PyRmlwO76kO3igxhS64h5x6PBLM2PxkO0j3NMRgzP6S1ghhw4Nnn04my03lzCyQQ4M3gS2kO2iOmxPzl
10 rows selected.
N_NATIONKE N_NAME                    N_REGIONKE N_COMMENT
---------- ------------------------- ---------- ----------------------------------------------------------------------------
--------
         0 ALGERIA                            0 2Cxhl7 L1iwk6hMh30OizngN32CPwCikyLk6khMzSRA
         1 ARGENTINA                          1 zQn3Okwz1wLn7PLS3OhCgn56kP5PyRikgi1B7lL
         2 BRAZIL                             1 gLmS0nACAmnBCj2klki7RCPNgPxnCOjNg4k OiAg57COSOm1NwCnOyLx40R SC
y20gPPAkNk5hxRhR5
         3 CANADA                             1  4yMO AhnQ5Lh wzQAM662Aw1ByCl7CxmzRwNR5nAlO4 x
         4 EGYPT                              4 l1im5126  Cxj NMQmLxOikniO2j2m3Ah4yNR1QQiL507j2QSlyN
         5 ETHIOPIA                           0 NS7n LSOP Oz5n1AlB2SO2nN0lMh4SBxP iRhBO 047R26 2BlM
         6 FRANCE                             3 3mjmizl S 3L3k2hNNhNlP4w370xRxyN15wn
         7 GERMANY                            3 z nOP4RkwO CmzBB 516mAg lByw4OM3QyNPA
         8 INDIA                              2 MNlR5RCiRMj1l11wjN7Myn M1lylNlMmBQl7PL4C
kkxQkgPQ7i3w6B67R2QkOO4Oxl4Q2iw76jRL7i
         9 INDONESIA                          2 SjPmQO71Lj 7ABj6MxlAQk3nLwi73BPxzCwjzMn4zlLzgg6nnzOj0w zxC66gP6ykRPMg
10 rows selected.
R_REGIONKE R_NAME                    R_COMMENT
---------- ------------------------- ----------------------------------------------------------------------------------
         0 AFRICA                    xSx31zz31Cl1z4OAnmm05AjiOxC3AMMNOgC0kACgwngg3glP7LLLywlQy7R
         1 AMERICA                   kgyh3LSnC72k6zlAzOLP3k2L4QB1QL1O673OjO1SPj0ngQ7CO100SBgmgRQ4lgPCMk21A425iklyAR4y
         2 ASIA                      NSg6xlMlA1lzm6mOR0Ajx nhRA77NgRxBwL1M6Py RjySB3RLwkyPkwMM2R1BQ xAzkOgkjml10gAghi
         3 EUROPE                    zlSL7Qwg12hMBL5lhlz0M45QkjShwSyiO04MLOh7wn1ARLQPyPAyAiil576l1Li7AlnR1S RQ4SLny7B
         4 MIDDLE EAST               RllxmhPLz3Cy2mNlg4QMBnNASM ACki MPki7Oi
5 rows selected.
```

Appendix G: Auditor's Attestation Letter

Test Sponsor: Richard Clifton
VP, Database Engineering
Data General Corporation
4400 Computer Drive
Westboro, MA 01886

5 August 1997

I verified the TPC Benchmark™ D performance of the following configuration:

Platform: AViiON Model AV6600
DataBase Manager: Oracle Version 8.03
Operating System: Microsoft Windows NT 4.0 SP3
The results were:

CPU's Speed	Memory	Disks	QppD@100GB	QthD@100GB
AViiON Model AV6600				
6 x Pentium Pro (200 MHz)	512KB L2 2GB Main	1 x 2.1GB 83 x 4.3 GB	528.6	213.9

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 TIME table was not used
- The input variables were generated by QGEN
- The database was populated using DBGEN
- The database was maintained by the "Reset" method
- The throughput metric was computed using the results from the power test
- The ratio between the longest and the shortest query was such that no adjustment was necessary
- A compliant implementation specific layer was used
- The query text was produced using compliant variants and minor modifications
- The database records were defined with the proper layout and size

- The database was properly scaled to 100GB and populated accordingly
- The database load time was correctly measured and reported
- The ACID Properties were verified and met
- The reported execution times were correctly measured and reported
- Measurement repeatability was verified
- At least 8 hours of database log was configured
- The system pricing was verified for major components and maintenance
- The major pages from the FDR were verified for accuracy

Additional Audit Notes:

None.

Respectfully Yours,

François Raab
President

AViiON Model AV6600