

TPC Benchmark[™] C
Full Disclosure Report
for
IBM @server xSeries 370
using
IBM DB2 Universal Database V7.1
and
Microsoft Windows 2000 Advanced Server

TPC-C
Rev. 3.5 Upgrade to Rev. 5.0

Submitted for Review
April 11, 2001



First Edition - April 2001

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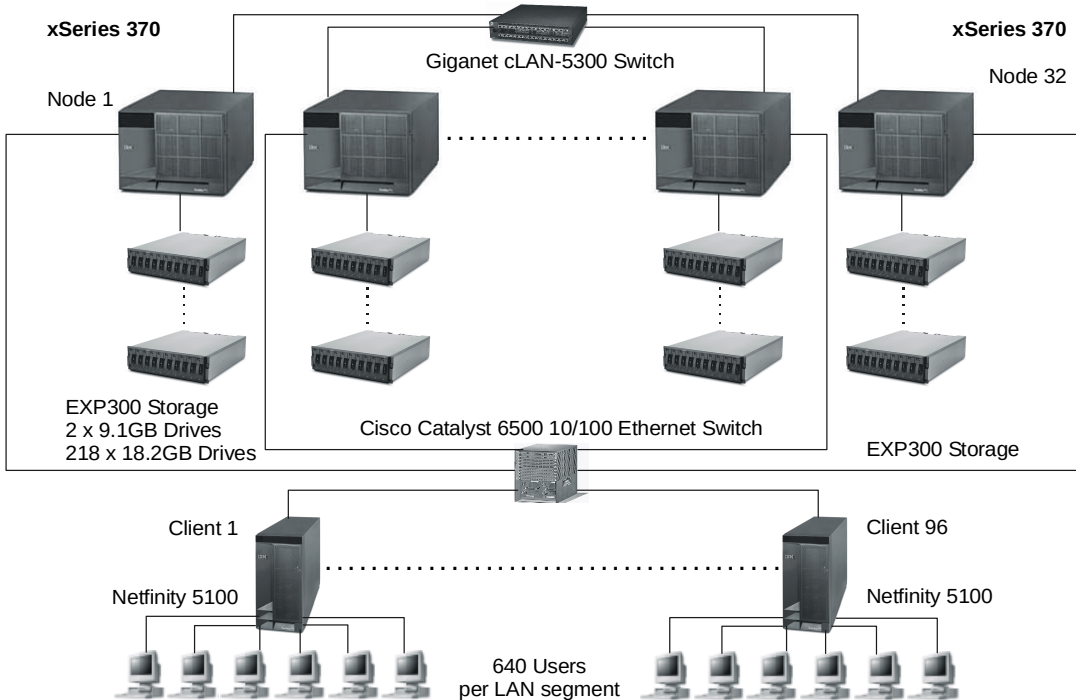
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Notes

¹ MHz only measures microprocessor internal clock speed, not application performance. Many factors affect application performance.

² In the context of the TPC-C benchmark reported in this document, 1GB equals 1024*1024MB. The reason for calculating GB in this way is to maintain compatibility with the method Windows' logical disk manager uses to report storage.

		IBM @server xSeries 370 c/s with DB2 UDB 7.1		TPC-C Rev. 5.0 Upgrade from Rev. 3.5 Report Date: April 11, 2001 (Original: July 3, 2000)					
Total System Cost		TPC-C Throughput		Price/Performance		Availability Date			
\$11,033,029		440,879.95 tpmC		\$25.03/tpmC		Dec. 7, 2000			
Processors		Database Manager		Operating System		Other Software		Number of Users	
128 Intel ^(R) Pentium ^(R) III Xeon™ 700MHz 2MB L2 Cache		DB2 ^(R) UDB 7.1		Microsoft ^(R) Windows ^(R) 2000 Advanced Server		Microsoft COM+ Microsoft Visual C++ 6.0		368,640	
									
System Component		Qty	Each of 32 Server Nodes			Qty	Each of 96 Clients		
Processors		4	700MHz Pentium III Xeon			2	733MHz Pentium III		
Cache			w/2MB L2 Cache				w/256KB L2 Cache		
Memory		8	512MB SDRAM ECC			4	128MB		
Disk Controllers		8	ServeRAID-4H Ultra160			1	Wide Ultra SCSI Onboard		
Disk Drives		2	9.1GB (10000 rpm)			1	9.1GB Hard Disk		
		218	18.2GB (10000 rpm)						
		1	Giganet cLAN-1000 Adapter						
Total Storage			116TB (59.58TB online)						
Other									
Tape Drive		1	3502-108 DLT Tape Autoloader						
Interconnect		2	Giganet cLAN-5300 Switch						

Numerical Quantities Summary			
MQTh, Computed Maximum Qualified Throughput: % throughput difference, reported and reproducibility runs:		440,879.95 tpmC 0.0099%	
Response Times (in seconds)	90%	Average	Maximum
New-Order	2.00	1.25	315.39
Payment	2.64	1.19	787.71
Order-Status	1.07	0.53	126.20
Delivery (Interactive)	0.66	0.25	84.08
Delivery (Deferred)	1.69	0.93	32.44
Stock-Level	1.38	0.80	52.91
Menu	0.67	0.26	262.60
Transaction Mix (in percent of total transactions)		Total Occurrences	Percent
New-Order		8,817,599	44.66
Payment		8,518,739	43.15
Order-Status		800,948	4.06
Delivery		803,890	4.07
Stock-Level		801,588	4.06
Emulation Delay (in seconds)		Response Time	Menu
New-Order		0.1	0.1
Payment		0.1	0.1
Order-Status		0.1	0.1
Delivery		0.1	0.1
Stock-Level		0.1	0.1
Keying/Think Times (in seconds)	Minimum	Average	Maximum
New-Order	18.00 / 0.00	18.01 / 12.04	18.05 / 120.51
Payment	3.00 / 0.00	3.01 / 12.04	3.05 / 120.50
Order Status	2.00 / 0.00	2.01 / 10.04	2.05 / 100.50
Delivery	2.00 / 0.00	2.01 / 5.06	2.05 / 50.50
Stock-Level	2.00 / 0.00	2.01 / 5.05	2.05 / 50.50
Test Duration			
Ramp-up time			65 minutes
Measurement interval			20 minutes
Number of transactions (all types) completed in measurement interval			19,742,764
Ramp-down time			7 minutes
Number of checkpoints in measurement interval			N/A
Checkpoint interval			N/A

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Preface

The TPC Benchmark™ C was developed by the Transaction Processing Performance Council (TPC). The TPC was founded to define transaction processing benchmarks and to disseminate objective, verifiable performance data to the industry. This full disclosure report is based on the TPC Benchmark C Standard Specification Version 3.5, released October 25, 1999.

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

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

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

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

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

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

General Items

Benchmark Sponsor

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

This benchmark was sponsored by International Business Machines Corporation.

Application Code and Definition Statements

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

Appendix A contains all source code implemented in this benchmark.

Parameter Settings

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

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

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

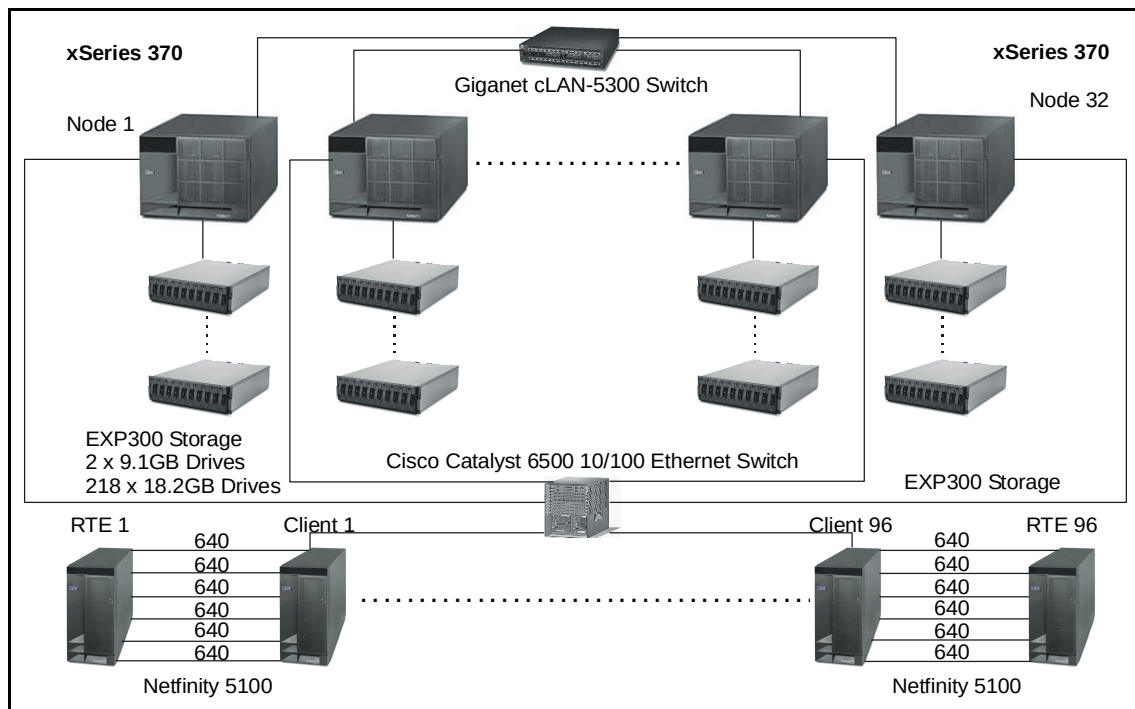
Appendix C contains the tunable parameters for the database, the operating system, and the transaction monitor.

Configuration Diagrams

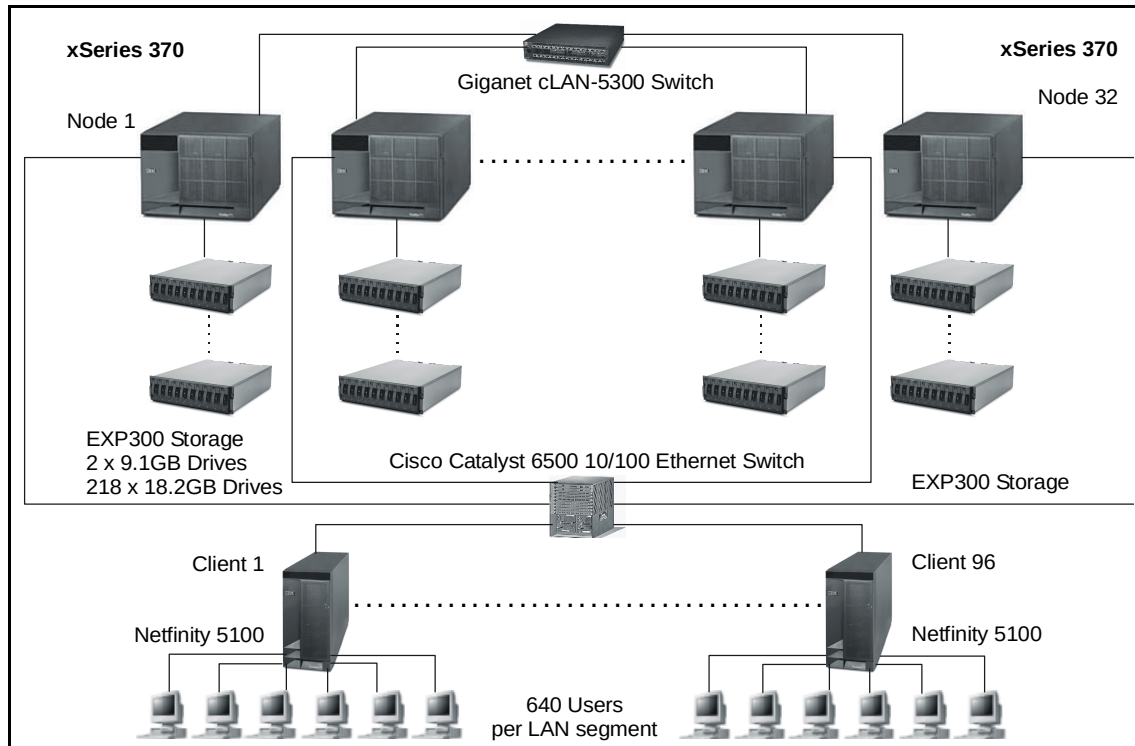
Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences.

The configuration diagrams for the measured and priced systems are provided on the following pages.

Measured Configuration



Priced Configuration



The priced and measured configurations were identical with two exceptions. For a full description of the hardware and software components used in the priced configuration, see the Executive Summary at the front of this report.

Disk Drive Substitution

Disk drive substitution was used for the 18.2GB 10K Wide Ultra SCSI drives. The measured configuration used 6,938 18.2GB 10K-3 Wide Ultra SCSI drives (P/N 36L9749) and 38 18.2GB 10K Ultra160 SCSI drives (P/N 37L7205). The 38 drives were configured on one of the 32 nodes as follows:

- Eight (8) drives were configured as a RAID-5 disk array for the database log.
- Thirty (30) drives were configured as two 15-disk RAID-1 arrays for database tables.

The priced configuration included 6,976 18.2GB 10K Ultra160 SCSI drives (P/N 37L7205). I/O performance data provided to the auditor showed that the performance of the priced drives was equivalent to the performance of the drives used in the measured configuration for both the database log and database tables.

Network Configuration

In the measured configuration, the six LAN segment connections between most of the RTE-client pairs used Ethernet cross-over cables. The link speed for each Ethernet adapter port was set at 10Mbps. On one RTE-client pair, the six LAN segment connections used Type 5 Ethernet cables and 10Mbps Ethernet hubs. Benchcraft was used to generate separate transaction reports for an RTE-client pair that used cross-over cables and an RTE-client pair that used Ethernet hubs. The response time data indicated no difference in performance between the use of hubs vs. cross-over cables. The data was submitted to the auditor. An additional IBM 10/100 Ethernet Server Adapter was installed on each node. This adapter provided connectivity to the IBM campus LAN and served no function during the benchmark. The additional adapter was not included in the priced configuration.

Clause 1: Logical Database Design Related Items

Table Definitions

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

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

Physical Organization of the Database

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

Physical space was allocated to DB2 UDB on the server disks as detailed in Figure 4-2.

Tables Warehouse, District, Customer, Order_Line, Stock, History, New_Order and Orders used 30-percent free space.

Insert and Delete Operations

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

All insert and delete functions were fully operational during the running of the benchmark. The space required for an additional 5 percent of the initial table cardinality was allocated to DB2 UDB and priced as static space.

The insert and delete functions were verified by the auditor. In addition, the auditor verified that the primary key for each database table could be updated.

Horizontal or Vertical Partitioning

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

The database tables, with one exception, were partitioned across the server nodes using hash partitioning. The warehouse ID was used as the partition key. The specifics of the distribution of database partitions across the physical media can be found in Table 4-2. The exception is the ITEM table, which was replicated across all database server nodes.

Replication

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

The ITEM table was replicated across all database server nodes. The REFRESH IMMEDIATE option was used to ensure that updates made to the base table were made to all its replicas immediately. Their consistency has been verified by the auditor.

Table Attributes

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

No additional attributes were used in this benchmark.

Clause 2: Transaction and Terminal Profiles Related Items

Random Number Generation

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

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

Screen Layout

The actual layouts of the terminal input/out screens must be disclosed.

All screen layouts followed the TPC Benchmark C Standard Specification exactly.

Terminal Verification

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

The auditor verified terminal features by direct experimentation. The benchmarked configuration uses Microsoft Internet Explorer 5.0 and HTML scripts as the terminal interface.

Intelligent Terminals

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

The terminals emulated in the priced configuration are IBM PC desktop computer systems. All processing of the input/output screens was handled by the IBM Netfinity 5000 clients. The screen input/output was managed via HTML strings that comply with the HTML Version 2.0 specification. A listing of the code used to implement the intelligent terminals is provided in Appendix A. All data manipulation was handled by the IBM Netfinity 8500R.

Transaction Profiles

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

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

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

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

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

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

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

Table 2-1. Transaction Statistics

New Order	Value (%)
Home warehouse order lines	99.00
Remote warehouse order lines	1.00
Rolled back transactions	1.00
Average number of items per order	10.00
Payment	
Home warehouse payment transactions	85.06
Remote warehouse payment transactions	14.94
Non-Primary Key Access	
Payment transactions using C_LAST	59.96
Order-Status transactions using C_LAST	60.11
Delivery	
Delivery transactions skipped	0
Transaction Mix	
New-Order	44.66
Payment	43.15
Order-Status	4.06
Stock-Level	4.06
Delivery	4.07

Deferred Delivery Mechanism

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

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

The source code is listed in Appendix A.

Clause 3: Transaction and System Properties Related Items

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

This section describes the tests conducted, as monitored by the auditor, to demonstrate compliance with each of the specification's requirements for ACID properties.

Atomicity Requirements

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

Completed Transactions

The following steps were performed to verify the Atomicity of a completed (commit) Payment transaction:

1. The balance, BALANCE_1, was retrieved from the CUSTOMER table for a random Customer, District and Warehouse combination.
2. The Payment transaction was executed and committed for the Customer, District, and Warehouse combination used in step 1.
3. The balance, BALANCE_2, was retrieved again for the Customer, District, and Warehouse combination used in step 1 and step 2. It was verified that BALANCE_1 was greater than BALANCE_2 by the amount of the Payment transaction.

Aborted Transactions

The following steps were performed to verify the Atomicity of an aborted (rollback) Payment transaction:

1. The Payment transaction was implemented with a Perl script that allowed the transaction to be rolled back rather than committed.
2. The balance, BALANCE_3, was retrieved from the Customer table for the same Customer, District, and Warehouse combination used in the completed Payment transaction Atomicity test.
3. The Payment transaction was executed for the Customer, District and Warehouse used in step 2. Rather than commit the transaction, the transaction was rolled back.
4. The balance, BALANCE_4 was retrieved again for the Customer, District, and Warehouse combination used in step 2. It was verified that BALANCE_4 was equal to BALANCE_3, demonstrating that there were no remaining effects of the rolled back Payment transaction.

Consistency Requirements

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

The specification defines 12 consistency conditions of which the following four are required to be explicitly demonstrated:

1. The sum of balances (d_ytd) for all Districts within a specific Warehouse is equal to the balance (w_ytd) of that Warehouse.
2. For each District within a Warehouse, the next available Order ID (d_next_o_id) minus one is equal to the most recent Order ID [max(o_id)] for the Order table associated with the preceding District and Warehouse. Additionally, that same relationship exists for the most recent Order ID [max(o_id)] for the New Order

table associated with the same District and Warehouse. Those relationships can be illustrated as follows:
 $d_next_o_id - 1 = \max(o_id) = \max(no_o_id)$

where $(d_w_id = o_w_id = no_w_id)$ and $(d_id = o_d_id = no_d_id)$

3. For each District within a Warehouse, the value of the most recent Order ID [$\max(no_o_id)$] minus the first Order ID [$\min(no_o_id)$] plus one, for the New Order table associated with the District and Warehouse equals the number of rows in that New Order table. That relationship can be illustrated as follows:

$\max(no_o_id) - \min(no_o_id) + 1 = \text{number of rows in New Order for the Warehouse/District}$

4. For each District within a Warehouse, the sum of Order Line counts [$\sum(o_ol_cnt)$] for the Order table associated with the District equals the number of rows in the Order Line table associated with the same District. That relationship can be illustrated as follows:

$\sum(o_ol_cnt) = \text{number of rows in the Order Line table for the Warehouse/District}$

The tests of the required four Consistency conditions were combined with the Durability tests as follows:

1. Prior to the start of each Durability test, a Perl script was executed that successfully tested the above four Consistency conditions, verifying the database's consistent state.
2. Each Durability test was then executed (including ramp-up and steady state execution, where appropriate).
3. As a component of each Durability test, the Perl script was again executed, testing the four Consistency conditions. Each of the four tests completed successfully, verifying that the database remained in a consistent state after the recovery from the Durability test.

Isolation Requirements

Sufficient conditions must be enabled at either the system or the application level to ensure that the required isolation defined in Clause 3.4.1 is obtained.

The benchmark specification defines nine tests to demonstrate the property of transaction isolation. The tests, described in Clauses 3.4.2.1 - 3.4.2.7 were all successfully executed using a series of Perl scripts. Case A was observed during the execution of Isolation Tests 7-9.

Durability Requirements

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

- Permanent irrecoverable failure of any single durable medium containing TPC-C database tables or recovery log data
- Instantaneous interruption (system crash/system hang) in processing that requires system reboot to recover
- Failure of all or part of memory (loss of contents)

Recovery from all three of these failures was demonstrated as described in the following sections.

Failure of Memory and Instantaneous Interruption

The two tests were combined into a single test. The test was performed as follows:

1. The four Consistency conditions were tested.
2. The current count of the total number of orders, SUM1, was determined by obtaining the sum of the D_NEXT_O_ID column for all rows in the District table.
3. A measurement was started under full load with all users submitting transactions.
4. The measurement throughput reached a minimum of 90 percent of the reported throughput and maintained that level for at least 5 minutes.
5. After 5 minutes in steady state, a single server node was powered off.
6. The single server node was then powered on.

7. When the single server node was fully booted, DB2 UDB was started and a “DB2 restart db tpcc” command was issued on all nodes to initiate automatic recovery from the logs.
8. After the database recovery completed, the four Consistency tests were successfully executed. The current count of the total number of orders, SUM2, was obtained.
9. The following relationship was verified:
SUM2> = (SUM1 + New Order completed - New Orders rolled back)

Loss of Log Disk and Loss of Data Disk

These two tests were combined for loss of single durable medium failures. The following steps were performed:

1. The four Consistency conditions described above were tested.
2. The current count of the total number of orders, SUM1, was determined by obtaining the sum of the D_NEXT_O_ID column for all rows in the District table.
3. A measurement was started under a 50-percent load.
4. The measurement throughput reached a minimum of 50 percent of the reported throughput and maintained that level for 20 minutes.
5. One disk from the database log configuration was removed.
6. Since the disk was part of a RAID-5 array, DB2 UDB continued to process transactions without interruption.
7. A disk containing a portion of each of the tables in the database was removed.
8. Since the disk was RAID-1E protected, DB2 UDB continued to process transactions without interruption.
9. The run was completed normally.
10. After the run was completed, the log and data disks removed in steps 5 and 7 were replaced and the Netfinity ServeRAID rebuilt each drive.
11. The four Consistency conditions were again tested successfully.
12. Step 1 was repeated to obtain the current count of the total number of orders, SUM2.
13. The following relationship was verified:
SUM2>= (SUM1 + New Order completed - New Orders rolled back)

Loss of Interconnect

1. The four Consistency conditions were tested.
2. The current count of the total number of orders, SUM1, was determined by obtaining the sum of the D_NEXT_O_ID column for all rows in the District table.
3. A measurement was started under full load with all users submitting transactions.
4. The measurement throughput reached a minimum of 90 percent of the reported throughput and maintained that level for at least 5 minutes.
5. After 5 minutes in steady state, the Giganet interconnect was powered off.
6. The interconnect was then powered on 10 minutes later.
7. When the interconnect was repowered, DB2 UDB was stopped and restarted and a “DB2 restart db tpcc” command was issued on all nodes to initiate automatic recovery from the logs.
8. After the database recovery completed, the four Consistency tests were successfully executed. The current count of the total number of orders, SUM2, was obtained.
9. The following relationship was verified:
SUM2> = (SUM1 + New Order completed - New Orders rolled back)

Loss of NVRAM

The NVRAM test described below was performed in another TPC-C benchmark configuration using an identical disk I/O subsystem as that used in the benchmark in this report.

1. The third Consistency condition was tested.
2. The current count of the total number of orders was determined by the sum of D_NEXT_O_ID for all rows in the district table giving SUM1.

3. A measurement was started under full load with all users submitting transactions.
4. The measurement throughput reached a minimum of 90 percent of the reported throughput and maintained that level for at least 5 minutes.
5. Power was removed from the NVRAM module.
6. The controller detected the NVRAM failure and switched from write-back to write-through mode.
7. The system continued to run for another 2 minutes, after which the test was paused.
8. Step 1 was repeated to obtain the current count of the total number of orders giving SUM2.
9. It was verified that the sum of D_NEXT_O_ID after the database is recovered is greater than or equal to the sum of D_NEXT_O_ID before the run, plus all new order transactions completed during the run minus any rollback transactions.
10. The third Consistency condition was tested.

Clause 4: Scaling and Database Population Related Items

Cardinality of Tables

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

The database was built with 41,760 warehouses, but the audited run used only 36,864 warehouses; 4,896 rows from the warehouse table were deleted. Then the warehouse table was queried to verify that the max_w_id = 36,864 and that there were 36,864 records in the warehouse table.

Table 4-1. Initial Cardinality of Tables

Table Name	Rows
Warehouse	41,760
District	417,600
Customer	1,252,800,000
History	1,252,800,000
Orders	1,252,800,000
New Order	37,584,000
Order Line	12,529,684,864
Stock	4,176,000,000
Item	100,000
Inactive Warehouses	4,896

Distribution of Tables and Logs

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

The following series of table depicts the database configuration of the tested system to meet the 8-hour steady state requirement. The configuration was the same on all 32 nodes, apart from ITEM1 tablespace, which was only on the first node. WDI stands for Warehouse and District. ORNU stands for Order and New Order

[illegible]

Controller	Disk	Drives	Partition	Size	Use
4	Disk 6	15 - 18.2GB RAID-1E	1	390MB	Hist
			2	576MB	ORNU
			3	288MB	stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_line_data
			9	90MB	Not Used
			10	40MB	Not Used
			11 (All RAW)	1.11GB	TEMP
			J: NTFS	64GB	BK103 (Backup)
	Disk 7	15 - 18.2GB RAID-1E	1	390MB	Hist
			2	576MB	ORNU
			3	288MB	Stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_Line_data
			9	90MB	Not Used
			10	40MB	Not Used
			11 (All RAW)	1.11GB	TEMP
			K: NTFS	64GB	BK104 (Backup)
5	Disk 8	15 - 18.2GB RAID-1E	1	390MB	Hist
			2	576MB	ORNU
			3	288MB	Stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_Line_data
			9	90MB	Not Used
			10	40MB	Not Used
			11 (All RAW)	1.11GB	TEMP
			L: NTFS	64GB	Not Used
	Disk 9	15 - 18.2GB RAID-1E	1	390MB	Hist
			2	576MB	ORNU
			3	288MB	Stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_Line_data
			9	90MB	Not Used
			10	40MB	Not Used
			11 (All RAW)	1.11GB	TEMP
			M: NTFS	64GB	Not Used

Controller	Disk	Drives	Partition	Size	Use
6	Disk 10	15 - 18.2GB RAID-1E	1	390MB	Hist
			2	576MB	ORNU
			3	288MB	stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_line_data
			9	90MB	Not Used
			10	40MB	Not Used
			11 (All RAW)	1.11GB	TEMP
	Disk 11	15 - 18.2GB RAID-1E	N: NTFS	64GB	BK201 (Backup)
			1	390MB	Hist
			2	576MB	ORNU
			3	288MB	Stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_Line_data
			9	90MB	WDI
			10	40MB	Not Used
			11 (All RAW)	1.11GB	TEMP
			O: NTFS	64GB	BK202 (Backup)
7	Disk 12	15 - 18.2GB RAID-1E	1	390MB	Hist
			2	576MB	ORNU
			3	288MB	Stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_Line_data
			9	90MB	Not Used
			10	40MB	Not Used
			11 (All RAW)	1.11GB	TEMP
	Disk 13	15 - 18.2GB RAID-1E	P: NTFS	64GB	BK203 (Backup)
			1	390MB	Hist
			2	576MB	ORNU
			3	288MB	Stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_Line_data
			9	90MB	Not Used
			10	40MB	Not Used
			11 (All RAW)	1.11GB	TEMP
			Q: NTFS	64GB	BK204 (Backup)

Controller	Disk	Drives	Partition	Size	Use
8	Disk 14	15 - 18.2GB RAID-1E	1	390MB	Hist
			2	576MB	ORNU
			3	288MB	stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_line_data
			9	90MB	Not Used
			10	40MB	Not Used
			11 (All RAW) R: NTFS	1.11GB 64GB	TEMP Not Used
	Disk 15	15 - 18.2GB RAID-1E	1	390MB	Hist
			2	576MB	ORNU
			3	288MB	Stock_index
			4	4.44GB	Stock
			5	3.19GB	Customer
			6	430MB	Customer_index
			7	1.80GB	Order_Line_index
			8	4.23GB	Order_Line_data
			9	90MB	WDI
			10	40MB	Not Used
			11 (All RAW) S: NTFS	1.11GB 64GB	TEMP Not Used

The Netfinity ServeRAID controller used in the Version 3.5 audit offers a standard 32MB volatile cache and a 32MB non-volatile, redundant, removeable, battery-backed cache. The write policy for the operating system logical drive was set to write-back. All database logical drives used a write-back policy. In write-back mode, cached I/O writes are first written to the volatile cache and are then copied to the battery-backed non-volatile cache. As a result, the non-volatile cache contains a mirror copy of the volatile cache. Completion of both operations is required before the ServeRAID controller reports that the I/O is complete.

If the volatile cache or the ServeRAID controller fails, the contents of the battery-backed cache remain intact and can be recovered by installing the battery-backed cache on a new ServeRAID controller. If the battery-backed cache fails, the write policy of all logical drives in write-back mode is immediately switched to write-through policy and I/O writes are only placed in the volatile cache.

Database Model Implemented

A statement must be provided that describes:

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

DB2 UDB is a relational database. DB2 UDB remote stored procedure calls, known as DB2 DARI (Distributed Application Remote Interface), were used to invoke DB2 stored procedures from embedded C code over ODBC-managed connections. The DB2 UDB stored procedures were also written in embedded C code.

Partitions/Replications Mapping

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

The database tables, with one exception, were partitioned across the server nodes using hash partitioning. The warehouse ID was used as the partition key. The specifics of the distribution of database partitions across the physical media can be found in Table 4-2. The exception is the ITEM table, which was replicated across all nodes and the replica is stored in the WDI tablespace.

60-Day Space Requirement

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

See Appendix E for details about how the 60-day space requirements were calculated.

Clause 5: Performance Metrics and Response Time Related Items

Measured tpmC

Measured tpmC must be reported. (8.1.6.1)

Measured tpmC: 440,879.95 tpmC

Price per tpmC: \$25.03 per tpmC

Response Times

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

The TPC-C requirements for the average response time and the 90th percentile were met. Table 5-1 provides the response times for each of the transaction types and the menu for the measured system.

Table 5-1. Response Times in Seconds

Transaction Type	Average	Maximum	90th %
New-Order	1.25	315.39	2.00
Payment	1.19	787.71	2.64
Order-Status	0.53	126.20	1.07
Delivery (interactive)	0.25	84.08	0.66
Delivery (deferred)	0.93	32.44	1.69
Stock-Level	0.80	52.91	1.38
Menu	0.26	262.60	0.67

Keying/Think Times

The minimum, the average, and the maximum keying and think times must be reported for each transaction type. (8.1.6.3)

Table 5-2 lists the keying/think times for the measured system.

Table 5-2. Keying/Think Times

Transaction Type	Minimum	Average	Maximum
New-Order	18.00 / 0.00	18.01 / 12.04	18.05 / 120.51
Payment	3.00 / 0.00	3.01 / 12.04	3.05 / 120.50
Order-Status	2.00 / 0.00	2.01 / 10.04	2.05 / 100.50
Delivery	2.00 / 0.00	2.01 / 5.06	2.05 / 50.50
Stock-Level	2.00 / 0.00	2.01 / 5.05	2.05 / 50.50

Response Time Frequency Distribution Curves

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

Figure 5-1. New-Order Transaction - Response Time Frequency Distribution

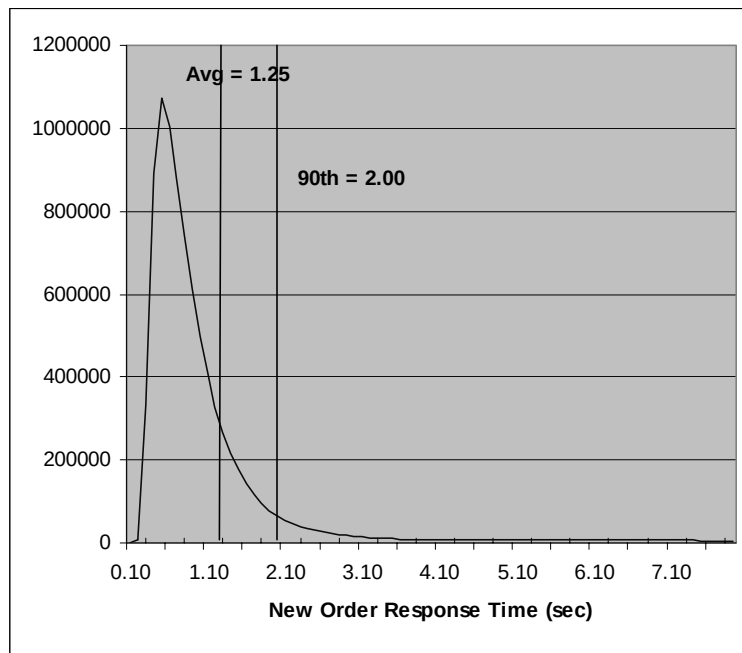


Figure 5-2. Payment Transaction - Response Time Frequency Distribution

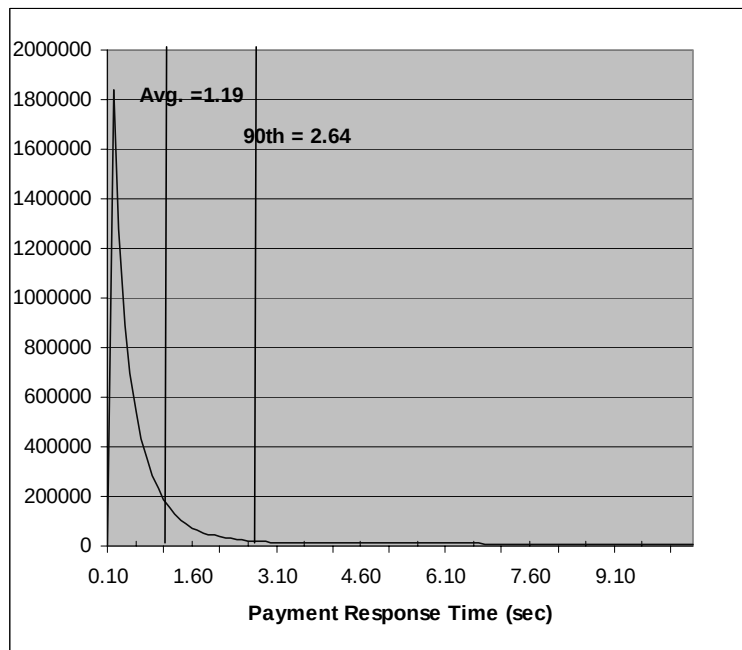


Figure 5-3. Order-Status Transaction - Response Time Frequency Distribution

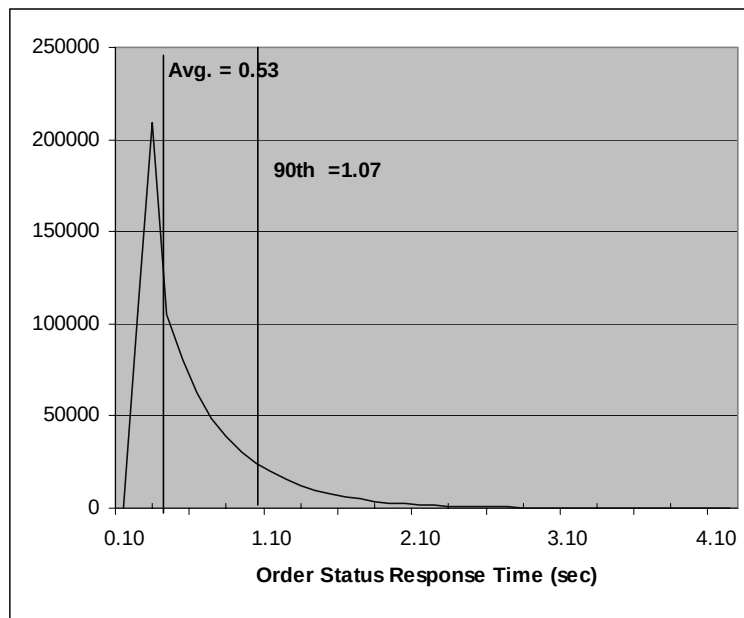
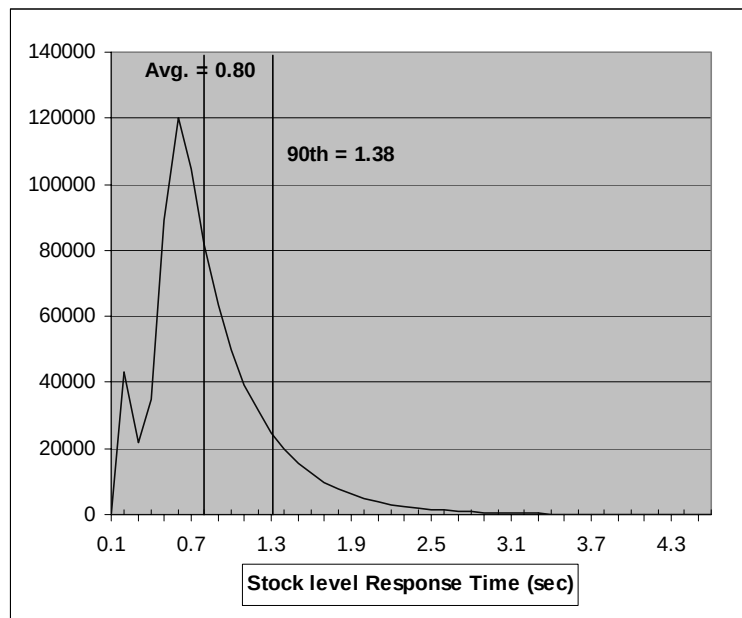


Figure 5-4. Delivery Transaction - Response Time Frequency Distribution



Figure 5-5. Stock-Level Transaction - Response Time Frequency Distribution



Performance Curve for Response Time vs. Throughput

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

Figure 5-6. New-Order Response Time vs. Throughput

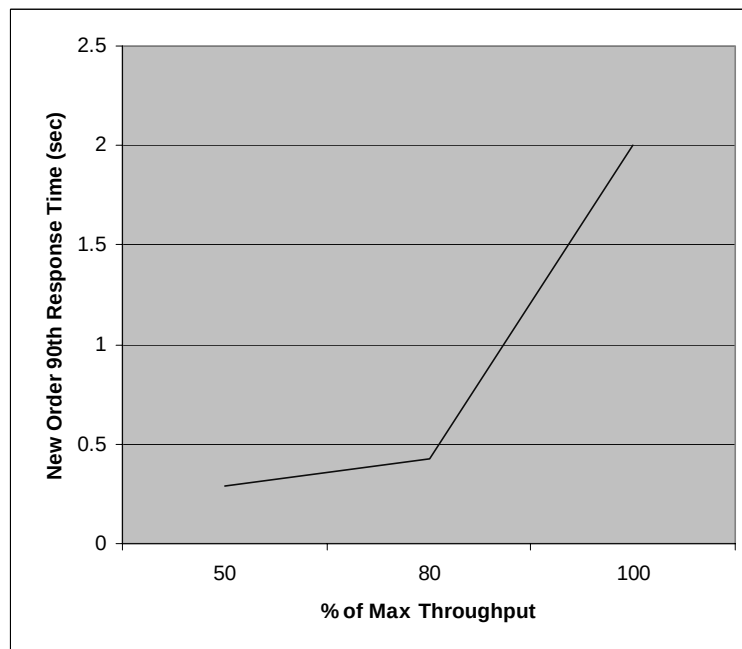
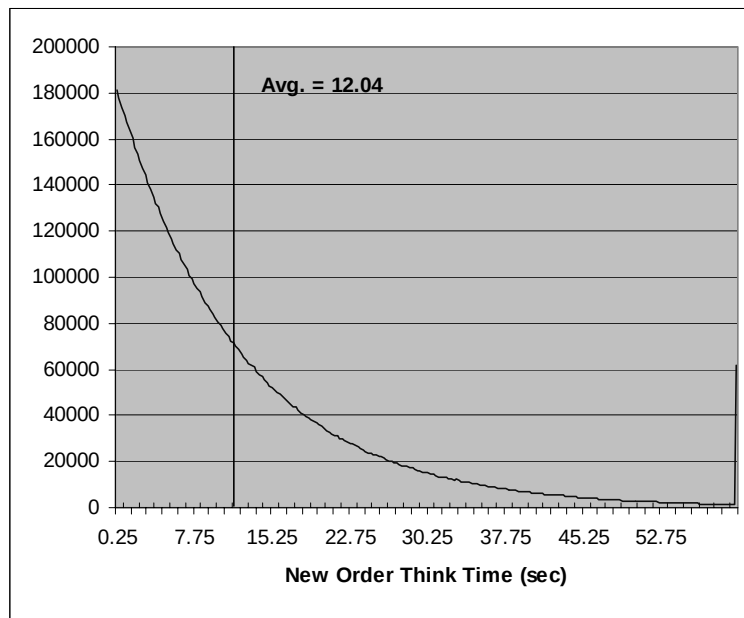


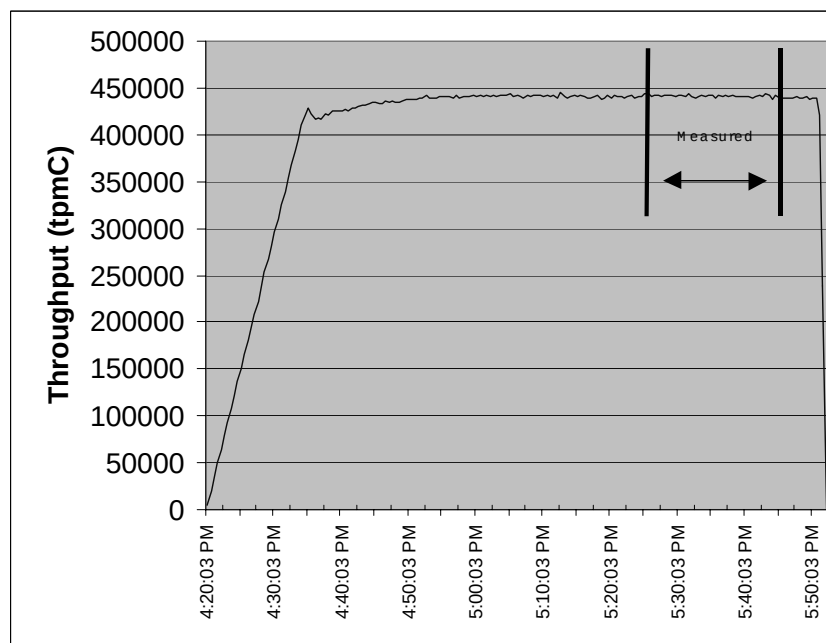
Figure 5-7. New-Order Think Time Distribution



Throughput vs. Elapsed Time

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

Figure 5-8. New-Order Throughput vs. Elapsed Time



Steady State Methodology

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

Figure 5-8 shows that the system was in steady state at the beginning of the measurement interval.

Work Performed during Steady State

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

Transaction Flow

The RTE generated the required input data to choose a transaction from the menu. This data was time-stamped. The response for the requested transaction was verified and time-stamped in the RTE log files.

The RTE generated the required input data for the chosen transaction. It waited to complete the minimum required key time before transmitting the input screen. The transmission was time-stamped. The return of the screen with the required response data was time-stamped. The difference between these two time-stamps was the response time for that transaction and was logged in the RTE log.

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

The RTE transmissions were sent to application processes running on the client machines through Ethernet LANs. These client application processes handled all screen I/O as well as all requests to the database on the server. The applications communicated with the database server over another Ethernet LAN using DB2 ODBC library and DB2 UDB remote stored procedure calls.

Checkpoints

DB2 UDB uses a write-ahead-logging protocol to guarantee recovery. This protocol uses “Soft” checkpoint to write least-recently-used database pages to disk independent of transaction commit. However, enough log information to redo/undo the change to a database pages is committed to disk before the database page itself is written. This protocol therefore renders checkpoint unnecessary for DB2 UDB. For a more detailed description of the general principles of the write-ahead-logging protocol, see the IBM research paper, “ARIES: A Transaction Recovery Method Supporting Fine Granularity Locking and Partial Rollbacks Using Write-Ahead Logging,” by C. Mohan, Database Technology Institute, IBM Almaden Research Center.

Reproducibility Methodology

A description of the method used to determine the reproducibility of the measurement results must be reported. (8.1.6.11)

A repeatability measurement was taken for the same length of time as the measured run. The repeatability measurement was 440,836.30 tpmC.

Measurement Interval

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

The measurement interval was 20 minutes.

Transaction Mix

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

See Table 5-3.

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

Percentage of Total Mix

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

See Table 5-3.

Table 5-3. Transaction Statistics and Transaction Mix

New Order	Value (%)
Home warehouse order lines	99.00
Remote warehouse order lines	1.00
Rolled back transactions	1.00
Average number of items per order	10.00
Payment	
Home warehouse payment transactions	85.06
Remote warehouse payment transactions	14.94
Non-Primary Key Access	
Payment transactions using C_LAST	59.96
Order-Status transactions using C_LAST	60.11
Delivery	
Delivery transactions skipped	0
Transaction Mix	
New-Order	44.66
Payment	43.15
Order-Status	4.06
Stock-Level	4.06
Delivery	4.07

Clause 6: SUT, Driver and Communication Definition Related Items

Description of RTE

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

The RTE used was Microsoft BenchCraft V2.0 RTE. Benchcraft is a proprietary tool provided by Microsoft and is not commercially available. The RTE input is listed in Appendix C.

Emulated Components

It must be demonstrated that the functionality and performance of the components being emulated in the Driver System are equivalent to that of the priced system. The results of the test described in Clause 6.6.3.4 must be disclosed. (8.1.7.2)

No components were emulated.

Benchmarked and Targeted System Configuration Diagrams

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

The driver RTE generated the transaction input data and transmitted it to the client in HTML format. The driver RTE received the output from the System under Test, time-stamped it, and forwarded it to the Master RTE for post-test processing. No other functionality was included on the driver RTE.

Detailed diagrams of the benchmarked and priced configurations are provided in the section called “General Items” at the beginning of this document.

Network Configuration

The network configurations of both the tested services and the proposed (target) services which are being represented and a thorough explanation of exactly which parts of the proposed configuration are being replaced with the Driver System must be disclosed (see Clause 6.6.4). (8.1.7.4)

The client-to-server LAN connections used 100Mbps switched Ethernet for both the measured and priced configurations. The server-to-server connections used a pair of Giganet cLAN5300 switches for both the measured and priced configurations. The server-to-server protocol was TCP/IP.

In the measured configuration, the six LAN segment connections between most of the RTE-client pairs used Ethernet cross-over cables. The link speed for each Ethernet adapter port was set at 10Mbps. On one RTE-client pair, the six LAN segment connections used Type 5 Ethernet cables and 10Mbps Ethernet hubs. Benchcraft was used to generate separate transaction reports for an RTE-client pair that used cross-over cables and an RTE-client pair that used Ethernet hubs. The response time data indicated no difference in performance between the use of hubs vs. cross-over cables. The data was submitted to the auditor. An additional IBM 10/100 Ethernet Server Adapter was installed on each node. This adapter provided connectivity to the IBM campus LAN and served no function during the benchmark. The additional adapter was not included in the priced configuration.

Network Bandwidth

The bandwidth of the network(s) used in the tested/priced configuration must be disclosed. (8.1.7.5)

The Ethernet used in the LAN complies with the IEEE.802.3 standard. The LANs that connected the driver RTEs to the clients had a bandwidth of 10Mbps. The LAN that connected the clients to the server had a bandwidth of 100Mbps.

Operator Intervention

If the configuration requires operator intervention (see Clause 6.6.6), the mechanism and the frequency of this intervention must be disclosed. (8.1.7.6)

The configuration did not require any operator intervention to sustain the reported throughput during the eight-hour period.

Clause 7: Pricing Related Items

Hardware and Software Components

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

Pricing source(s) and effective date(s) must also be reported. (8.1.8.1)

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

A detailed list of all hardware and software, including the 3-year price, is provided in the Executive Summary at the front of this report. All third-party quotations are included in Appendix F at the end of this document.

Availability Date

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

The hardware and operating system software used in this benchmark are currently available. The database software used in this benchmark will be generally available December 7, 2000.

Measured tpmC

A statement of the measured tpmC, as well as the respective calculations for the 5-year pricing, price/performance (price/tpmC) and the availability date must be included. (8.1.8.4)

- Maximum Qualified Throughput: 440,879.95 tpmC
- Price per tpmC: \$25.03 per tpmC
- Three-year cost of ownership: \$11,033,029

Country-Specific Pricing

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

The configuration is priced for the United States of America.

Usage Pricing

For any usage pricing, the sponsor must disclose:

- *Usage level at which the component was priced.*
- *A statement of the company policy allowing such pricing. (8.1.8.6)*

The component pricing based on usage is shown below:

- 32 copies of Microsoft Windows 2000 Advanced Server (one server includes 25 CALs)
- 96 copies of Microsoft Windows 2000 Server, including 25 CALs
- 3-year support for all hardware components (spares were priced for hardware components for which 4-hour response time is not offered)

System Pricing

System pricing should include subtotals for the following components: Server Hardware, Server Software, Client Hardware, Client Software, and Network Components used for terminal connection (see Clause 7.2.2.3). (8.1.8.7)
System pricing must include line item indication where non-sponsoring companies' brands are used. System pricing must also include line item indication of third-party pricing. (8.1.8.8)

A detailed list of all hardware and software, including the 3-year price, is provided in the Executive Summary at the front of this report. All third-party quotations are included in Appendix F at the end of this document.

Clause 9: Audit Related Items

Auditor

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

This implementation of the TPC-C benchmark was audited by Francois Raab of InfoSizing. The auditor's attestation letter is provided in this section.

Availability of the Full Disclosure Report

The Full Disclosure Report must be readily available to the public at a reasonable charge, similar to the charges for similar documents by the test sponsor. The report must be made available when results are made public. In order to use the phrase "TPC BenchmarkTMC," the Full Disclosure Report must have been submitted to the TPC Administrator as well as written permission obtained to distribute same. (8.2)

This implementation of the TPC Benchmark C was audited by Francois Raab of InfoSizing, Inc. Further information may be obtained from:

InfoSizing, Inc.
1373 North Franklin Street
Colorado Springs, CO 80903
Phone: 719-473-7555
Fax: 719-473-7554

Benchmark Sponsors: William D. Hall
 Mgr., Server Systems Performance
 IBM Personal Systems Group
 3039 Cornwallis Road
 Research Triangle Park, NC 27709

April 10, 2001

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

Platform: **IBM @server xSeries 370 c/s**
 Operating system: **Microsoft Windows 2000 Advanced Server**
 Database Manager: **DB2 UDB 7.1**
 Transaction Manager: **Microsoft COM+**

The results were:

CPU's Speed	Memory	Disks	NewOrder 90% Response Time	tpmC
Server: IBM @server xSeries 370 (Specification for each of 32 nodes)				
4 x Pentium III Xeon (700 MHz)	4 GB Main 2 MB L2-cache/cpu	2 x 9.1GB 218 x 18.2GB	2.00 Seconds	440,879.95
Ninety-six (96) Clients: Netfinity 5100 (Specification for each)				
2 x Pentium III (733MHz)	512 MB Main 256 KB L2-cache/cpu	1 x 9.1 GB	n/a	n/a

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

- The database records were the proper size

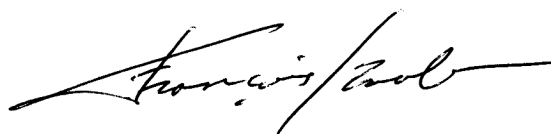
- The database was properly scaled and populated
- The required ACID properties were met
- The transactions were correctly implemented
- Input data was generated according to the specified percentages
- The transaction cycle times included the required keying and think times
- The reported response times were correctly measured.
- All 90% response times were under the specified maximums
- At least 90% of all delivery transactions met the 80 Second completion time limit
- The reported measurement interval was 20 minutes (1200 seconds)
- The reported measurement interval was representative of steady state conditions
- Continuous synch-points was taking place during the reported measurement interval
- The repeatability of the measured performance was verified
- The 60 day storage requirement was correctly computed
- The system pricing was verified for major components and maintenance

Additional Audit Notes:

The measured system included (6,938) 10K-3 Wide Ultra SCSI 18.2GB disks (part number 36L9749) that were substituted by (6,938) 10K Ultra160 SCSI 18.2GB disks (part number 37L7205) in the priced configuration. Based on the specifications of these disks and on additional performance data collected on these disks, it is my opinion that this substitution does not have a material effect on the reported performance.

This benchmark was originally conducted in June 2000 under the TPC-C Version 3. It is now upgraded to TPC-C Version 5 in accordance with the rules defined by the TPC.

Respectfully Yours,



François Raab
President

Appendix A: Source Code

Web Client Source Code

error.h

```
/*      FILE:      ERROR.H
 *
 *      Microsoft TPC-C Kit Ver. 4.20.000
 *      Copyright Microsoft, 1999
 *
 *      All Rights Reserved
 *
 *      Version 4.10.000 audited by Richard
 *      Gimarc, Performance Metrics, 3/17/99
 *
 *      PURPOSE: Header file for error exception classes.
 *
 *      Change history:
 *      4.20.000 - updated rev number to match kit
 *      4.21.000 - fixed bug: ~CBaseErr needed to be declared virtual
 */

#pragma once

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

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

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

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

#define ERR_TYPE_LOGIC -1 //logic error in program; internal error
#define ERR_SUCCESS 0 //success (a non-error error)
#define ERR_BAD_ITEM_ID 1 //expected abort record in txnRecord
#define ERR_TYPE_DELIVERY_POST 2 //expected delivery post failed
#define ERR_TYPE_WEBDLL 3 //tpcc web generated error
#define ERR_TYPE_SQL 4 //sql server generated error
#define ERR_TYPE_DBLIB 5 //dblib generated error
#define ERR_TYPE_ODBC 6 //odbc generated error
#define ERR_TYPE_SOCKET 7 //error on communication socket client rte only
#define ERR_TYPE_DEADLOCK 8 //dblib and odbc only deadlock condition
#define ERR_TYPE_COM 9 //error from COM call
#define ERR_TYPE_TUXEDO 10 //tuxedo error
#define ERR_TYPE_OS 11 //operating system error
#define ERR_TYPE_MEMORY 12 //memory allocation error
```

```
#define ERR_TYPE_TPCC_ODBC 13 //error from tpcc odbc txn module
#define ERR_TYPE_TPCC_DBLIB 14 //error from tpcc dblib txn module
#define ERR_TYPE_DELISRV 15 //delivery server error
#define ERR_TYPE_TXNLOG 16 //txn log error
#define ERR_TYPE_BCCONN 17 //Benchcraft connection class
#define ERR_TYPE_TPCC_CONN 18 //Benchcraft connection class
#define ERR_TYPE_ENCINA 19 //Encina error
#define ERR_TYPE_COMPONENT 20 //error from COM component
#define ERR_TYPE_RTE 21 //Benchcraft rte
#define ERR_TYPE_AUTOMATION 22 //Benchcraft automation errors
#define ERR_TYPE_DB2 23 //db2 generated error

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

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

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

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

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

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

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

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

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

```

        strcpy(m_szMsg, szMsg);
    }

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

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

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

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

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

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

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

};

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

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

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

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

    CSystemErr(Action eAction, LPCTSTR szLocation);

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

    int m_errId;
    Action m_eAction;

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

error text
};

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

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

error text
};

methods.h

/* FILE: METHODS.H
 * Microsoft TPC-C Kit Ver. 4.20.000
 * Copyright Microsoft, 1999
 * All Rights Reserved
 * not yet audited
 * PURPOSE: Header file for COM components.
 * Change history:
 * 4.20.000 - first version
 */

enum COMPONENT_ERROR
{
    ERR_MISSING_REGISTRY_ENTRIES = 1,
    ERR_LOADDLL_FAILED,
    ERR_GETPROCADDR_FAILED,
    ERR_UNKNOWN_DB_PROTOCOL
};

class CCOMPONENT_ERR : public CBaseErr
{
public:
    CCOMPONENT_ERR(COMPONENT_ERROR Err)
    {

```

```

        m_Error = Err;
        m_szTextDetail = NULL;
        m_SystemErr = 0;
        m_szErrorText = NULL;
    };

    CCOMPONENT_ERR(COMPONENT_ERROR Err, char
*szTextDetail, DWORD dwSystemErr)
    {
        m_Error = Err;
        m_szTextDetail = new char[strlen(szTextDetail)+1];
        strcpy( m_szTextDetail, szTextDetail );
        m_SystemErr = dwSystemErr;
        m_szErrorText = NULL;
    };

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

    COMPONENT_ERROR m_Error;
    char                *m_szTextDetail;
    char                *m_szErrorText;
    DWORD              m_SystemErr;

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

static void WriteMessageToEventLog(LPTSTR lpszMsg);

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

    CTPCC_Common();
    ~CTPCC_Common();

// ITPCC
public:
    HRESULT __stdcall NewOrder(          VARIANT txn_in,
    VARIANT* txn_out);
    HRESULT __stdcall Payment(          VARIANT txn_in,
    VARIANT* txn_out);
    HRESULT __stdcall Delivery(          VARIANT txn_in) {return
E_NOTIMPL;};
    HRESULT __stdcall StockLevel(    VARIANT txn_in, VARIANT*
txn_out);
    HRESULT __stdcall OrderStatus(    VARIANT txn_in, VARIANT*
txn_out);

    HRESULT __stdcall CallSetComplete();

// IObjectControl
    STDMETHODCALLTYPE CanBePooled() { return m_bCanBePooled; }
    STDMETHODCALLTYPE Activate() { return S_OK; } // we don't support COM
Services transactions (no enlistment)
    STDMETHODCALLTYPE Deactivate() { /* nothing to do */ }

// IObjectConstruct

```

```

    STDMETHODCALLTYPE Construct(IDispatch * pUnk);

// helper methods
private:
    BOOL                m_bCanBePooled;
    CTPCC_BASE         *m_pTxn;

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

};

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

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

////////////////////////////////////
// CNewOrder
class CNewOrder :
    public CTPCC_Common,
    public CComCoClass<CNewOrder, &CLSID_NewOrder>
{
public:
    DECLARE_REGISTRY_RESOURCEID(IDR_NEWORDER)

    BEGIN_COM_MAP(CNewOrder)
        COM_INTERFACE_ENTRY2(IUnknown, CComObjectRootEx)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
    END_COM_MAP()

// ITPCC
public:
    HRESULT __stdcall NewOrder(          int* iSize, UCHAR** txn)
    {return E_NOTIMPL;};
    HRESULT __stdcall Payment(          VARIANT txn_in,
    VARIANT* txn_out) {return E_NOTIMPL;};
    HRESULT __stdcall StockLevel(    VARIANT txn_in, VARIANT* txn_out)
    {return E_NOTIMPL;};
    HRESULT __stdcall OrderStatus(    VARIANT txn_in, VARIANT* txn_out)
    {return E_NOTIMPL;};
};

////////////////////////////////////
// COrderStatus
class COrderStatus :
    public CTPCC_Common,
    public CComCoClass<COrderStatus, &CLSID_OrderStatus>
{
public:
    DECLARE_REGISTRY_RESOURCEID(IDR_ORDERSTATUS)

    BEGIN_COM_MAP(COrderStatus)
        COM_INTERFACE_ENTRY2(IUnknown, CComObjectRootEx)

```

```

        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
END_COM_MAP()

// ITPCC
public:
    HRESULT __stdcall NewOrder(VARIANT txn_in, VARIANT* txn_out)
    {return E_NOTIMPL;}
    HRESULT __stdcall Payment(VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
    HRESULT __stdcall StockLevel(VARIANT txn_in, VARIANT* txn_out)
    {return E_NOTIMPL;}
    //      HRESULT __stdcall OrderStatus(    int* iSize, UCHAR** txn) {return
E_NOTIMPL;}
};

////////////////////////////////////
// CPayment
class CPayment :
    public CTPCC_Common,
    public CComCoClass<CPayment, &CLSID_Payment>
{
public:
    DECLARE_REGISTRY_RESOURCEID(IDR_PAYMENT)

    BEGIN_COM_MAP(CPayment)
        COM_INTERFACE_ENTRY2(IUnknown, CComObjectRootEx)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
    END_COM_MAP()

    // ITPCC
    public:
        HRESULT __stdcall NewOrder(VARIANT txn_in, VARIANT* txn_out)
        {return E_NOTIMPL;}
        //      HRESULT __stdcall Payment(                int* iSize, UCHAR** txn)
        {return E_NOTIMPL;}
        HRESULT __stdcall StockLevel(VARIANT txn_in, VARIANT* txn_out)
        {return E_NOTIMPL;}
        HRESULT __stdcall OrderStatus(VARIANT txn_in, VARIANT* txn_out)
        {return E_NOTIMPL;}
};

////////////////////////////////////
// CStockLevel
class CStockLevel :
    public CTPCC_Common,
    public CComCoClass<CStockLevel, &CLSID_StockLevel>
{
public:
    DECLARE_REGISTRY_RESOURCEID(IDR_STOCKLEVEL)

    BEGIN_COM_MAP(CStockLevel)
        COM_INTERFACE_ENTRY2(IUnknown, CComObjectRootEx)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
    END_COM_MAP()

    // ITPCC
    public:
        HRESULT __stdcall NewOrder(VARIANT txn_in, VARIANT* txn_out)
        {return E_NOTIMPL;}
        HRESULT __stdcall Payment(VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
        //      HRESULT __stdcall StockLevel(    int* iSize, UCHAR** txn) {return
E_NOTIMPL;}
        HRESULT __stdcall OrderStatus(VARIANT txn_in, VARIANT* txn_out)
        {return E_NOTIMPL;}
};

```

ReadRegistry.cpp

```

/*      FILE:      READREGISTRY.CPP
*      Microsoft TPC-C Kit Ver. 4.20.000

```

```

*      Copyright Microsoft, 1999
*      All Rights Reserved
*
*      not yet audited
*
*      PURPOSE: Implementation for TPC-C Tuxedo class.
*      Contact: Charles Levine (clevine@microsoft.com)
*
*      Change history:
*      4.20.000 - first version
*/

/* FUNCTION: ReadTPCCRegistrySettings
*
*      PURPOSE:      This function reads the NT registry for startup parameters. There
parameters are
*
*      under the TPCC key.
*
*      RETURNS      FALSE = no errors
*      TRUE  = error reading registry
*/
BOOL ReadTPCCRegistrySettings( TPCCREGISTRYDATA *pReg )
{
    HKEY    hKey;
    DWORD   size;
    DWORD   type;
    DWORD   dwTmp;
    char     szTmp[256];

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

    // determine database protocol to use; may be either ODBC or DBLIB
    pReg->eDB_Protocol = Unspecified;
    size = sizeof(szTmp);
    if ( RegQueryValueEx(hKey, "DB_Protocol", 0, &type, (BYTE *)&szTmp,
&size) == ERROR_SUCCESS )
    {
        if ( !strcmp(szTmp, szDBNames[ODBC]) )
            pReg->eDB_Protocol = ODBC;
        else if ( !strcmp(szTmp, szDBNames[DBLIB]) )
            pReg->eDB_Protocol = DBLIB;
        else if ( !strcmp(szTmp, szDBNames[DB2]) )
            pReg->eDB_Protocol = DB2;
    }

    pReg->eTxnMon = None;
    // determine txn monitor to use; may be either TUXEDO, or blank
    size = sizeof(szTmp);
    if ( RegQueryValueEx(hKey, "TxnMonitor", 0, &type, (BYTE *)&szTmp,
&size) == ERROR_SUCCESS )
    {
        if ( !strcmp(szTmp, szTxnMonNames[TUXEDO]) )
            pReg->eTxnMon = TUXEDO;
        else if ( !strcmp(szTmp, szTxnMonNames[ENCINA]) )
            pReg->eTxnMon = ENCINA;
        else if ( !strcmp(szTmp, szTxnMonNames[COM]) )
            pReg->eTxnMon = COM;
    }

    pReg->bCOM_SinglePool = FALSE;
    size = sizeof(szTmp);
    if ( RegQueryValueEx(hKey, "COM_SinglePool", 0, &type, (BYTE
*)&szTmp, &size) == ERROR_SUCCESS )
    {
        if ( !strcmp(szTmp, "YES") )
            pReg->bCOM_SinglePool = TRUE;
    }

    pReg->dwMaxConnections = 0;
    size = sizeof(dwTmp);
    if ( ( RegQueryValueEx(hKey, "MaxConnections", 0, &type,
(LPBYTE)&dwTmp, &size) == ERROR_SUCCESS )
        && (type == REG_DWORD) )
        pReg->dwMaxConnections = dwTmp;

```

```

        pReg->dwMaxPendingDeliveries = 0;
        size = sizeof(dwTmp);
        if ( ( RegQueryValueEx(hKey, "MaxPendingDeliveries", 0, &type,
(LPBYTE)&dwTmp, &size) == ERROR_SUCCESS )
            && (type == REG_DWORD) )
            pReg->dwMaxPendingDeliveries = dwTmp;

        pReg->dwNumberOfDeliveryThreads = 0;
        size = sizeof(dwTmp);
        if ( ( RegQueryValueEx(hKey, "NumberOfDeliveryThreads", 0, &type,
(LPBYTE)&dwTmp, &size) == ERROR_SUCCESS )
            && (type == REG_DWORD) )
            pReg->dwNumberOfDeliveryThreads = dwTmp;

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

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

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

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

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

        RegCloseKey(hKey);

        return FALSE;
}

```

ReadRegistry.h

```

/*      FILE:      ReadRegistry.h
*      Microsoft TPC-C Kit Ver. 4.22.000
*      Copyright Microsoft, 2000
*
*      All Rights Reserved
*
*      not audited
*
*      PURPOSE:  Header for registry related code.
*
*      Change history:
*      4.20.000 - first version
*      4.22.000 - added DB2
*/

```

```

enum DBPROTOCOL { Unspecified, ODBC, DBLIB, DB2 };
const char *szDBNames[] = { "Unspecified", "ODBC", "DBLIB", "DB2" };

```

```

enum TXNMON { None, TUXEDO, ENCINA, COM };
const char *szTxnMonNames[] = { "NONE", "TUXEDO", "ENCINA", "COM" };

```

//This structure defines the data necessary to keep distinct for each terminal or client connection.

```

typedef struct _TPCCREGISTRYDATA
{
    enum DBPROTOCOL eDB_Protocol;
    enum TXNMON eTxnMon;
    BOOL bCOM_SinglePool;
    DWORD dwMaxConnections;
    DWORD dwMaxPendingDeliveries;
    DWORD dwNumberOfDeliveryThreads;

```

```

    char szPath[128];
    char szDbServer[32];
    char szDbName[32];
    char szDbUser[32];
    char szDbPassword[32];
} TPCCREGISTRYDATA, *PTPCCREGISTRYDATA;

BOOL ReadTPCCRegistrySettings( TPCCREGISTRYDATA *pReg );

```

ReadWHouse.cpp

```

/*      FILE:      ReadWHouse.cpp
*      Microsoft TPC-C Kit Ver. 4.20.000
*      Copyright Microsoft, 1999
*
*      All Rights Reserved
*
*      PURPOSE:  define entry points for ReadWHouse.cpp
*      Contact:  Sally Martin (sallym@microsoft.com)
*
*      Change history:
*      4/25/00 - initial version
*/

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

#include <stdlib.h> // db2

#include <assert.h>
#include <time.h>

#define DBNTWIN32
#define DB2NT
#include <sql.h>

#include <sqlcli.h>
#include <sqlcli1.h>

#define DB2OUT "C:\\TMP\\" //db2
#include "sqlenv.h" //db2
#include "lval.h" //db2
#include "sqlca.h" //db2

#define MAXWAREHOUSES 44000 // use to allocate space for local warehouse array

#define SQLSUCCEEDED(rc) (rc == SQL_SUCCESS || rc ==
SQL_SUCCESS_WITH_INFO || rc == SQL_NO_DATA)

// forward decl of routine
static int ProcessError(SQLHANDLE henv, SQLHDBC hdbc, SQLHSTMT hstmt);
static void WriteMessageToEventLog(LPTSTR lpszMsg);

// begin code

int GetWareHouseTable(void **ppWareHouseArray, // array of ints
                      int *piCount,
                      int *piTotalWhs,
                      LPCSTR szUser,

// user name for login
                      LPCSTR szPassword, //
                      password for login
                      LPCSTR szDSN

// name of DSN to use
)
{
    // this routine opens the local database and queries it for the list
    // of local warehouses
    // it allocates space and builds an array of those warehouse ids.
    // first get the number of ids, and allocate the space required
    // the second query gets the actual numbers
    //SELECT W_ID FROM WAREHOUSE WHERE NODENUMBER(W_ID)=
CURRENT NODE ORDER BY W_ID
    //SELECT COUNT (*) FROM WAREHOUSE WHERE
NODENUMBER(W_ID)= CURRENT NODE

```

```

// initialization
unsigned char      szSQLStmt[1024];
RETCODE           rc;
int                iNumWareHouses=0;
int                iTotalWhs=0;
int                iWareHouseNum=0;
int                ii;
int                *pArray = NULL;
SQLHDBC            hdbc = SQL_NULL_HDBC;
SQLHSTMT           hstmt = SQL_NULL_HSTMT;
SQLHANDLE          henv = 0;

rc=SQLSetEnvAttr(henv,
                SQL_ATTR_CONNECTION_POOLING,
                SQL_CP_OFF,
                0);

if (!SQLSUCCEEDED(rc))
    return ProcessError(henv,hdbc,hstmt);

if( SQLAllocEnv(&henv)!= SQL_SUCCESS)
    return ProcessError(henv,hdbc,hstmt);

if( SQLAllocConnect(henv,&hdbc)!= SQL_SUCCESS)
    return ProcessError(henv,hdbc,hstmt);

//
// Set AUTOCOMMIT OFF
//
if( SQLSetConnectOption(hdbc, SQL_AUTOCOMMIT,
SQL_AUTOCOMMIT_OFF)!= SQL_SUCCESS)
    return ProcessError(henv,hdbc,hstmt);

//
// set isolation
//
if ( SQLSetConnectAttr(hdbc, SQL_ATTR_TXN_ISOLATION,
(SQLPOINTER)SQL_TXN_SERIALIZABLE,0) != SQL_SUCCESS )
    return ProcessError(henv,hdbc,hstmt);

//
// Connect to db
//
{
    char                szConnectStr[256];
    char                szOutStr[1024];
    SQLSMALLINT          iOutStrLen;

    sprintf( szConnectStr, "UID=%s;PWD=%s;DSN=%s", szUser,
szPassword, szDSN );

    rc = SQLDriverConnect(hdbc, NULL,
(SQLCHAR*)szConnectStr, sizeof(szConnectStr),
                (SQLCHAR*)szOutStr, sizeof(szOutStr),
                &iOutStrLen, SQL_DRIVER_NOPROMPT );
    if (rc != SQL_SUCCESS && rc !=
SQL_SUCCESS_WITH_INFO)
        return ProcessError(henv,hdbc,hstmt);

    if ( SQLSetConnectOption(hdbc, SQL_CURSOR_HOLD,
SQL_CURSOR_HOLD_OFF) != SQL_SUCCESS)
        return ProcessError(henv,hdbc,hstmt);
}

// find out how large the array needs to be

rc = SQLAllocStmt(hdbc, &hstmt);
if (!SQLSUCCEEDED(rc)) return ProcessError(henv,hdbc,hstmt);

wsprintf((char *)szSQLStmt, "SELECT COUNT (*) FROM WAREHOUSE
WHERE NODENUMBER(W_ID)= current node");

// bind the columns
rc = SQLBindCol(hstmt, 1, SQL_C_LONG, &iNumWareHouses, 0, NULL);
if (!SQLSUCCEEDED(rc)) return ProcessError(henv,hdbc,hstmt);

```

```

// exec the command
rc = SQLExecDirect(hstmt, szSQLStmt, SQL_NTS);
if (!SQLSUCCEEDED(rc)) return ProcessError(henv,hdbc,hstmt);

rc = SQLFetch(hstmt);
if (!SQLSUCCEEDED(rc)) return ProcessError(henv,hdbc,hstmt);

SQLFreeStmt(hstmt, SQL_CLOSE);
if (!SQLSUCCEEDED(rc))
{
    return ProcessError(henv,hdbc,hstmt);
}

// DEBUGDEBUG - hardcode count for right now
iTotalWhs = MAXWAREHOUSES;

if (piTotalWhs)
    *piTotalWhs = iTotalWhs;

// allocate the array

pArray=(int *)malloc(iNumWareHouses* sizeof(int));
*ppWareHouseArray = (void *)pArray;

// select the data and copy to the array

rc = SQLAllocStmt(hdbc, &hstmt);
if (!SQLSUCCEEDED(rc))
{
    free(pArray);
    *ppWareHouseArray = NULL;
    return ProcessError(henv,hdbc,hstmt);
}

wsprintf((char *)szSQLStmt,
        "SELECT W_ID FROM WAREHOUSE WHERE
NODENUMBER(W_ID)= current node ORDER BY W_ID");

// bind the columns
rc = SQLBindCol(hstmt, 1, SQL_C_LONG, &iWareHouseNum, 0, NULL);
if (!SQLSUCCEEDED(rc))
{
    free(pArray);
    *ppWareHouseArray = NULL;
    return ProcessError(henv,hdbc,hstmt);
}

// exec the command
rc = SQLExecDirect(hstmt, szSQLStmt, SQL_NTS);
if (!SQLSUCCEEDED(rc))
{
    free(pArray);
    *ppWareHouseArray = NULL;
    return ProcessError(henv,hdbc,hstmt);
}

// in a loop do the fetches
// loop around the result set using fetch
ii = 0;
while ( (rc = SQLFetch(hstmt)) != SQL_NO_DATA)
{
    if (!SQLSUCCEEDED(rc))
    {
        free(pArray);
        *ppWareHouseArray = NULL;
        return ProcessError(henv,hdbc,hstmt);
    }
    pArray[ii] = iWareHouseNum;
    ii++;
}

if (!SQLSUCCEEDED(rc))
{
    free(pArray);
}

```

```

        *ppWareHouseArray = NULL;
        return ProcessError(henv,hdbc,hstmt);
    }

    *piCount = ii;

    rc=SQLFreeStmt(hstmt,SQL_CLOSE);
    if (!SQLSUCCEEDED(rc)) return ProcessError(henv,hdbc,hstmt);

    // commit all transactions
    rc = SQLEndTran(SQL_HANDLE_ENV,
                    henv,
                    SQL_COMMIT);

    if (!SQLSUCCEEDED(rc))
    {
        free(pArray);
        *ppWareHouseArray = NULL;
        return ProcessError(henv,hdbc,hstmt);
    }

    // cleanup

    rc=SQLDisconnect(hdbc);
    if (!SQLSUCCEEDED(rc)) return ProcessError(henv,hdbc,hstmt);
    rc=SQLFreeHandle(SQL_HANDLE_DBC,hdbc);
    if (!SQLSUCCEEDED(rc)) return ProcessError(henv,hdbc,hstmt);
    rc=SQLFreeEnv(henv);
    if (!SQLSUCCEEDED(rc)) return ProcessError(henv,hdbc,hstmt);

    return (ERROR_SUCCESS);
}

static int ProcessError(SQLHANDLE henv, SQLHDBC hdbc, SQLHSTMT hstmt)
{
    RETCODE          rc;
    SDWORD           lNativeError;
    char             szState[6];
    char             szMsg[SQL_MAX_MESSAGE_LENGTH];
    char             szTmp[6*SQL_MAX_MESSAGE_LENGTH];

    szTmp[0] = 0;
    while (TRUE)
    {
        rc = SQLError(henv, hdbc, hstmt, (BYTE *)&szState,
                    &lNativeError, (BYTE *)&szMsg,
                    sizeof(szMsg), NULL);
        if (rc == SQL_NO_DATA)
            break;

        // quit if there isn't enough room to concatenate error text
        if ( (strlen(szMsg) + 2) > (sizeof(szTmp) - strlen(szTmp)))
            break;

        // include line break after first error msg
        if (szTmp[0] != 0)
            strcat( szTmp, "\n");
        strcat( szTmp, szMsg );
    }

    if (strlen(szTmp) > 0)
    {
        WriteMessageToEventLog( szTmp );
    }

    // cleanup
    SQLFreeStmt(hstmt,SQL_CLOSE);
    SQLDisconnect(hdbc);
    SQLFreeHandle(SQL_HANDLE_DBC,hdbc);

    return (E_FAIL);
}

```

```

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

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

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

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

        (VOID) DeregisterEventSource(hEventSource);
    }
}

```

ReadWHouse.h

```

/*          FILE:          ReadWHouse.h
*
*          Microsoft TPC-C Kit Ver. 4.20.000
*          Copyright Microsoft, 1999
*
*          All Rights Reserved
*
*
*          PURPOSE:  define entry points for ReadWHouse.cpp
*          Contact:   Sally Martin (sallym@microsoft.com)
*
* Change history:
*          4/25/00 - initial version
*/

int GetWareHouseTable(void **ppWareHouseArray, // array of ints
                    int *piCount,
                    int *piTotalWhs,
                    LPCSTR szUser,
                    // user name for login
                    LPCSTR szPassword, //
                    // password for login
                    LPCSTR szDSN
                    // name of DSN to use
);

```

resource.h

```

//{{NO_DEPENDENCIES}}
// Microsoft Developer Studio generated include file.
// Used by tpcc.rc
//
#define IDD_DIALOG1          101

// Next default values for new objects
//
#ifdef APSTUDIO_INVOKED
#ifndef APSTUDIO_READONLY_SYMBOLS
#define _APS_NEXT_RESOURCE_VALUE        102
#define _APS_NEXT_COMMAND_VALUE        40001
#define _APS_NEXT_CONTROL_VALUE        1000
#define _APS_NEXT_SYMED_VALUE          101
#endif
#endif

```

rtetime.h

```
/* FILE: rtetime.h : header file
 * Copyright 1997 Microsoft Corp., All rights reserved.
 *
 * Authors: Charles Levine, Philip Durr
 *
 * Microsoft Corp.
 */

#define MAX_JULIAN_TIME 0x7FFFFFFFFFFFFFFF
#define JULIAN_TIME __int64
#define TC_TIME DWORD
extern "C"
{
    BOOL InitJulianTime(LPSYSTEMTIME lpInitTime);
    JULIAN_TIME GetJulianTime(void);
    DWORD MyTickCount(void);
    void GetJulianAndTC(JULIAN_TIME *pJulian, DWORD *pTC);
    JULIAN_TIME ConvertTo64BitTime(int iYear, int iMonth, int iDay, int iHour, int iMinute, int iSecond);
    JULIAN_TIME Get64BitTime(LPSYSTEMTIME lpInitTime);
    int JulianDay(int yr, int mm, int dd);
    void JulianToTime(JULIAN_TIME julianTS, int* yr, int* mm, int* dd, int* hh, int* mi, int* ss);
    void JulianToCalendar(int day, int* yr, int* mm, int* dd);
}
```

spinlock.h

```
/* FILE: SPINLOCK.H
 *
 * Copyright 1997 Microsoft Corp., All rights reserved.
 *
 * Authors: Mike Parkes, Charles Levine, Philip Durr
 *
 * Microsoft Corp.
 */

#ifndef _INC_Spinlock

const LONG LockClosed = 1;
const LONG LockOpen = 0;

/*****
 *
 * Spinlock and Semaphore locking.
 *
 * This class provides a very conservative locking scheme.
 * The assumption behind the code is that locks will be
 * held for a very short time. When a lock is taken a memory
 * location is exchanged. All other threads that want this
 * lock wait by spinning and sometimes sleeping on a semaphore
 * until it becomes free again. The only other choice is not
 * to wait at all and move on to do something else. This
 * module should normally be used in conjunction with cache
 * aligned memory in minimize cache line misses.
 */
*****/

class Spinlock
{
    // Private data.
    HANDLE Semaphore;
    volatile LONG m_Spinlock;
    volatile LONG Waiting;

#ifdef _DEBUG
    // Counters for debugging builds.
    volatile LONG TotalLocks;
    volatile LONG TotalSleeps;
    volatile LONG TotalSpins;
    volatile LONG TotalWaits;
#endif

public:
    // Public functions.
```

```
Spinlock(void);

inline BOOL ClaimLock(BOOL Wait = TRUE);
inline void ReleaseLock(void);
~Spinlock(void);
// Disabled operations.
Spinlock(const Spinlock & Copy);
void operator=(const Spinlock & Copy);

private:
    // Private functions.
    inline BOOL ClaimSpinlock(volatile LONG *sl);
    void WaitForLock(void);
    void WakeAllSleepers(void);
};

/*****
 *
 * A guaranteed atomic exchange.
 *
 * An attempt is made to claim the Spinlock. This action is
 * guaranteed to be atomic.
 */
*****/

inline BOOL Spinlock::ClaimSpinlock(volatile LONG *Spinlock)
{
    #ifdef _DEBUG
        InterlockedIncrement((LPLONG) & TotalLocks);
    #endif
    return (((*Spinlock) == LockOpen) && (InterlockedExchange(
(LPLONG)Spinlock, LockClosed) == LockOpen));
}

/*****
 *
 * Claim the Spinlock.
 *
 * Claim the lock if available else wait or exit.
 */
*****/

inline BOOL Spinlock::ClaimLock(BOOL Wait)
{
    if (! ClaimSpinlock((volatile LONG*) & m_Spinlock))
    {
        if (Wait)
            WaitForLock();
        return Wait;
    }
    return TRUE;
}

/*****
 *
 * Release the Spinlock.
 *
 * Release the lock and if needed wakeup any sleepers.
 */
*****/

inline void Spinlock::ReleaseLock(void)
{
    m_Spinlock = LockOpen;
    if (Waiting > 0)
        WakeAllSleepers();
}

#define _INC_Spinlock

#endif
```

tpcc.cpp

```
/* FILE: TPCC.C
 *
 * Microsoft TPC-C Kit Ver. 4.20.000
```

```

*                                     Copyright Microsoft, 1999
*
* All Rights Reserved
*
*                                     Version 4.10.000 audited by Richard
Gimarc, Performance Metrics, 3/17/99
*
* PURPOSE: Main module for TPCC.DLL which is an ISAPI service dll.
* Contact: Charles Levine (clevine@microsoft.com)
*
* Change history:
* 4.20.000 - reworked error handling; added options for COM and
Encina txn monitors
*/

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

#include <sqltypes.h>

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

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

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

// Database layer includes
#include "..\..\db_dblib_dll\src\tpcc_dblib.h" // DBLIB implementation
of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h" // ODBC implementation of
TPC-C txns
#include "..\..\db_db2_dll\src\tpcc_odbc_db2.h" // DB2 ODBC
implementation of TPC-C txns

// Txn monitor layer includes
#include "..\..\tm_com_dll\src\tpcc_com.h" // COM
Services implementation on TPC-C txns
#include "..\..\tm_tuxedo_dll\src\tpcc_tux.h" // interface to Tuxedo
libraries
#include "..\..\tm_encina_dll\src\tpcc_enc.h" // interface to Encina
libraries

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

#define LEN_ERR_STRING 256

// defines for Make<Txn>Form calls to distinguish input and output flavors
#define OUTPUT_FORM 0
#define INPUT_FORM 1
#define EOL 10

char szMyComputerName[MAX_COMPUTERNAME_LENGTH+1];

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

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

static CRITICAL_SECTION TermCriticalSection;

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

TYPE_CTPCC_DBLIB *pCTPCC_DBLIB_new;
TYPE_CTPCC_ODBC *pCTPCC_ODBC_new;
TYPE_CTPCC_TUXEDO *pCTPCC_TUXEDO_new;
TYPE_CTPCC_ENCINA *pCTPCC_ENCINA_new;
TYPE_CTPCC_ENCINA *pCTPCC_ENCINA_post_init;
TYPE_CTPCC_COM *pCTPCC_COM_new;
TYPE_CTPCC_ODBC_DB2 *pCTPCC_ODBC_DB2_new;

// For deferred Delivery txns:

CTxnLog //used to log delivery transaction information

*txnDelilog = NULL;

HANDLE hWorkerSemaphore =
INVALID_HANDLE_VALUE;
HANDLE hDoneEvent
= INVALID_HANDLE_VALUE;
HANDLE *pDeliHandles
= NULL;

// configuration settings from registry
TPCCREGISTRYDATA Reg;

DWORD dwNumDeliveryThreads =
4;
CRITICAL_SECTION DelBuffCriticalSection; //critical
section for delivery transactions cache
DELIVERY_TRANSACTION *pDelBuff
= NULL;
DWORD dwDelBuffSize
= 100; // size of circular buffer for deliverytxns
DWORD dwDelBuffFreeCount;

DWORD dwDelBuffBusyIndex =
0; // index position of entry waiting to be delivered
DWORD dwDelBuffFreeIndex =
0; // index position of unused entry

#define MAXWHS 60001
BYTE *pbLocalWhsTbl=NULL;
#ifdef COUNTSPLIT
LONG gdwLocalNOCnt = 0;
LONG gdwRemoteNOCnt = 0;
LONG gdwLocalPayCnt = 0;
LONG gdwRemotePayCnt = 0;
#endif

#include "..\..\common\src\ReadRegistry.cpp"
#include "ReadWHouse.h"

/* FUNCTION: DllMain
*
* PURPOSE: This function is the entry point for the DLL. This implementation
is based on the
* fact that DLL_PROCESS_ATTACH is only called
from the inet service once.
*
* ARGUMENTS: HANDLE hModule
module handle
* DWORD ul_reason_for_call
reason for call

```

<pre> * reserved for future use * * RETURNS: BOOL FALSE errors occurred in initialization * DLL successfully initialized TRUE */ BOOL APIENTRY DllMain(HANDLE hModule, DWORD ul_reason_for_call, LPVOID lpReserved) { DWORD i; char szEvent[LEN_ERR_STRING] = "0"; char szLogFile[128]; char szDllName[128]; BOOL fComment = FALSE; int cbSize=0; int iWhs = 0; int *pWareHouseArray=NULL; int iCount = 0; int iLoop=0; int iTotlWhs=0; try { switch(ul_reason_for_call) { case DLL_PROCESS_ATTACH: { DWORD dwSize = MAX_COMPUTERNAME_LENGTH+1; GetComputerName(szMyComputerName,&dwSize); szMyComputerName[dwSize] = 0; } DisableThreadLibraryCalls((HMODULE)hModule); InitializeCriticalSection(&TermCriticalSection); if (ReadTPCCRegistrySettings(&Reg) throw new CWEBClntErr(ERR_MISSING_REGISTRY_ENTRIES); dwDelBuffSize = min(Reg.dwMaxPendingDeliveries, 10000); // min with 10000 as a sanity constraint dwNumDeliveryThreads = min(Reg.dwNumberOfDeliveryThreads, 100); // min with 100 as a sanity constraint TermInit(); // load DLL for txn monitor if (Reg.eTxnMon == TUXEDO) { strcpy(szDllName, Reg.szPath); strcat(szDllName, "tpcc_tuxedo.dll"); hLibInstanceTm = LoadLibrary(szDllName); if (hLibInstanceTm == NULL) throw new CWEBClntErr(ERR_LOADDLL_FAILED, szDllName, GetLastError()); // get function pointer to wrapper for class constructor pCTPCC_TUXEDO_new = (TYPE_CTPCC_TUXEDO*) GetProcAddress(hLibInstanceTm,"CTPCC_TUXEDO_new"); if (pCTPCC_TUXEDO_new == NULL) throw new CWEBClntErr(ERR_GETPROCADDR_FAILED, szDllName, GetLastError()); </pre>	<pre> } else if (Reg.eTxnMon == ENCINA) { strcpy(szDllName, Reg.szPath); strcat(szDllName, "tpcc_encina.dll"); hLibInstanceTm = LoadLibrary(szDllName); if (hLibInstanceTm == NULL) throw new CWEBClntErr(ERR_LOADDLL_FAILED, szDllName, GetLastError()); // get function pointer to wrapper for class constructor pCTPCC_ENCINA_new = (TYPE_CTPCC_ENCINA*) GetProcAddress(hLibInstanceTm,"CTPCC_ENCINA_new"); pCTPCC_ENCINA_post_init = (TYPE_CTPCC_ENCINA*) GetProcAddress(hLibInstanceTm,"CTPCC_ENCINA_post_init"); if (pCTPCC_ENCINA_new == NULL) throw new CWEBClntErr(ERR_GETPROCADDR_FAILED, szDllName, GetLastError()); } else if (Reg.eTxnMon == COM) { strcpy(szDllName, Reg.szPath); strcat(szDllName, "tpcc_com.dll"); hLibInstanceTm = LoadLibrary(szDllName); if (hLibInstanceTm == NULL) throw new CWEBClntErr(ERR_LOADDLL_FAILED, szDllName, GetLastError()); // get function pointer to wrapper for class constructor pCTPCC_COM_new = (TYPE_CTPCC_COM*) GetProcAddress(hLibInstanceTm,"CTPCC_COM_new"); if (pCTPCC_COM_new == NULL) throw new CWEBClntErr(ERR_GETPROCADDR_FAILED, szDllName, GetLastError()); GetWareHouseTable((void **) &pWareHouseArray, // array of ints &iCount, &iTotlWhs, Reg.szDbUser, Reg.szDbPassword, // Reg.szDbName); pbLocalWhsTbl = (BYTE *) malloc(sizeof(BYTE)*iTotlWhs+ 1); if (!pbLocalWhsTbl) throw new CWEBClntErr(ERR_GETPROCADDR_FAILED, szDllName, GetLastError()); memset((void*)pbLocalWhsTbl,0,sizeof(BYTE)*iTotlWhs+ 1); for (iLoop=0;iLoop<iCount;iLoop++) { </pre>
--	--

<pre> if (pWareHouseArray[iLoop] < (int)iTotalWhs) pbLocalWhsTbl[pWareHouseArray[iLoop]] = 1; //local warehouse } free((void*)pWareHouseArray); } // load DLL for database connection if ((Reg.eTxnMon == None) (dwNumDeliveryThreads > 0)) { if (Reg.eDB_Protocol == DBLIB) { strcpy(szDllName, Reg.szPath); strcat(szDllName, "tpcc_dblib.dll"); hLibInstanceDb = LoadLibrary(szDllName); if (hLibInstanceDb == NULL) throw new CWEBCLNT_ERR(ERR_LOADDLL_FAILED, szDllName, GetLastError()); // get function pointer to wrapper for class constructor pCTPCC_DBLIB_new = (TYPE_CTPCC_DBLIB*) GetProcAddress(hLibInstanceDb, "CTPCC_DBLIB_new"); if (pCTPCC_DBLIB_new == NULL) throw new CWEBCLNT_ERR(ERR_GETPROCADDR_FAILED, szDllName, GetLastError()); } else if (Reg.eDB_Protocol == ODBC) { strcpy(szDllName, Reg.szPath); strcat(szDllName, "tpcc_odbc.dll"); hLibInstanceDb = LoadLibrary(szDllName); if (hLibInstanceDb == NULL) throw new CWEBCLNT_ERR(ERR_LOADDLL_FAILED, szDllName, GetLastError()); // get function pointer to wrapper for class constructor pCTPCC_ODBC_new = (TYPE_CTPCC_ODBC*) GetProcAddress(hLibInstanceDb, "CTPCC_ODBC_new"); if (pCTPCC_ODBC_new == NULL) throw new CWEBCLNT_ERR(ERR_GETPROCADDR_FAILED, szDllName, GetLastError()); } else if (Reg.eDB_Protocol == DB2) { strcpy(szDllName, Reg.szPath); strcat(szDllName, "tpcc_db2.dll"); hLibInstanceDb = LoadLibrary(szDllName); if (hLibInstanceDb == NULL) throw new CWEBCLNT_ERR(ERR_LOADDLL_FAILED, szDllName, GetLastError()); } } } } </pre>	<pre> // get function pointer to wrapper for class constructor pCTPCC_ODBC_DB2_new = (TYPE_CTPCC_ODBC_DB2*) GetProcAddress(hLibInstanceDb, "CTPCC_ODBC_DB2_new"); if (pCTPCC_ODBC_DB2_new == NULL) throw new CWEBCLNT_ERR(ERR_GETPROCADDR_FAILED, szDllName, GetLastError()); } } if (dwNumDeliveryThreads) { // for deferred delivery txns: hDoneEvent = CreateEvent(NULL, TRUE /* manual reset */, FALSE /* initially not signalled */, NULL); InitializeCriticalSection(&DelBuffCriticalSection); hWorkerSemaphore = CreateSemaphore(NULL, 0, dwDelBuffSize, NULL); dwDelBuffFreeCount = dwDelBuffSize; InitJulianTime(NULL); // create unique log file name based on delilog-yymmdd-hhmm.log SYSTEMTIME Time; GetLocalTime(&Time); wsprintf(szLogFile, "%sdelivery-%2.2d%2.2d%2.2d-%2.2d%2.2d.log", Reg.szPath, Time.wYear % 100, Time.wMonth, Time.wDay, Time.wHour, Time.wMinute); txnDelilog = new CTxnLog(szLogFile, TXN_LOG_WRITE); //write event into txn log for START txnDelilog->WriteCtrlRecToLog(TXN_EVENT_START, szMyComputerName, sizeof(szMyComputerName)); // allocate structures for delivery buffers and thread mgmt pDeliHandles = new HANDLE[dwNumDeliveryThreads]; pDelBuff = new DELIVERY_TRANSACTION[dwDelBuffSize]; // launch DeliveryWorkerThread to perform actual delivery txns for(i=0; i<dwNumDeliveryThreads; i++) { pDeliHandles[i] = (HANDLE) _beginthread(DeliveryWorkerThread, 0, NULL); if (pDeliHandles[i] == INVALID_HANDLE_VALUE) throw new CWEBCLNT_ERR(ERR_DELIVERY_THREAD_FAILED); } break; case DLL_PROCESS_DETACH: if (dwNumDeliveryThreads) { if (txnDelilog != NULL) { </pre>
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<pre> into txn log for STOP txnDelilog->WriteCtrlRecToLog(TXN_EVENT_STOP,szMyComputerName, sizeof(szMyComputerName)); a clean shutdown of the delivery log file *txnDelilogLocal= txnDelilog; NULL; txnDelilogLocal; } delete [] pDeliHandles; delete [] pDelIBuff; CloseHandle(hWorkerSemaphore);); DeleteCriticalSection(&DelBuffCriticalSection); DeleteCriticalSection(&TermCriticalSection); if (hLibInstanceTm != NULL) FreeLibrary(hLibInstanceTm); hLibInstanceTm = NULL; if (hLibInstanceDb != NULL) FreeLibrary(hLibInstanceDb); hLibInstanceDb = NULL; Sleep(500); break; default: /* nothing */; } catch (CBaseErr *e) { WriteMessageToEventLog(e->ErrorText()); delete e; TerminateExtension(0); return FALSE; } catch (...) { WriteMessageToEventLog(TEXT("Unhandledexception. DLL could not load.)); TerminateExtension(0); return FALSE; } return TRUE; } /* FUNCTION: GetExtensionVersion * * PURPOSE: This function is called by theinet service when the DLL is first loaded. * * ARGUMENTS: HSE_VERSION_INFO *pVer passed in structure in which to place expected version number. * * RETURNS: TRUE inet service expected return value. */ BOOL WINAPI GetExtensionVersion(HSE_VERSION_INFO *pVer) </pre>	<pre> //write event // This will do CTxnLog txnDelilog= delete CloseHandle(hDoneEvent </pre>	<pre> { pVer->dwExtensionVersion = MAKELONG(HSE_VERSION_MINOR, HSE_VERSION_MAJOR); lstrcpy(pVer->lpszExtensionDesc, "TPC-C Server.", HSE_MAX_EXT_DLL_NAME_LEN); // TODO: why do we need this here instead of in the DLL attach? if (Reg.eTxnMon == ENCINA) pCTPCC_ENCINA_post_init(); return TRUE; } /* FUNCTION: TerminateExtension * * PURPOSE: This function is called by theinet service when the DLL is about to be unloaded. * * ARGUMENTS: Release all resources in anticipation of being unloaded. * * RETURNS: TRUE inet service expected return value. */ BOOL WINAPI TerminateExtension(DWORD dwFlags) { if (pDeliHandles) { SetEvent(hDoneEvent); for(DWORD i=0; i<dwNumDeliveryThreads;i++) WaitForSingleObject(pDeliHandles[i], INFINITE); } TermDeleteAll(); return TRUE; } /* FUNCTION: HttpExtensionProc * * PURPOSE: This function is the main entry point for theTPCC DLL. The internet service * * ARGUMENTS: EXTENSION_CONTROL_BLOCK *pECB structure pointer to passed in internet * * RETURNS: service information. * * RETURNS: DWORD HSE_STATUS_SUCCESS connection can be dropped if error * * COMMENTS: HSE_STATUS_SUCCESS_AND_KEEP_CONN keep connect valid comment sent None */ DWORD WINAPI HttpExtensionProc(EXTENSION_CONTROL_BLOCK *pECB) { int iCmd, FormId, TermId, iSyncId; char szBuffer[4096]; int lpbSize; static char szHeader[] = "200 Ok"; DWORD dwSize = 6; // initial value is strlen(szHeader) char szHeader1[4096]; #ifdef ICECAP StartCAP(); #endif try { //process http query ProcessQueryString(pECB, &iCmd, &FormId, &TermId, &iSyncId); </pre>
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<pre> if (TermId != 0) { if (TermId < 0 TermId >= Term.iNumEntries Term.pClientData[TermId].iNextFree!= -1) { // debugging... char szTmp[128]; wsprintf(szTmp, "Invalid term ID; TermId = %d", TermId); WriteMessageToEventLog(szTmp); throw new CWEBCLNT_ERR(ERR_INVALID_TERMID); } //must have a valid syncid here since termid is valid if (iSyncId != Term.pClientData[TermId].iSyncId) throw new CWEBCLNT_ERR(ERR_INVALID_SYNC_CONNECTION); //set use time Term.pClientData[TermId].iTickCount= GetTickCount(); } switch(iCmd) { case 0: WelcomeForm(pECB, szBuffer); break; case 1: switch(FormId) { case WELCOME_FORM: case MAIN_MENU_FORM: break; case NEW_ORDER_FORM: ProcessNewOrderForm(pECB, TermId, szBuffer); break; case PAYMENT_FORM: ProcessPaymentForm(pECB, TermId, szBuffer); break; case DELIVERY_FORM: ProcessDeliveryForm(pECB, TermId, szBuffer); break; case ORDER_STATUS_FORM: ProcessOrderStatusForm(pECB, TermId, szBuffer); break; case STOCK_LEVEL_FORM: ProcessStockLevelForm(pECB, TermId, szBuffer); break; } case 2: // new-order selected from menu; display new-order input form MakeNewOrderForm(TermId, NULL, INPUT_FORM, szBuffer); case 3: // payment selected from menu; display payment input form MakePaymentForm(TermId, NULL, INPUT_FORM, szBuffer); case 4: // delivery selected from menu; display delivery input form MakeDeliveryForm(TermId, NULL, INPUT_FORM, szBuffer); break; </pre>	<pre> case 5: // order-status selected from menu; display order-status input form MakeOrderStatusForm(TermId, NULL, INPUT_FORM, szBuffer); break; case 6: // stock-level selected from menu; display stock-level input form MakeStockLevelForm(TermId, NULL, INPUT_FORM, szBuffer); break; case 7: // ExitCmd TermDelete(TermId); WelcomeForm(pECB, szBuffer); break; case 8: SubmitCmd(pECB, szBuffer); break; case 9: // menu MakeMainMenuForm(TermId, Term.pClientData[TermId].iSyncId, szBuffer); break; case 10: // CMD=Clear // resets all connections; should only be used when no other connections are active TermDeleteAll(); TermInit(); WelcomeForm(pECB, szBuffer); break; case 11: // CMD=Stats StatsCmd(pECB, szBuffer); break; } catch (CBaseErr *e) { ErrorForm(pECB, e->ErrorType(), e->ErrorNum(), TermId, iSyncId, e->ErrorText(), szBuffer); delete e; } catch (...) { ErrorForm(pECB, ERR_TYPE_WEBDLL, 0, TermId, iSyncId, "Error: Unhandled exception in Web Client.", szBuffer); } #ifdef ICECAP StopCAP(); #endif lpbSize = strlen(szBuffer); wsprintf(szHeader1, "Content-Type: text/html\r\n" "Content-Length: %d\r\n" "Connection: Keep-Alive\r\n\r\n", lpbSize); strcat(szHeader1, szBuffer); (*pECB->ServerSupportFunction)(pECB->ConnID, HSE_REQ_SEND_RESPONSE_HEADER, szHeader, (LPDWORD) &dwSize, (LPDWORD)szHeader1); //finish up and keep connection pECB->dwHttpStatusCode = 200; return HSE_STATUS_SUCCESS_AND_KEEP_CONN; } void WriteMessageToEventLog(LPTSTR lpszMsg) { TCHAR szMsg[256]; HANDLE hEventSource; LPTSTR lpszStrings[2]; </pre>
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```

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

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

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

    (VOID) DeregisterEventSource(hEventSource);
}

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

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

    DELIVERY_TRANSACTION delivery;
    PDELIVERY_DATA
pDeliveryData;
    TXN_RECORD_TPCC_DELIV_DEF txnDeliRec;

    DWORD index;
    HANDLE handles[2];

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

    assert(txnDeliLog != NULL);

    try
    {
        if (Reg.eDB_Protocol == ODBC)
            pTxn = pCTPCC_ODBC_new( Reg.szDbServer,
Reg.szDbUser, Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol == DBLIB)
            pTxn = pCTPCC_DBLIB_new( Reg.szDbServer,
Reg.szDbUser, Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol == DB2)
            pTxn = pCTPCC_ODBC_DB2_new(
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword, szMyComputerName,
Reg.szDbName );

        pDeliveryData = pTxn->BuffAddr_Delivery();
    }
    catch (CBaseErr *e)
    {
        char szTmp[1024];

```

```

        wsprintf( szTmp, "Error in Delivery Txn thread. Could not
connect to database. "
        "%s. Server=%s, User=%s,
        Password=%s, Database=%s",
        e->ErrorText(), Reg.szDbServer,
        Reg.szDbUser, Reg.szDbPassword, Reg.szDbName );
        WriteMessageToEventLog( szTmp );
        delete e;
        goto ErrorExit;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandledexception caught in
DeliveryWorkerThread.));
        goto ErrorExit;
    }

    while (TRUE)
    {
        try
        {
            //while delivery thread running, i.e. user has not
            requested termination

            while (TRUE)
            {
                // need to wait for multiple objects:
                program exit or worker semaphore;
                handles[0] = hDoneEvent;
                handles[1] = hWorkerSemaphore;
                index = WaitForMultipleObjects( 2,
                &handles[0], FALSE, INFINITE );
                if (index == WAIT_OBJECT_0)
                    goto ErrorExit;

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

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

                LeaveCriticalSection(&DelBuffCriticalSection);

                pDeliveryData->w_id = delivery.w_id;
                pDeliveryData->o_carrier_id =
                delivery.o_carrier_id;

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

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

                //log txn
                txnDeliRec.TxnStatus =
                ERR_SUCCESS;
                for (int i=0; i<10; i++)
                    txnDeliRec.o_id[i] =
                pDeliveryData->o_id[i];
                txnDeliRec.DeltaT4 =
                (int)(Get64BitTime(&trans_end)- txnDeliRec.TxnStartT0);

```

```

        txnDeliRec.DeltaTxnExec =
(int)(Get64BitTime(&trans_end)- Get64BitTime(&trans_start));

        if (txnDeliLog != NULL)

txnDeliLog->WriteToLog(&txnDeliRec);
    }
    catch (CBaseErr *e)
    {
        char szTmp[1024];
        wsprintf( szTmp, "Error in Delivery Txn thread. %s",
e->ErrorText() );
        WriteMessageToEventLog( szTmp );

        // log the error txn
        txnDeliRec.TxnStatus = e->ErrorType();
        if (txnDeliLog != NULL)
            txnDeliLog->WriteToLog(&txnDeliRec);

        delete e;
    }
    catch (...)
    {
        // unhandled exception; shouldn't happen; not much
        WriteMessageToEventLog(TEXT("Unhandled
exception caught in DeliveryWorkerThread."));
    }

ErrorExit:
    delete pTxn;
    _endthread();
}

/* FUNCTION: PostDeliveryInfo
*
* PURPOSE:          This function enters the deliverytxn into the deferred delivery
buffer.
*
* RETURNS:          BOOL      FALSE      delivery information posted
successfully
*
*                   TRUE
error cannot post delivery info
*/

BOOL PostDeliveryInfo(long w_id, short o_carrier_id)
{
    BOOL bError;

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

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

        if at end of buffer
        }
        else

        // No free buffers. Return an error, which indicates that the
delivery buffer is full.

        // Most likely, the number of delivery worker threads needs to be
increased to keep up

        // with the txn rate.
        bError = TRUE;
        LeaveCriticalSection(&DelBuffCriticalSection);

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

```

```

    }
    return bError;
}

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

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

    //allowable client command strings i.e.CMD=command
    static char *szCmds[] =
    {
        "Process", "..NewOrder..", "..Payment..", "..Delivery..",
"..Order-Status..", "..Stock-Level..",
        "..Exit..", "Submit", "Menu", "Clear", "Stats", ""
    };

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

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

    // parse FORMID, TERMID, and SYNCID
    *pFormId = GetIntKeyValue(&ptr, "FORMID", NO_ERR, NO_ERR);
    *pTermId = GetIntKeyValue(&ptr, "TERMID", NO_ERR, NO_ERR);
    *pSyncId = GetIntKeyValue(&ptr, "SYNCID", NO_ERR, NO_ERR);

    // parse CMD
    GetKeyValue(&ptr, "CMD", szBuffer, sizeof(szBuffer),
ERR_COMMAND_UNDEFINED);

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

/* FUNCTION: void WelcomeForm
*
*
*/

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

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

"<B><BIG>Microsoft TPC-C Web Client (ver 4.20)</BIG></B> <BR> <BR>"

"face=\"Courier New\"><PRE>"

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        int d_id = GetIntKeyValue(&ptr, "d_id", ERR_HTML_ILL_FORMED,
ERR_D_ID_INVALID);
        if ( d_id < 1 || d_id > 10 )
            throw new CWEBCLNT_ERR( ERR_D_ID_INVALID );

        iNewTerm = TermAdd();

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

        try
        {
            if (Reg.eTxnMon == TUXEDO)
                Term.pClientData[iNewTerm].pTxn =
pCTPCC_TUXEDO_new();
            else if (Reg.eTxnMon == ENCINA)
                Term.pClientData[iNewTerm].pTxn =
pCTPCC_ENCINA_new();
            else if (Reg.eTxnMon == COM)
                Term.pClientData[iNewTerm].pTxn =
pCTPCC_COM_new( Reg.bCOM_SinglePool );
            else if (Reg.eDB_Protocol == ODBC)
                Term.pClientData[iNewTerm].pTxn =
pCTPCC_ODBC_new( szServer, szUser, szPassword, szMyComputerName, szDatabase );
            else if (Reg.eDB_Protocol == DBLIB)
                Term.pClientData[iNewTerm].pTxn =
pCTPCC_DBLIB_new( szServer, szUser, szPassword, szMyComputerName, szDatabase );
            else if (Reg.eDB_Protocol == DB2)
                Term.pClientData[iNewTerm].pTxn =
pCTPCC_ODBC_DB2_new( szServer, szUser, szPassword, szMyComputerName,
szDatabase );

        }
        catch (...)
        {
            TermDelete(iNewTerm);
            throw; // pass exception upward
        }

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

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

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

    EnterCriticalSection(&TermCriticalSection);

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

    LeaveCriticalSection(&TermCriticalSection);

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

char *CWEBCLNT_ERR::ErrorText()
{

```

```

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

    {
        ERR_D_ID_INVALID,
        "Invalid District ID Must be 1 to 10."
    },

    {
        ERR_DELIVERY_CARRIER_ID_RANGE,
        "Delivery Carrier ID out of range must be 1 - 10."
    },

    {
        ERR_DELIVERY_CARRIER_INVALID,
        "Delivery Carrier ID invalid must be numeric 1 - 10."
    },

    {
        ERR_DELIVERY_MISSING_OCD_KEY,
        "Delivery missing Carrier ID key \"OCD*\"."
    },

    {
        ERR_DELIVERY_THREAD_FAILED,
        "Could not start delivery worker thread."
    },

    {
        ERR_GETPROCADDR_FAILED,
        "Could not map proc in DLL. GetProcAddr error. DLL="
    },

    {
        ERR_HTML_ILL_FORMED,
        "Required key field is missing from HTML string."
    },

    {
        ERR_INVALID_SYNC_CONNECTION,
        "Invalid Terminal Sync ID."
    },

    {
        ERR_INVALID_TERMID,
        "Invalid Terminal ID."
    },

    {
        ERR_LOADDLL_FAILED,
        "Load of DLL failed. DLL="
    },

    {
        ERR_MAX_CONNECTIONS_EXCEEDED,
        "No connections available. Max Connections is probably too low."
    },

    {
        ERR_MISSING_REGISTRY_ENTRIES,
        "Required registry entries are missing. Rerun INSTALL to correct."
    },

    {
        ERR_NEWORDER_CUSTOMER_INVALID,
        "New Order customer id invalid data type, range = 1 to 3000."
    },

    {
        ERR_NEWORDER_CUSTOMER_KEY,
        "New Order missing Customer key \"CID*\"."
    },

    {
        ERR_NEWORDER_DISTRICT_INVALID,
        "New Order District ID Invalid range 1 - 10."
    },

    {
        ERR_NEWORDER_FORM_MISSING_DID,
        "New Order missing District key \"DID*\"."
    },

    {
        ERR_NEWORDER_ITEMID_INVALID,
        "New Order Item Id is wrong data type, must be numeric."
    },

    {
        ERR_NEWORDER_ITEMID_RANGE,
        "New Order Item Id is out of range. Range = 1 to 999999."
    },

    {
        ERR_NEWORDER_ITEMID_WITHOUT_SUPPW,
        "New Order Item_Id field entered without a corresponding Supp_W."
    },

    {
        ERR_NEWORDER_MISSING_IID_KEY,
        "New Order missing Item Id key \"IID*\"."
    },

    {
        ERR_NEWORDER_MISSING_QTY_KEY,
        "New Order Missing Qty key \"Qty##*\"."
    },

    {
        ERR_NEWORDER_MISSING_SUPPW_KEY,
        "New Order missing Supp_W key \"SP##*\"."
    },

    {
        ERR_NEWORDER_NOITEMS_ENTERED,
        "New Order No order lines entered."
    },

    {
        ERR_NEWORDER_QTY_INVALID,
        "New Order Qty invalid must be numeric range 1 - 99."
    },

    {
        ERR_NEWORDER_QTY_RANGE,
        "New Order Qty is out of range. Range = 1 to 99."
    },

```

```

        {
            ERR_NEWORDER_QTY_WITHOUT_SUPPW,
            "New Order Qty field entered without a corresponding Supp_W."
        },
        {
            ERR_NEWORDER_SUPPW_INVALID,
            "New Order Supp_W invalid data type must be numeric."
        },
        {
            ERR_NO_SERVER_SPECIFIED,
            "No Server name specified."
        },
        {
            ERR_ORDERSTATUS_CID_AND_CLT,
            "Order Status Only Customer ID or Last Name may be entered, not both."
        },
        {
            ERR_ORDERSTATUS_CID_INVALID,
            "Order Status Customer ID invalid, range must be numeric 1 - 3000."
        },
        {
            ERR_ORDERSTATUS_CLT_RANGE,
            "Order Status Customer last name longer than 16 characters."
        },
    },
    {
        ERR_ORDERSTATUS_DID_INVALID,
        "Order Status District invalid, value must be numeric 1 - 10."
    },
    {
        ERR_ORDERSTATUS_MISSING_CID_CLT,
        "Order Status Either Customer ID or Last Name must be entered."
    },
    {
        ERR_ORDERSTATUS_MISSING_CID_KEY,
        "Order Status missing Customer key \"CID*\"."
    },
    {
        ERR_ORDERSTATUS_MISSING_CLT_KEY,
        "Order Status missing Customer Last Name key \"CLT*\"."
    },
    {
        ERR_ORDERSTATUS_MISSING_DID_KEY,
        "Order Status missing District key \"DID*\"."
    },
    {
        ERR_PAYMENT_CDI_INVALID,
        "Payment Customer district invalid must be numeric."
    },
    {
        ERR_PAYMENT_CID_AND_CLT,
        "Payment Only Customer ID or Last Name may be entered, not both."
    },
    {
        ERR_PAYMENT_CUSTOMER_INVALID,
        "Payment Customer data type invalid, must be numeric."
    },
    {
        ERR_PAYMENT_CWI_INVALID,
        "Payment Customer Warehouse invalid, must be numeric."
    },
    {
        ERR_PAYMENT_DISTRICT_INVALID,
        "Payment District ID is invalid, must be 1 - 10."
    },
    {
        ERR_PAYMENT_HAM_INVALID,
        "Payment Amount invalid data type must be numeric."
    },
    {
        ERR_PAYMENT_HAM_RANGE,
        "Payment Amount out of range, 0 - 9999.99."
    },
    {
        ERR_PAYMENT_LAST_NAME_TO_LONG,
        "Payment Customer last name longer than 16 characters."
    },
    {
        ERR_PAYMENT_MISSING_CDI_KEY,
        "Payment missing Customer district key \"CDI*\"."
    },
    {
        ERR_PAYMENT_MISSING_CID_CLT,
        "Payment Either Customer ID or Last Name must be entered."
    },
    {
        ERR_PAYMENT_MISSING_CID_KEY,
        "Payment missing Customer Key \"CID*\"."
    },
    {
        ERR_PAYMENT_MISSING_CLT_KEY,
        "Payment missing Customer Last Name key \"CLT*\"."
    },
    {
        ERR_PAYMENT_MISSING_CWI_KEY,
        "Payment missing Customer Warehouse key \"CWI*\"."
    },
    {
        ERR_PAYMENT_MISSING_DID_KEY,
        "Payment missing District Key \"DID*\"."
    },
    {
        ERR_PAYMENT_MISSING_HAM_KEY,
        "Payment missing Amount key \"HAM*\"."
    },
    {
        ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
        "Stock Level; missing Threshold key \"TT*\"."
    },
    {
        ERR_STOCKLEVEL_THRESHOLD_INVALID,
        "Stock Level; Threshold value must be in the range = 1 - 99."
    },
    },
    {
        ERR_STOCKLEVEL_THRESHOLD_RANGE,
        "Stock Level Threshold out of range, range must be 1 - 99."
    },
    {
        ERR_VERSION_MISMATCH,
        "Invalid version field. RTE and Web Client are probably out of sync."
    },
    {
        ERR_W_ID_INVALID,
        "Invalid Warehouse ID."
    },
    {
        0,
        ""
    },
    },
};

char szTmp[256];
int i = 0;
while (TRUE)
{
    if (errorMsgs[i].szMsg[0] == 0)
    {
        strcpy( szTmp, "Unknown error number." );
        break;
    }
    if (m_Error == errorMsgs[i].iError)
    {
        strcpy( szTmp, errorMsgs[i].szMsg );
        break;
    }
    i++;
}

if (m_szTextDetail)
    strcat( szTmp, m_szTextDetail );
if (m_SystemErr)
    wsprintf( szTmp+strlen(szTmp), " Error=%d", m_SystemErr);

m_szErrorText = new char[strlen(szTmp)+1];
strcpy( m_szErrorText, szTmp );
return m_szErrorText;
}

/* FUNCTION: GetKeyValue
*
* PURPOSE:          This function parses a http formatted string for specific key values.
*
* ARGUMENTS:      char *pQueryString
                  http string from client browser
*
* pKey             char
                  key value to look for
*
* pValue           char
                  character array into which to place key's value
*
* iMax             int
                  maximum length of key value array.
*
* err              WEBERROR
                  error value to throw
*
* RETURNS:         nothing.
*
* ERROR:           if (the pKey value is not found) then
*
*                  if (err == 0)
*                      return (empty string)
*
*                  else
*                      throw
*
* CWEBCLNT_ERR(err)
*
* COMMENTS:       http keys are formatted either KEY=value& or KEY=value\0. This
                  DLL formats
*
*                  TPC-C input fields in such a manner that
                  the keys can be extracted in the
*
*                  above manner.
*/

void GetKeyValue(char **pQueryString, char *pKey, char *pValue, int iMax, WEBERROR err)
{

```

```

char *ptr;

if ( !(ptr=strstr(*pQueryString,pKey)) )
    goto ErrorExit;
ptr += strlen(pKey);
if ( *ptr != '=' )
    goto ErrorExit;
ptr++;

iMax--; // one position is for terminating null
while( *ptr && *ptr != '&' && iMax )
{
    *pValue++ = *ptr++;
    iMax--;
}
*pValue = 0; // terminating null

*pQueryString = ptr;
return;

ErrorExit:
if (err != NO_ERR)
    throw new CWEBCLNT_ERR( err );
*pValue = 0; // return empty result string
}

/* FUNCTION: GetIntKeyValue
*
* PURPOSE:          This function parses a http formatted string for a specific key
value.
*
* ARGUMENTS:      char                *pQueryString
http string from client browser
*
* pKey                char
key value to look for
*
* NoKeyErr            WEBERROR
error value to throw if key not found
*
* NotIntErr            WEBERROR
error value to throw if value not numeric
*
* RETURNS:          integer
*
* ERROR:            if (the pKey value is not found) then
*
*                                if (NoKeyErr != NO_ERR)
*
*                                throw
*
*                                CWEBCLNT_ERR(err)
*
*                                else
*
*                                return 0
*
*                                else if (non-numeric char found) then
*
*                                if (NotIntErr != NO_ERR)
*
*                                throw
*
*                                CWEBCLNT_ERR(err)
*
*                                else
*
*                                return 0
*
* COMMENTS:          http keys are formatted either KEY=value& or KEY=value\0. This
DLL formats
*
*                                TPC-C input fields in such a manner that
the keys can be extracted in the
*
*                                above manner.
*/

int GetIntKeyValue(char **pQueryString, char *pKey, WEBERROR NoKeyErr,
WEBERROR NotIntErr)
{
    char *ptr0;
    char *ptr;

    if ( !(ptr=strstr(*pQueryString,pKey)) )
        goto ErrorNoKey;
    ptr += strlen(pKey);
    if ( *ptr != '=' )
        goto ErrorNoKey;
    ptr++;

    ptr0 = ptr;                // remember starting point

```

```

// scan string until a terminator (null or &) or a non-digit
while( *ptr && *ptr != '&' && isdigit(*ptr))
    ptr++;

// make sure we stopped scanning for the right reason
if ((ptr0 == ptr) || (*ptr && *ptr != '&'))
{
    if (NotIntErr != NO_ERR)
        throw new CWEBCLNT_ERR( NoKeyErr );

    return 0;
}

*pQueryString = ptr;
return atoi(ptr0);

ErrorNoKey:
if (NoKeyErr != NO_ERR)
    throw new CWEBCLNT_ERR( NoKeyErr );

return 0;
}

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

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

    Term.iMasterSyncId    = 1;
    Term.iNumEntries      = Reg.dwMaxConnections+1;

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

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

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

    LeaveCriticalSection(&TermCriticalSection);
}

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

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

```

```

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

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

LeaveCriticalSection(&TermCriticalSection);
}

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

int TermAdd(void)
{
    DWORD i;
    int iNewTerm, iTickCount;

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

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

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

        LeaveCriticalSection(&TermCriticalSection);
        return iNewTerm;
    }
}

/* FUNCTION: TermDelete
*

```

```

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

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

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

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

        LeaveCriticalSection(&TermCriticalSection);
    }
}

/* FUNCTION: MakeErrorForm
*/

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

/* FUNCTION: MakeMainMenuForm
*/

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

```

```

" <INPUT TYPE=\\"hidden\\" NAME=\\"FORMID\\"
VALUE=\\"%d\\">"
" <INPUT TYPE=\\"hidden\\" NAME=\\"TERMINID\\"
VALUE=\\"%d\\">"
" <INPUT TYPE=\\"hidden\\" NAME=\\"SYNCD\\"
VALUE=\\"%d\\">"
" <INPUT TYPE=\\"submit\\" NAME=\\"CMD\\"
VALUE=\\"..NewOrder..\\>"
" <INPUT TYPE=\\"submit\\" NAME=\\"CMD\\"
VALUE=\\"..Payment..\\>"
" <INPUT TYPE=\\"submit\\" NAME=\\"CMD\\"
VALUE=\\"..Delivery..\\>"
" <INPUT TYPE=\\"submit\\" NAME=\\"CMD\\"
VALUE=\\"..Order-Status..\\>"
" <INPUT TYPE=\\"submit\\" NAME=\\"CMD\\"
VALUE=\\"..Stock-Level..\\>"
" <INPUT TYPE=\\"submit\\" NAME=\\"CMD\\"
VALUE=\\"..Exit..\\>"
" </FORM></BODY></HTML>"
, MAIN_MENU_FORM, iTermId, iSyncId);
}

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

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

c = sprintf(szForm,
" <HTML><HEAD><TITLE>TPC-C Stock
Level</TITLE></HEAD><FORM ACTION=\\"tpcc.dll\\" METHOD=\\"GET\\">"
" <INPUT TYPE=\\"hidden\\" NAME=\\"STATUSD\\"
VALUE=\\"0\\">"
" <INPUT TYPE=\\"hidden\\" NAME=\\"ERROR\\" VALUE=\\"0\\">"
" <INPUT TYPE=\\"hidden\\" NAME=\\"FORMID\\"
VALUE=\\"%d\\">"
" <INPUT TYPE=\\"hidden\\" NAME=\\"TERMINID\\"
VALUE=\\"%d\\">"
" <INPUT TYPE=\\"hidden\\" NAME=\\"SYNCD\\"
VALUE=\\"%d\\">"
" <PRE><font face=\\"Courier\\">
Stock-Level<BR>"
" Warehouse: %5.5d District: %2.2d<BR> <BR>",
STOCK_LEVEL_FORM, iTermId,
Term.pClientData[iTermId].iSyncId,
Term.pClientData[iTermId].w_id,
Term.pClientData[iTermId].d_id);

if ( bInput )
{
strcpy(szForm+c,
" Stock Level Threshold: <INPUT NAME=\\"TT\\">"
SIZE=2><BR> <BR>"
" low stock: </font><BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR> <BR>"
" <BR> <BR> <BR> <BR> <BR> <BR>
" <INPUT TYPE=\\"submit\\" NAME=\\"CMD\\"
VALUE=\\"Process\\">"
" <INPUT TYPE=\\"submit\\" NAME=\\"CMD\\"
VALUE=\\"Menu\\">"
" </FORM></HTML>" );
}
else
{
sprintf(szForm+c,
" Stock Level Threshold: %2.2d<BR> <BR>"
" low stock: %3.3d</font> <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR> <BR>"

```

```

<BR></PRE><HR>"
" <BR> <BR> <BR> <BR> <BR> <BR>
VALUE="\"..NewOrder..\"">"
" <INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE="\"..Payment..\"">"
" <INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE="\"..Delivery..\"">"
" <INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE="\"..Order-Status..\"">"
" <INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE="\"..Stock-Level..\"">"
" <INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE="\"..Exit..\"">"
" </FORM></HTML>"
, pStockLevelData->threshold,
pStockLevelData->low_stock);
    }
}

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

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

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

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

    c = sprintf(szForm,
        " <HTML><HEAD><TITLE>TPC-C New
Order</TITLE></HEAD><BODY>"
        " <FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        " <INPUT TYPE=\"hidden\" NAME=\"STATUSDID\"
VALUE=\"%d\">"
        " <INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"0\">"
        " <INPUT TYPE=\"hidden\" NAME=\"FORMID\"
VALUE=\"%d\">"
        " <INPUT TYPE=\"hidden\" NAME=\"TERMDID\"
VALUE=\"%d\">"
        " <INPUT TYPE=\"hidden\" NAME=\"SYNCDID\"
VALUE=\"%d\">"
        " <PRE><font face=\"Courier\">
New
Order<BR>"
        , bValid ? 0 : ERR_BAD_ITEM_ID, NEW_ORDER_FORM,
iTermId, Term.pClientData[iTermId].iSyncId);

    if ( bInput )
    {
        c += sprintf(szForm+c, "Warehouse: %5.5d ",
Term.pClientData[iTermId].w_id);

        strcpy( szForm+c,
            "District: <INPUT NAME=\"DID*\" SIZE=1>
"Customer: <INPUT NAME=\"CID*\" SIZE=4>
Name:      Credit:      %Disc:<BR>"
            "Order Number:      Number of Lines:
W_tax:      D_tax:<BR> <BR>"
            " Supp_W Item_Id Item Name      Qty Stock
B/G Price  Amount<BR>"
            " <INPUT NAME=\"SP00*\" SIZE=4> <INPUT
NAME=\"IID00*\" SIZE=6> <INPUT NAME=\"Qty00*\"
SIZE=1><BR>"

```



```

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

void MakePaymentForm(int iTermId, PAYMENT_DATA *pPaymentData, BOOL bInput,
char *szForm)
{
    int c;

    c = sprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C
Payment</TITLE></HEAD><BODY>"
        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\"
VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMINID\"
VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\"
VALUE=\"%d\">"
        "<PRE><font face=\"Courier\">"
Payment<BR>"
        "Date: "
        , PAYMENT_FORM, iTermId,
Term.pClientData[iTermId].iSyncId);

    if ( !bInput )
    {
        c += sprintf(szForm+c, "%2.2d-%2.2d-%4.4d
%2.2d:%2.2d:%2.2d",
        pPaymentData->h_date.day,
        pPaymentData->h_date.month,
        pPaymentData->h_date.year,
        pPaymentData->h_date.hour,
        pPaymentData->h_date.minute,
        pPaymentData->h_date.second);
    }

    if ( bInput )
    {
        c += sprintf(szForm+c,
            "<BR> <BR>Warehouse: %5.5d"
            " District: <INPUT NAME=\"DID*\"
SIZE=1><BR> <BR> <BR> <BR> <BR>"
            "Customer: <INPUT NAME=\"CID*\" SIZE=4>"
            "Cust-Warehouse: <INPUT NAME=\"CWI*\"
SIZE=5> "
            "Cust-District: <INPUT NAME=\"CDI*\"
SIZE=1><BR>"
            "Name: <INPUT NAME=\"CLT*\"
SIZE=16> Since:<BR>"
            " Credit:<BR>"
            " Disc:<BR>"
            " Phone:<BR> <BR>"
            "Amount Paid: $<INPUT NAME=\"HAM*\"
SIZE=7> New Cust-Balance:<BR>"
            "Credit Limit:<BR> <BR>Cust-Data: <BR> <BR>
<BR> <BR> <BR></font></PRE><HR>"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..NewOrder..\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Payment..\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Delivery..\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Order-Status..\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Exit..\">"
            "</BODY></FORM></HTML>");
    }
    else
    {
        c += sprintf(szForm+c,
            "<BR> <BR>Warehouse: %5.5d
"%-20s %-20s<BR>"
            "%-20s %-20s<BR>"
            "%-20s %-2s %5.5s-%4.4s %-20s %-2s
%5.5s-%4.4s<BR> <BR>"
            "Customer: %4.4d Cust-Warehouse: %5.5d
Cust-District: %2.2d<BR>"
            "Name: %-16s %-2s %-16s Since:
%-20s Credit: %-2s<BR>"
            , Term.pClientData[iTermId].w_id,
            pPaymentData->w_street_1,
            pPaymentData->w_street_2,
            pPaymentData->w_city, pPaymentData->w_state,
            pPaymentData->w_zip, pPaymentData->w_zip+5,
            pPaymentData->d_city, pPaymentData->d_state,
            pPaymentData->d_zip, pPaymentData->d_zip+5,
            pPaymentData->c_id, pPaymentData->c_w_id,
            pPaymentData->c_d_id,
            pPaymentData->c_first, pPaymentData->c_middle,
            pPaymentData->out_c_last,
            pPaymentData->c_since.day,
            pPaymentData->c_since.month,
            pPaymentData->c_since.year,
            pPaymentData->c_street_1,
            pPaymentData->c_credit
            );
        c += sprintf(szForm+c,
            " %-20s %%Disc: %5.2f<BR>",
            pPaymentData->c_street_2,
            100.0*pPaymentData->c_discount);
        c += sprintf(szForm+c,
            " %-20s %-2s %5.5s-%4.4s Phone:
%6.6s-%3.3s-%3.3s-%4.4s<BR> <BR>",
            pPaymentData->c_city, pPaymentData->c_state,
            pPaymentData->c_zip, pPaymentData->c_zip+5,
            pPaymentData->c_phone,
            pPaymentData->c_phone+6, pPaymentData->c_phone+9, pPaymentData->c_phone+12 );
        c += sprintf(szForm+c,
            "Amount Paid: $%7.2f New Cust-Balance:
$%14.2f<BR>"
            "Credit Limit: $%13.2f<BR> <BR>"
            , pPaymentData->h_amount,
            pPaymentData->c_balance,
            pPaymentData->c_credit_lim
            );
        if ( pPaymentData->c_credit[0] == 'B' &&
pPaymentData->c_credit[1] == 'C' )
            c += sprintf(szForm+c,
                "Cust-Data:
%-50.50s<BR> %-50.50s<BR> %-50.50s<BR> %-50.50s<BR>",
                pPaymentData->c_data,
                pPaymentData->c_data+50, pPaymentData->c_data+100, pPaymentData->c_data+150 );
            else
                strcpy(szForm+c, "Cust-Data: <BR> <BR> <BR>
<BR>");
        strcat(szForm, " <BR></font></PRE><HR>"
            " <INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..NewOrder..\">"
            " <INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Payment..\">"
            " <INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Delivery..\">"
            " <INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Order-Status..\">"
            " <INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
            " <INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Exit..\">"
            "</BODY></FORM></HTML>");
    }
}

```


<pre>

" "Execution Status:

 "

 </PRE><HR>" " <INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Process\">" " <INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">" " </BODY></FORM></HTML>"); } else { wsprintf(szForm+c, "Carrier Number: %2.2d

" "Execution Status: %s

 "

 </PRE>" " <HR><INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..NewOrder..\">" " <INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Payment..\">" " <INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Delivery..\">" " <INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Order-Status..\">" " <INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Stock-Level..\">" " <INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Exit..\">" " </BODY></FORM></HTML>" , pDeliveryData->o_carrier_id, (pDeliveryData->exec_status_code == eOK) ? "Delivery has been queued." : "Delivery Post Failed "); } /* FUNCTION: ProcessNewOrderForm * * PURPOSE: This function gets and validates the input data from the new order form * filling in the required input variables. it then calls the SQLNewOrder * transaction, constructs the output form and writes it back to client * browser. */ void ProcessNewOrderForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char *szBuffer) { PNEW_ORDER_DATA pNewOrder; BOOL fLocalFlag = FALSE; pNewOrder = Term.pClientData[iTermId].pTxn->BuffAddr_NewOrder(); ZeroMemory(pNewOrder, sizeof(NEW_ORDER_DATA)); pNewOrder->w_id = Term.pClientData[iTermId].w_id; GetNewOrderData(pECB->lpszQueryString, pNewOrder, &fLocalFlag); Term.pClientData[iTermId].pTxn->NewOrder(fLocalFlag); pNewOrder = Term.pClientData[iTermId].pTxn->BuffAddr_NewOrder(); MakeNewOrderForm(iTermId, pNewOrder, OUTPUT_FORM, szBuffer); #ifdef COUNTSPLIT if (fLocalFlag) InterlockedIncrement(&gdwLocalNOCnt); else InterlockedIncrement(&gdwRemoteNOCnt); #endif } /* FUNCTION: void ProcessPaymentForm * * PURPOSE: This function gets and validates the input data from the payment form </pre>	<pre> * filling in the required input variables. It then calls the SQLPayment * transaction, constructs the output form and writes it back to client * browser. * ARGUMENTS: EXTENSION_CONTROL_BLOCK *pECB passed in structure pointer from inetsrv. * int iTermId client browser terminal id */ void ProcessPaymentForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char *szBuffer) { PPAYMENT_DATA pPayment; BOOL fLocalFlag = FALSE; pPayment = Term.pClientData[iTermId].pTxn->BuffAddr_Payment(); ZeroMemory(pPayment, sizeof(PAYMENT_DATA)); pPayment->w_id = Term.pClientData[iTermId].w_id; GetPaymentData(pECB->lpszQueryString, pPayment, &fLocalFlag); Term.pClientData[iTermId].pTxn->Payment(fLocalFlag); pPayment = Term.pClientData[iTermId].pTxn->BuffAddr_Payment(); MakePaymentForm(iTermId, pPayment, OUTPUT_FORM, szBuffer); #ifdef COUNTSPLIT if (fLocalFlag) InterlockedIncrement(&gdwLocalPayCnt); else InterlockedIncrement(&gdwRemotePayCnt); #endif } /* FUNCTION: ProcessOrderStatusForm * * PURPOSE: This function gets and validates the input data from the Order Status * form filling in the required input variables. It then calls the * SQLOrderStatus transaction, constructs the output form and writes it * back to client browser. * ARGUMENTS: EXTENSION_CONTROL_BLOCK *pECB passed in structure pointer from inetsrv. * int iTermId client browser terminal id */ void ProcessOrderStatusForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char *szBuffer) { PORDER_STATUS_DATA pOrderStatus; pOrderStatus = Term.pClientData[iTermId].pTxn->BuffAddr_OrderStatus(); ZeroMemory(pOrderStatus, sizeof(ORDER_STATUS_DATA)); pOrderStatus->w_id = Term.pClientData[iTermId].w_id; GetOrderStatusData(pECB->lpszQueryString, pOrderStatus); Term.pClientData[iTermId].pTxn->OrderStatus(); pOrderStatus = Term.pClientData[iTermId].pTxn->BuffAddr_OrderStatus(); MakeOrderStatusForm(iTermId, pOrderStatus, OUTPUT_FORM, szBuffer); } /* FUNCTION: ProcessDeliveryForm * * PURPOSE: This function gets and validates the input data from the delivery form * filling in the required input variables. It then calls the PostDeliveryInfo * Api, The client is then informed that the transaction has been posted. </pre>
--	---

```

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

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

    PDELIVERY_DATA    pDelivery;

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

    pDelivery->o_carrier_id = GetIntKeyValue(&ptr, "OCD*",
ERR_DELIVERY_MISSING_OCD_KEY, ERR_DELIVERY_CARRIER_INVALID);
    if ( pDelivery->o_carrier_id > 10 || pDelivery->o_carrier_id < 1 )
        throw new CWEBCLNT_ERR(
ERR_DELIVERY_CARRIER_ID_RANGE );

    if (dwNumDeliveryThreads)
    {
        //post delivery info
        if ( PostDeliveryInfo(pDelivery->w_id, pDelivery->o_carrier_id) )
            pDelivery->exec_status_code = eDeliveryFailed;
        else
            pDelivery->exec_status_code = eOK;
    }
    else // delivery is done synchronously if no delivery threads configured
        Term.pClientData[iTermId].pTxn->Delivery();

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

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

void ProcessStockLevelForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId,
char *szBuffer)
{
    char          *ptr = pECB->lpszQueryString;

    PSTOCK_LEVEL_DATA    pStockLevel;

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

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

    pStockLevel->threshold = GetIntKeyValue(&ptr, "TT*",
ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
ERR_STOCKLEVEL_THRESHOLD_INVALID);
    if ( pStockLevel->threshold >= 100 || pStockLevel->threshold < 0 )
        throw new CWEBCLNT_ERR(
ERR_STOCKLEVEL_THRESHOLD_RANGE);

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

```

```

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

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

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

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

    pNewOrderData->d_id = GetIntKeyValue(&ptr, "DID*",
ERR_NEWORDER_FORM_MISSING_DID,
ERR_NEWORDER_DISTRICT_INVALID);
    pNewOrderData->c_id = GetIntKeyValue(&ptr, "CID*",
ERR_NEWORDER_CUSTOMER_KEY, ERR_NEWORDER_CUSTOMER_INVALID);

    for(i=0, items=0; i<MAX_OL_NEW_ORDER_ITEMS; i++)
    {
        GetKeyValue(&ptr, szSP[i], szTmp, sizeof(szTmp),
ERR_NEWORDER_MISSING_SUPPW_KEY);
        if ( szTmp[0] )
        {
            if ( !IsNumeric(szTmp) )
                throw new CWEBCLNT_ERR(
ERR_NEWORDER_SUPPW_INVALID );
            pNewOrderData->OL_IN[items].ol_supply_w_id =
(long)atoi(szTmp);
            if (!fRemoteFlag)
            {
                if
                (!pbLocalWhsTbl[pNewOrderData->OL_IN[items].ol_supply_w_id])
                    fRemoteFlag=TRUE;
            }
            ol_i_id = pNewOrderData->OL_IN[items].ol_i_id =
GetIntKeyValue(&ptr, szIID[i],
ERR_NEWORDER_MISSING_IID_KEY, ERR_NEWORDER_ITEMID_INVALID);
            if ( ol_i_id > 999999 || ol_i_id < 1 )
                throw new CWEBCLNT_ERR(
ERR_NEWORDER_ITEMID_RANGE );
            ol_quantity =
pNewOrderData->OL_IN[items].ol_quantity =
GetIntKeyValue(&ptr, szQty[i],
ERR_NEWORDER_MISSING_QTY_KEY, ERR_NEWORDER_QTY_INVALID);
            if ( ol_quantity > 99 || ol_quantity < 1 )
                throw new CWEBCLNT_ERR(
ERR_NEWORDER_QTY_RANGE );

```

```

        items++;
    }
    else
    {
        // nothing entered for supply warehouse, so item id
        and qty must also be blank
        GetKeyValue(&ptr, szIID[i], szTmp, sizeof(szTmp),
ERR_NEWORDER_MISSING_IID_KEY);
        if ( szTmp[0] )
            throw new CWEBCLNT_ERR(
ERR_NEWORDER_ITEMID_WITHOUT_SUPPW );

        GetKeyValue(&ptr, szQty[i], szTmp, sizeof(szTmp),
ERR_NEWORDER_MISSING_QTY_KEY);
        if ( szTmp[0] )
            throw new CWEBCLNT_ERR(
ERR_NEWORDER_QTY_WITHOUT_SUPPW );
    }
    if ( items == 0 )
        throw new CWEBCLNT_ERR(
ERR_NEWORDER_NOITEMS_ENTERED );

    pNewOrderData->o_ol_cnt = items;
    if (pfLocalFlag)
        *pfLocalFlag = !fRemoteFlag;
}

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

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

    pPaymentData->d_id = GetIntKeyValue(&ptr, "DID*",
ERR_PAYMENT_MISSING_DID_KEY, ERR_PAYMENT_DISTRICT_INVALID);

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

    pPaymentData->c_w_id = GetIntKeyValue(&ptr, "CWI*",
ERR_PAYMENT_MISSING_CWI_KEY, ERR_PAYMENT_CWI_INVALID);
    pPaymentData->c_d_id = GetIntKeyValue(&ptr, "CDI*",
ERR_PAYMENT_MISSING_CDI_KEY, ERR_PAYMENT_CDI_INVALID);
    if ( !pbLocalWhsTbl[pPaymentData->c_w_id] )
        fRemoteFlag=TRUE;

    if ( bCustIdBlank )
    {
        // customer id is blank, so last name must be entered
        GetKeyValue(&ptr, "CLT*", szTmp, sizeof(szTmp),
ERR_PAYMENT_MISSING_CLT_KEY);

```

```

        if ( szTmp[0] == 0 )
            throw new CWEBCLNT_ERR(
ERR_PAYMENT_MISSING_CID_CLT );

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

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

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

    pOrderStatusData->d_id = GetIntKeyValue(&ptr, "DID*",
ERR_ORDERSTATUS_MISSING_DID_KEY, ERR_ORDERSTATUS_DID_INVALID);

    GetKeyValue(&ptr, "CID*", szTmp, sizeof(szTmp),
ERR_ORDERSTATUS_MISSING_CID_KEY);
    if ( szTmp[0] == 0 )
    {
        // customer id is blank, so last name must be entered
        pOrderStatusData->in_c_id = 0;
        GetKeyValue(&ptr, "CLT*", szTmp, sizeof(szTmp),
ERR_ORDERSTATUS_MISSING_CLT_KEY);
        if ( szTmp[0] == 0 )
            throw new CWEBCLNT_ERR(
ERR_ORDERSTATUS_MISSING_CID_CLT );
    }

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

```

```

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

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

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

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

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

    if ( *ptr == 0 )
        return FALSE;

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

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

    if (*(dotptr+1) != 0)
        // check text after decimal point
        bValid &= IsNumeric(dotptr+1);

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

```

tpc.def

LIBRARY TPCC.DLL

EXPORTS

```

GetExtensionVersion    @1
HttpExtensionProc      @2
TerminateExtension     @3

```

tpcc.h

```

/*      FILE:                TPCC.H
*
*      Microsoft TPC-C Kit Ver. 4.20.000
*      Copyright Microsoft, 1999
*
*      All Rights Reserved
*
*      Version 4.10.000 audited by Richard
Gimarc, Performance Metrics, 3/17/99
*
*      PURPOSE:  Header file for ISAPI TPCC.DLL, defines structures and functions
used in the isapi tpcc.dll.
*
*/

```

//VERSION RESOURCE DEFINES

```

#define _APS_NEXT_RESOURCE_VALUE
101
#define _APS_NEXT_COMMAND_VALUE
40001
#define _APS_NEXT_CONTROL_VALUE
1000
#define _APS_NEXT_SYMED_VALUE
101

```

```

#define TP_MAX_RETRIES
50

```

//note that the welcome form must be processed first as terminal ids assigned here, once the
//terminal id is assigned then the forms can be processed in any order.

```

#define WELCOME_FORM

```

```

1 //beginning form no term id assigned, form id

```

```

#define MAIN_MENU_FORM

```

```

2 //term id assigned main menu form id

```

```

#define NEW_ORDER_FORM

```

```

3 //new order form id

```

```

#define PAYMENT_FORM

```

```

4 //payment form id

```

```

#define DELIVERY_FORM

```

```

5 //delivery form id

```

```

#define ORDER_STATUS_FORM

```

```

//order status id

```

```

#define STOCK_LEVEL_FORM

```

```

//stock level form id

```

//This macro is used to prevent the compiler error unused formal parameter

```

#define UNUSEDPARAM(x) (x = x)

```

//This structure defines the data necessary to keep distinct for each terminal or client
connection.

```

typedef struct _CLIENTDATA

```

```

{

```

```

    int                                iNextFree;

```

//index of next free element or -1 if this entry in use.

```

    int                                w_id;

```

//warehouse id assigned at welcome form

```

    int                                d_id;

```

//district id assigned at welcome form

```

    int                                iSyncId;

```

//synchronization id

```

    int                                iTickCount;

```

//time of last access;

```

CTPCC_BASE    *pTxn;

```

```
} CLIENTDATA, *PCLIENTDATA;
```

```
//This structure is used to define the operational interface for terminal id support
typedef struct _TERM
```

```
{
    int                iNumEntries;
    //total allocated terminal array entries
    int                iFreeList;
    //next available terminal array element or -1 if none
    int                iMasterSyncId;
    //synchronization id
    CLIENTDATA         *pClientData;
    //pointer to allocated client data
} TERM;
```

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

```
enum WEBERROR
{
```

```
    NO_ERR,
    ERR_COMMAND_UNDEFINED,
    ERR_D_ID_INVALID,
    ERR_DELIVERY_CARRIER_ID_RANGE,
    ERR_DELIVERY_CARRIER_INVALID,
    ERR_DELIVERY_MISSING_OCD_KEY,
    ERR_DELIVERY_THREAD_FAILED,
    ERR_GETPROCADDR_FAILED,
    ERR_HTML_ILL_FORMED,
    ERR_INVALID_SYNC_CONNECTION,
    ERR_INVALID_TERMID,
    ERR_LOADDLL_FAILED,
    ERR_MAX_CONNECTIONS_EXCEEDED,
    ERR_MEM_ALLOC_FAILED,
    ERR_MISSING_REGISTRY_ENTRIES,
    ERR_NEWORDER_CUSTOMER_INVALID,
    ERR_NEWORDER_CUSTOMER_KEY,
    ERR_NEWORDER_DISTRICT_INVALID,
    ERR_NEWORDER_FORM_MISSING_DID,
    ERR_NEWORDER_ITEMID_INVALID,
    ERR_NEWORDER_ITEMID_RANGE,
    ERR_NEWORDER_ITEMID_WITHOUT_SUPPW,
    ERR_NEWORDER_MISSING_IID_KEY,
    ERR_NEWORDER_MISSING_QTY_KEY,
    ERR_NEWORDER_MISSING_SUPPW_KEY,
    ERR_NEWORDER_NOITEMS_ENTERED,
    ERR_NEWORDER_QTY_INVALID,
    ERR_NEWORDER_QTY_RANGE,
    ERR_NEWORDER_QTY_WITHOUT_SUPPW,
    ERR_NEWORDER_SUPPW_INVALID,
    ERR_NO_SERVER_SPECIFIED,
    ERR_ORDERSTATUS_CID_AND_CLT,
    ERR_ORDERSTATUS_CID_INVALID,
    ERR_ORDERSTATUS_CLT_RANGE,
    ERR_ORDERSTATUS_DID_INVALID,
    ERR_ORDERSTATUS_MISSING_CID_CLT,
    ERR_ORDERSTATUS_MISSING_CID_KEY,
    ERR_ORDERSTATUS_MISSING_CLT_KEY,
    ERR_ORDERSTATUS_MISSING_DID_KEY,
    ERR_PAYMENT_CDI_INVALID,
    ERR_PAYMENT_CID_AND_CLT,
    ERR_PAYMENT_CUSTOMER_INVALID,
    ERR_PAYMENT_CWI_INVALID,
    ERR_PAYMENT_DISTRICT_INVALID,
    ERR_PAYMENT_HAM_INVALID,
    ERR_PAYMENT_HAM_RANGE,
    ERR_PAYMENT_LAST_NAME_TO_LONG,
    ERR_PAYMENT_MISSING_CDI_KEY,
    ERR_PAYMENT_MISSING_CID_CLT,
    ERR_PAYMENT_MISSING_CID_KEY,
    ERR_PAYMENT_MISSING_CLT,
    ERR_PAYMENT_MISSING_CLT_KEY,
    ERR_PAYMENT_MISSING_CWI_KEY,
    ERR_PAYMENT_MISSING_DID_KEY,
    ERR_PAYMENT_MISSING_HAM_KEY,
```

```
    ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
    ERR_STOCKLEVEL_THRESHOLD_INVALID,
    ERR_STOCKLEVEL_THRESHOLD_RANGE,
    ERR_VERSION_MISMATCH,
    ERR_W_ID_INVALID
};
```

```
class CWEBCLNT_ERR : public CBaseErr
```

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

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

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

    WEBERROR      m_Error;
    char          *m_szTextDetail;    //
    char          *m_szErrorText;
    DWORD         m_SystemErr;

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

```
//These constants have already been defined in engstut.h, but since we do
//not want to include it in the delisrv executable
```

```
#define    TXN_EVENT_START          2
#define    TXN_EVENT_STOP           4
#define TXN_EVENT_WARNING    6           //used to record a warning
into the log
```

```
//function prototypes
```

```
BOOL APIENTRY DllMain(HANDLE hModule, DWORD ul_reason_for_call, LPVOID
lpReserved);
void WriteMessageToEventLog(LPTSTR lpszMsg);
void ProcessQueryString(EXTENSION_CONTROL_BLOCK *pECB, int *pCmd, int
*pFormId, int *pTermId, int *pSyncId);
void WelcomeForm(EXTENSION_CONTROL_BLOCK *pECB, char *szBuffer);
void SubmitCmd(EXTENSION_CONTROL_BLOCK *pECB, char *szBuffer);
void BeginCmd(EXTENSION_CONTROL_BLOCK *pECB, int iFormId, int iTermId);
void ProcessCmd(EXTENSION_CONTROL_BLOCK *pECB, int iFormId, int iTermId);
void StatsCmd(EXTENSION_CONTROL_BLOCK *pECB, char *szBuffer);
void ErrorMessage(EXTENSION_CONTROL_BLOCK *pECB, int iError, int iErrorType,
char *szMsg, int iTermId);
void GetKeyValue(char **pQueryString, char *pKey, char *pValue, int iMax, WEBERROR
err);
int GetIntKeyValue(char **pQueryString, char *pKey, WEBERROR NoKeyErr,
WEBERROR NotIntErr);
void TermInit(void);
void TermDeleteAll(void);
int TermAdd(void);
void TermDelete(int id);
```

```

void ErrorForm(EXTENSION_CONTROL_BLOCK *pECB, int iType, int iErrorNum, int
iTermId, int iSyncId, char *szErrorText, char *szBuffer);
void MakeMainMenuForm(int iTermId, int iSyncId, char *szForm);
void MakeStockLevelForm(int iTermId, STOCK_LEVEL_DATA *pStockLevelData,
BOOL bInput, char *szForm);
void MakeNewOrderForm(int iTermId, NEW_ORDER_DATA *pNewOrderData, BOOL
bInput, char *szForm);
void MakePaymentForm(int iTermId, PAYMENT_DATA *pPaymentData, BOOL bInput,
char *szForm);
void MakeOrderStatusForm(int iTermId, ORDER_STATUS_DATA *pOrderStatusData,
BOOL bInput, char *szForm);
void MakeDeliveryForm(int iTermId, DELIVERY_DATA *pDeliveryData, BOOL bInput,
char *szForm);
void ProcessNewOrderForm(EXTENSION_CONTROL_BLOCK *pECB, int
iTermId, char *szBuffer);
void ProcessPaymentForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char
*szBuffer);
void ProcessOrderStatusForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId,
char *szBuffer);
void ProcessDeliveryForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char
*szBuffer);
void ProcessStockLevelForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId,
char *szBuffer);
void GetNewOrderData(LPSTR lpszQueryString, NEW_ORDER_DATA
*pNewOrderData, BOOL *pfLocalFlag);
void GetPaymentData(LPSTR lpszQueryString, PAYMENT_DATA *pPaymentData, BOOL
*pfLocalFlag);
void GetOrderStatusData(LPSTR lpszQueryString, ORDER_STATUS_DATA
*pOrderStatusData);
BOOL PostDeliveryInfo(long w_id, short o_carrier_id);
BOOL IsNumeric(char *ptr);
BOOL IsDecimal(char *ptr);
void DeliveryWorkerThread(void *ptr);

```

tpcc.rc

```

//Microsoft Developer Studio generated resource script.
//
#include "resource.h"

```

```

#define APSTUDIO_READONLY_SYMBOLS
////////////////////////////////////
//
// Generated from the TEXTINCLUDE 2 resource.
//
#include "afxres.h"

```

```

////////////////////////////////////
#undef APSTUDIO_READONLY_SYMBOLS

////////////////////////////////////
// English (U.S.) resources

```

```

#if !defined(AFX_RESOURCE_DLL) || defined(AFX_TARG_ENU)
#ifdef _WIN32
LANGUAGE LANG_ENGLISH, SUBLANG_ENGLISH_US
#pragma code_page(1252)
#endif // _WIN32

```

```

#ifdef _MAC
////////////////////////////////////
//
// Version
//

```

```

VS_VERSION_INFO VERSIONINFO
FILEVERSION 0,4,0,0
PRODUCTVERSION 0,4,0,0
FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
FILEFLAGS 0x1L
#else
FILEFLAGS 0x0L
#endif
FILEOS 0x40004L

```

```

FILETYPE 0x2L
FILESUBTYPE 0x0L
BEGIN
    BLOCK "StringFileInfo"
    BEGIN
        BLOCK "040904b0"
        BEGIN
            VALUE "Comments", "TPC-C HTML DLL Server (DBLIB)\0"
            VALUE "CompanyName", "Microsoft\0"
            VALUE "FileDescription", "TPC-C HTML DLL Server (DBLIB)\0"
            VALUE "FileVersion", "0, 4, 0, 0\0"
            VALUE "InternalName", "tpcc\0"
            VALUE "LegalCopyright", "Copyright © 1997\0"
            VALUE "OriginalFilename", "tpcc.dll\0"
            VALUE "ProductName", "Microsoft tpcc\0"
            VALUE "ProductVersion", "0, 4, 0, 0\0"
        END
    END
    BLOCK "VarFileInfo"
    BEGIN
        VALUE "Translation", 0x409, 1200
    END
END

```

```

#endif // !_MAC

```

```

#ifdef APSTUDIO_INVOKED
////////////////////////////////////
//
// TEXTINCLUDE
//

```

```

1 TEXTINCLUDE DISCARDABLE
BEGIN
    "resource.h\0"
END

```

```

2 TEXTINCLUDE DISCARDABLE
BEGIN
    "#include ""afxres.h""\r\n"
    "\0"
END

```

```

3 TEXTINCLUDE DISCARDABLE
BEGIN
    "\r\n"
    "\0"
END

```

```

#endif // APSTUDIO_INVOKED

```

```

////////////////////////////////////
//
// Dialog
//

```

```

IDD_DIALOG1 DIALOG DISCARDABLE 0, 0, 186, 95
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Dialog"
FONT 8, "MS Sans Serif"
BEGIN
    DEFPUSHBUTTON "OK", IDOK, 129, 7, 50, 14
    PUSHBUTTON "Cancel", IDCANCEL, 129, 24, 50, 14
END

```

```

////////////////////////////////////
//
// DESIGNINFO
//

```

```

#ifdef APSTUDIO_INVOKED
GUIDELINES DESIGNINFO DISCARDABLE
BEGIN
    IDD_DIALOG1, DIALOG
    BEGIN

```

```

LEFTMARGIN, 7
RIGHTMARGIN, 179
TOPMARGIN, 7
BOTTOMMARGIN, 88
END
END
#endif // APSTUDIO_INVOKED

```

```

#endif // English (U.S.) resources

```

```

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

```

```

#ifndef APSTUDIO_INVOKED

```

```

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

```

```

//
// Generated from the TEXTINCLUDE 3 resource.
//

```

```

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

```

```

#endif // not APSTUDIO_INVOKED

```

tpcc_com.cpp

```

/*      FILE:          TPC_C_CPP
 *
 *      Microsoft TPC-C Kit Ver. 4.20.000
 *      Copyright Microsoft, 1999
 *
 *      All Rights Reserved
 *
 *
 *      not yet audited
 *
 *
 *      PURPOSE: Source file for TPC-C COM+ class implementation.
 *      Contact:  Charles Levine (clevine@microsoft.com)
 *
 *
 *      Change history:
 *      4.20.000 - first version
 */

```

```

// needed for CoInitializeEx
#define _WIN32_WINNT 0x0400

```

```

#include <windows.h>

```

```

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

```

```

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

```

```

#include "..\..\tpcc_com_ps\src\tpcc_com_ps_i.c"
#include "..\..\tpcc_com_all\src\tpcc_com_all_i.c"

```

```

#include "..\..\tpcc_com_remote_ps\src\tpcc_com_remote_ps_i.c"
#include "..\..\tpcc_com_remote\src\tpcc_com_remote_i.c"

```

```

// wrapper routine for class constructor
__declspec( dllexport ) CTPCC_COM* CTPCC_COM_new(BOOL bSinglePool)
{
    return new CTPCC_COM(bSinglePool);
}

```

```

CTPCC_COM::CTPCC_COM(BOOL bSinglePool)
{
    HRESULT hr = NULL;
    long lRet = 0;
    ULONG ulTmpSize = 0;

    m_bSinglePool = bSinglePool;

    m_pNewOrder = NULL;

```

```

    m_pPayment = NULL;
    m_pStockLevel = NULL;
    m_pOrderStatus = NULL;
    m_p_remNewOrder = NULL;
    m_p_remPayment = NULL;
    m_p_remStockLevel = NULL;
    m_p_remOrderStatus = NULL;

```

```

/*

```

```

    m_pTxn = (COM_DATA*)CoTaskMemAlloc(sizeof(COM_DATA));
    if (!m_pTxn)
        throw new CCOMERR( E_FAIL );

```

```

*/

```

```

    ulTmpSize = (ULONG) sizeof(COM_DATA);
    VariantInit(&m_vTxn);
    m_vTxn.vt = VT_SAFEARRAY;

```

```

    m_vTxn.parray = SafeArrayCreateVector(

```

```

VT_UI1,

```

```

    ulTmpSize,

```

```

    ulTmpSize);

```

```

    if (!m_vTxn.parray)
        throw new CCOMERR( E_FAIL );

```

```

    memset((void*)m_vTxn.parray->pData, 0, ulTmpSize);

```

```

    m_pTxn = (COM_DATA*)m_vTxn.parray->pData;

```

```

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

```

```

// create components
if (m_bSinglePool)
{

```

```

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

```

```

    hr = CoCreateInstance(CLSID_TPCCrem, NULL,
CLSCTX_SERVER, IID_ITPCCrem, (void **)&m_p_remNewOrder);
    if (FAILED(hr))
        throw new CCOMERR(hr);

```

```

// all local txns will use same component

```

```

    m_pPayment = m_pNewOrder;
    m_pStockLevel = m_pNewOrder;
    m_pOrderStatus = m_pNewOrder;

```

```

// all remote txns will use same component

```

```

    m_p_remPayment = m_p_remNewOrder;
    m_p_remStockLevel = m_p_remNewOrder;
    m_p_remOrderStatus = m_p_remNewOrder;

```

```

    }
    else
    {

```

```

// use different components for each txn

```

```

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

```

```

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

```

```

    hr = CoCreateInstance(CLSID_StockLevel, NULL,
CLSCTX_SERVER, IID_ITPCC, (void **)&m_pStockLevel);

```

```

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

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

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

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

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

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

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

CTPCC_COM::~CTPCC_COM()
{
    if (m_pTxn)
        SafeArrayDestroy(m_vTxn.parray);

    ReleaseInterface(m_pNewOrder);

    ReleaseInterface(m_p_remNewOrder);

    if (!m_bSinglePool)
    {
        ReleaseInterface(m_pPayment);
        ReleaseInterface(m_pStockLevel);
        ReleaseInterface(m_pOrderStatus);
    }
    CoUninitialize();
}

/*void CTPCC_COM::NewOrder()
{
    VARIANT vTxn_out;
    HRESULT hr = m_pNewOrder->NewOrder(m_vTxn, &vTxn_out);

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

    memcpy(m_pTxn, (void
*)vTxn_out.parray->pvData, vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error );
}

*/
void CTPCC_COM::NewOrder(BOOL fLocal)
{
    VARIANT vTxn_out;
    HRESULT hr;
    if (fLocal)
        hr = m_pNewOrder->NewOrder(m_vTxn, &vTxn_out);
    else
        hr = m_p_remNewOrder->NewOrder(m_vTxn, &vTxn_out);

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

```

```

        memcpy(m_pTxn, (void
*)vTxn_out.parray->pvData, vTxn_out.parray->rgsabound[0].cElements);
        SafeArrayDestroy(vTxn_out.parray);

        if ( m_pTxn->ErrorType != ERR_SUCCESS )
            throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error );
    }
}

/*void CTPCC_COM::Payment()
{
    VARIANT vTxn_out;
    HRESULT hr = m_pPayment->Payment(m_vTxn, &vTxn_out);

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

    memcpy(m_pTxn, (void
*)vTxn_out.parray->pvData, vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error );
}

*/
void CTPCC_COM::Payment(BOOL fLocal)
{
    VARIANT vTxn_out;
    HRESULT hr;
    if (fLocal)
        hr = m_pPayment->Payment(m_vTxn, &vTxn_out);
    else
        hr = m_p_remPayment->Payment(m_vTxn, &vTxn_out);

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

    memcpy(m_pTxn, (void
*)vTxn_out.parray->pvData, vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error );
}

void CTPCC_COM::StockLevel()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pStockLevel->StockLevel(m_vTxn, &vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );

    memcpy(m_pTxn, (void
*)vTxn_out.parray->pvData, vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error );
}

void CTPCC_COM::OrderStatus()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pOrderStatus->OrderStatus(m_vTxn, &vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );

    memcpy(m_pTxn, (void
*)vTxn_out.parray->pvData, vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error );
}
}

tpcc_com.h

/* FILE: TPCC_COM.H

```

```

*
* Microsoft TPC-C Kit Ver. 4.20.000
* Copyright Microsoft, 1999
*
* All Rights Reserved
*
* not yet audited
*
* PURPOSE: Header file for TPC-C COM+ class implementation.
*
* Change history:
* 4.20.000 - first version
*/

#pragma once

#include <stdio.h>
#include "..\..\tpcc_com_ps\src\tpcc_com_ps.h"
#include "..\..\tpcc_com_remote_ps\src\tpcc_com_remote_ps.h"

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

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

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

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

    int m_hr;
    int m_iErrorType;
    int m_iError;

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

    int ErrorNum() {return m_hr;}

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

        return m_szErrorText;
    }
};

class DllDecl CTPCC_COM : public CTPCC_BASE
{

```

```

private:
    BOOL m_bSinglePool;

    // COM Interface pointers
    ITPCC* m_pNewOrder;
    ITPCC* m_pPayment;
    ITPCC* m_pStockLevel;
    ITPCC* m_pOrderStatus;
    ITPCCrem* m_p_remNewOrder;
    ITPCCrem* m_p_remPayment;
    ITPCCrem* m_p_remStockLevel;
    ITPCCrem* m_p_remOrderStatus;

    struct COM_DATA
    {
        int ErrorType;
        int error;
        union
        {
            NEW_ORDER_DATA
            PAYMENT_DATA
            DELIVERY_DATA
            STOCK_LEVEL_DATA StockLevel;
            ORDER_STATUS_DATA
        } u;
    } *m_pTxn;

public:
    VARIANT m_vTxn;
    CTPCC_COM(BOOL bSinglePool);
    ~CTPCC_COM(void);

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

    // void NewOrder ( );
    // void NewOrder (BOOL fLocal);
    // void Payment ( );
    // void Payment (BOOL fLocal);
    // void StockLevel ( );
    // void OrderStatus ( );
    // void Delivery ( ) { throw new
    CCOMERR(E_NOTIMPL); } // not supported
};

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

// wrapper routine for class constructor
extern "C" __declspec(dllexport) CTPCC_COM* CTPCC_COM_new(BOOL);
typedef CTPCC_COM* (TYPE_CTPCC_COM)(BOOL);

```

tpcc_com_all.cpp

```
/*      FILE:                TPCC_COM_ALL.CPP
 *
 *      Microsoft TPC-C Kit Ver. 4.20.000
 *      Copyright Microsoft, 1999
 *
 *      All Rights Reserved
 *
 *
 *      Version 4.10.000 audited by Richard
Gimarc, Performance Metrics, 3/17/99
 *
 *      PURPOSE: Implementation for TPC-C Tuxedo class.
 *      Contact:  Charles Levine (clevine@microsoft.com)
 *
 *      Change history:
 *      4.20.000 - updated rev number to match kit
 */

#define STRICT
#define _WIN32_WINNT 0x0400
#define _ATL_APARTMENT_THREADED

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

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

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

#include "tpcc_com_ps.h"
#include "..\..\common\src\trans.h"
//tpckit transaction header contains definitions of structures specific to TPC-C
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\error.h"
#include "..\..\common\src\ReadRegistry.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h"           // DBLIB implementation
of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h"             // ODBC implementation of
TPC-C txns
#include "..\..\db_db2_dll\src\tpcc_odbc_db2.h"         // DB2 ODBC
implementation of TPC-C txns

#include "resource.h"
#include "tpcc_com_all.h"
#include "tpcc_com_all_i.c"
#include "Methods.h"
#include "..\..\tpcc_com_ps\src\tpcc_com_ps_i.c"
#include "..\..\common\src\ReadRegistry.cpp"

CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)
    OBJECT_ENTRY(CLSID_TPCC, CTPCC)
    OBJECT_ENTRY(CLSID_NewOrder, CNewOrder)
    OBJECT_ENTRY(CLSID_OrderStatus, COrderStatus)
    OBJECT_ENTRY(CLSID_Payment, CPayment)
    OBJECT_ENTRY(CLSID_StockLevel, CStockLevel)
END_OBJECT_MAP()

// configuration settings from registry
TPCCREGISTRYDATA Reg;
char
szMyComputerName[MAX_COMPUTERNAME_LENGTH+1];

static HINSTANCE hLibInstanceDb = NULL;
```

```
TYPE_CTPCC_DBLIB *pCTPCC_DBLIB_new;
TYPE_CTPCC_ODBC *pCTPCC_ODBC_new;
TYPE_CTPCC_ODBC_DB2 *pCTPCC_ODBC_DB2_new;

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

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInstance, DWORD dwReason, LPVOID
/*lpReserved*/)
{
    char szDllName[128];

    try
    {
        if (dwReason == DLL_PROCESS_ATTACH)
        {
            _Module.Init(ObjectMap, hInstance);
            DisableThreadLibraryCalls(hInstance);

            DWORD dwSize =
MAX_COMPUTERNAME_LENGTH+1;
            GetComputerName(szMyComputerName, &dwSize);
            szMyComputerName[dwSize] = 0;

            if ( ReadTPCCRegistrySettings( &Reg ) )
                throw new CCOMPONENT_ERR(
ERR_MISSING_REGISTRY_ENTRIES );

            if (Reg.eDB_Protocol == DBLIB)
            {
                strcpy( szDllName, Reg.szPath );
                strcat( szDllName, "tpcc_dblib.dll");
                hLibInstanceDb = LoadLibrary(
szDllName );

                if (hLibInstanceDb == NULL)
                    throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                // get function pointer to wrapper for
class constructor
                pCTPCC_DBLIB_new =
(TYPE_CTPCC_DBLIB*) GetProcAddress(hLibInstanceDb, "CTPCC_DBLIB_new");
                if (pCTPCC_DBLIB_new == NULL)
                    throw new
CCOMPONENT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
            }
            else if (Reg.eDB_Protocol == ODBC)
            {
                strcpy( szDllName, Reg.szPath );
                strcat( szDllName, "tpcc_odbc.dll");
                hLibInstanceDb = LoadLibrary(
szDllName );

                if (hLibInstanceDb == NULL)
                    throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                // get function pointer to wrapper for
class constructor
                pCTPCC_ODBC_new =
(TYPE_CTPCC_ODBC*) GetProcAddress(hLibInstanceDb, "CTPCC_ODBC_new");
                if (pCTPCC_ODBC_new == NULL)
                    throw new
CCOMPONENT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
            }
            else if (Reg.eDB_Protocol == DB2)
            {
                strcpy( szDllName, Reg.szPath );
                strcat( szDllName, "tpcc_db2.dll");
                hLibInstanceDb = LoadLibrary(
szDllName );

                if (hLibInstanceDb == NULL)
                    throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                // get function pointer to wrapper for
class constructor
```

```

        pCTPCC_ODBC_DB2_new =
(TYPE_CTPCC_ODBC_DB2*)
GetProcAddress(hLibInstanceDb,"CTPCC_ODBC_DB2_new");
        if (pCTPCC_ODBC_DB2_new ==
NULL)
                throw new
CCOMponent_Err( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
        }
        else
                throw new CComponent_Err(
ERR_UNKNOWN_DB_PROTOCOL );
        }
        else if (dwReason == DLL_PROCESS_DETACH)
                _Module.Term();
    }
    catch (CBaseErr *e)
    {
        WriteMessageToEventLog(e->ErrorText());
        delete e;
        return FALSE;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled exception in object
DllMain"));
        return FALSE;
    }
    return TRUE;        // OK
}

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

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

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

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

////////////////////////////////////
// DllRegisterServer - Adds entries to the system registry

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

////////////////////////////////////
// DllUnregisterServer - Removes entries from the system registry

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

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

    // Use event logging to log the error.
    //
    hEventSource = RegisterEventSource(NULL, TEXT("tpcc_com_all.dll"));
    _stprintf(szMsg, TEXT("Error in COM+ TPC-C Component: "));
    lpszStrings[0] = szMsg;
    lpszStrings[1] = lpszMsg;

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

        (VOID) DeregisterEventSource(hEventSource);
    }
}

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

/* FUNCTION: CComponent_Err::ErrorText
 *
 */
char* CComponent_Err::ErrorText(void)
{
    static SERRORMSG errorMsgs[] =
    {
        { ERR_MISSING_REGISTRY_ENTRIES, "Required
entries missing from registry." },
        { ERR_LOADDLL_FAILED,
"Load of DLL failed. DLL="
},
        { ERR_GETPROCADDR_FAILED, "Could not
map proc in DLL. GetProcAddr error. DLL=" },
        { ERR_UNKNOWN_DB_PROTOCOL,
"Unknown database protocol specified in registry." },
        { 0, "" }
    };

    char szTmp[256];
    int i = 0;
    while (TRUE)
    {
        if (errorMsgs[i].szMsg[0] == 0)
        {
            strcpy( szTmp, "Unknown error number." );
            break;
        }
        if (m_Error == errorMsgs[i].iError)
        {
            strcpy( szTmp, errorMsgs[i].szMsg );
            break;
        }
        i++;
    }

    if (m_szTextDetail)
        strcat( szTmp, m_szTextDetail );
    if (m_SystemErr)
        wsprintf( szTmp+strlen(szTmp), " Error=%d", m_SystemErr );

    m_szErrorText = new char[strlen(szTmp)+1];
    strcpy( m_szErrorText, szTmp );
    return m_szErrorText;
}

```

```

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

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

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

    // get our object context
    HRESULT hr = CoGetObjectContext(IID_IObjectContext, (void
**) &pObjectContext);
    pObjectContext->SetComplete();
    ReleaseInterface(pObjectContext);
    return hr;
}

//
// called by the ctor activator
//
STDMETHODIMP CTPCC_Common::Construct(IDispatch* pUnk)
{
    // Code to access construction string, if needed later...
    // if (!pUnk)
    //     return E_UNEXPECTED;
    // IObjectConstructString* pString = NULL;
    // HRESULT hr =
pUnk->QueryInterface(IID_IObjectConstructString, (void **) &pString);
    // pString->Release();
    try
    {
        if (Reg.eDB_Protocol == ODBC)
            m_pTxn = pCTPCC_ODBC_new( Reg.szDbServer,
Reg.szDbUser, Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol == DBLIB)
            m_pTxn = pCTPCC_DBLIB_new( Reg.szDbServer,
Reg.szDbUser, Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol == DB2)
            m_pTxn = pCTPCC_ODBC_DB2_new(
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword, szMyComputerName,
Reg.szDbName );
    }
    catch (CBaseErr *e)
    {
        WriteMessageToEventLog(e->ErrorText());
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandledexception in object
::Construct"));
        return E_FAIL;
    }

    return S_OK;
}

HRESULT CTPCC_Common::NewOrder(VARIANT txn_in, VARIANT* txn_out)
{
    PNEW_ORDER_DATA pNewOrder;
    COM_DATA *pData;
    try
    {
        pData = (COM_DATA*)txn_in.parray->pvData;
        pNewOrder = m_pTxn->BuffAddr_NewOrder();

        memcpy(pNewOrder, &pData->u.NewOrder,
sizeof(NEW_ORDER_DATA));
    }

```

```

VariantInit(txn_out);
txn_out->vt = VT_SAFEARRAY;
txn_out->parray = SafeArrayCreateVector(
VT_UI1,

txn_in.parray->rgsabound->cElements,

txn_in.parray->rgsabound->cElements);
    pData = (COM_DATA*) txn_out->parray->pvData;

    m_pTxn->NewOrder(TRUE);

    memcpy( &pData->u.NewOrder, pNewOrder,
sizeof(NEW_ORDER_DATA));

    pData->retval = ERR_SUCCESS;
    pData->error = 0;
    return S_OK;
}
catch (CBaseErr *e)
{
    // check for lost database connection; if yes, component is toast
    if ( ((e->ErrorType() == ERR_TYPE_DBLIB) &&
(e->ErrorNum() == 10005)) ||
        ((e->ErrorType() == ERR_TYPE_ODBC) &&
(e->ErrorNum() == 10054)) ||
        ((e->ErrorType() == ERR_TYPE_DB2) &&
(e->ErrorNum() == 10054)) )
        m_bCanBePooled = FALSE;

    pData->retval = e->ErrorType();
    pData->error = e->ErrorNum();
    delete e;
    return E_FAIL;
}
catch (...)
{
    WriteMessageToEventLog(TEXT("Unhandledexception."));
    pData->retval = ERR_TYPE_LOGIC;
    pData->error = 0;
    m_bCanBePooled = FALSE;
    return E_FAIL;
}
}

HRESULT CTPCC_Common::Payment(VARIANT txn_in, VARIANT* txn_out)
{
    PPAYMENT_DATA pPayment;
    COM_DATA *pData;
    try
    {
        pData = (COM_DATA*)txn_in.parray->pvData;
        pPayment = m_pTxn->BuffAddr_Payment();

        memcpy(pPayment, &pData->u.Payment,
sizeof(PAYMENT_DATA));

        VariantInit(txn_out);
        txn_out->vt = VT_SAFEARRAY;
        txn_out->parray = SafeArrayCreateVector(
VT_UI1,

txn_in.parray->rgsabound->cElements,

txn_in.parray->rgsabound->cElements);
        pData = (COM_DATA*) txn_out->parray->pvData;

        m_pTxn->Payment(TRUE);

        memcpy( &pData->u.Payment, pPayment,
sizeof(PAYMENT_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
}

```

```

        catch (CBaseErr *e)
        {
            // check for lost database connection; if yes, component is toast
            if ( ((e->ErrorType() == ERR_TYPE_DBLIB) &&
(e->ErrorNum() == 10005)) ||
            ((e->ErrorType() == ERR_TYPE_ODBC) &&
(e->ErrorNum() == 10054)) ||
            ((e->ErrorType() == ERR_TYPE_DB2) &&
(e->ErrorNum() == 10054)) )
                m_bCanBePooled = FALSE;

            pData->retval = e->ErrorType();
            pData->error = e->ErrorNum();
            delete e;
            return E_FAIL;
        }
        catch (...)
        {
            WriteMessageToEventLog(TEXT("Unhandledexception."));
            pData->retval = ERR_TYPE_LOGIC;
            pData->error = 0;
            m_bCanBePooled = FALSE;
            return E_FAIL;
        }
    }

HRESULT CTPCC_Common::StockLevel(VARIANT txn_in, VARIANT* txn_out)
{
    PSTOCK_LEVEL_DATA      pStockLevel;
    COM_DATA                *pData;

    try
    {
        pData = (COM_DATA*)txn_in.parray->pvData;
        pStockLevel = m_pTxn->BuffAddr_StockLevel();

        memcpy(pStockLevel, &pData->u.StockLevel,
sizeof(STOCK_LEVEL_DATA));

        VariantInit(txn_out);
        txn_out->vt = VT_SAFEARRAY;
        txn_out->parray = SafeArrayCreateVector(

VT_UI1,

txn_in.parray->rgsabound->cElements,

txn_in.parray->rgsabound->cElements);
        pData = (COM_DATA*)txn_out->parray->pvData;

        m_pTxn->StockLevel();

        memcpy( &pData->u.StockLevel, pStockLevel,
sizeof(STOCK_LEVEL_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database connection; if yes, component is toast
        if ( ((e->ErrorType() == ERR_TYPE_DBLIB) &&
(e->ErrorNum() == 10005)) ||
            ((e->ErrorType() == ERR_TYPE_ODBC) &&
(e->ErrorNum() == 10054)) ||
            ((e->ErrorType() == ERR_TYPE_DB2) &&
(e->ErrorNum() == 10054)) )
                m_bCanBePooled = FALSE;

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandledexception."));

```

```

        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

HRESULT CTPCC_Common::OrderStatus(VARIANT txn_in, VARIANT* txn_out)
{
    PORDER_STATUS_DATA      pOrderStatus;
    COM_DATA                *pData;

    try
    {
        pData = (COM_DATA*)txn_in.parray->pvData;
        pOrderStatus = m_pTxn->BuffAddr_OrderStatus();

        memcpy(pOrderStatus, &pData->u.OrderStatus,
sizeof(ORDER_STATUS_DATA));

        VariantInit(txn_out);
        txn_out->vt = VT_SAFEARRAY;
        txn_out->parray = SafeArrayCreateVector(

VT_UI1,

txn_in.parray->rgsabound->cElements,

txn_in.parray->rgsabound->cElements);
        pData = (COM_DATA*)txn_out->parray->pvData;

        m_pTxn->OrderStatus();

        memcpy( &pData->u.OrderStatus, pOrderStatus,
sizeof(ORDER_STATUS_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database connection; if yes, component is toast
        if ( ((e->ErrorType() == ERR_TYPE_DBLIB) &&
(e->ErrorNum() == 10005)) ||
            ((e->ErrorType() == ERR_TYPE_ODBC) &&
(e->ErrorNum() == 10054)) ||
            ((e->ErrorType() == ERR_TYPE_DB2) &&
(e->ErrorNum() == 10054)) )
                m_bCanBePooled = FALSE;

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandledexception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

```

tpcc_com_all.def

; tpcc_com_all.def : Declares the module parameters.

```

LIBRARY      "tpcc_com_all.dll"

EXPORTS
    DllCanUnloadNow      @1 PRIVATE
    DllGetClassObject    @2 PRIVATE

```

```
DllRegisterServer @3 PRIVATE
DllUnregisterServer @4 PRIVATE
```

tpcc_com_all.idl

```
/*      FILE:          TPCC.IDL
 *
 *      Microsoft TPC-C Kit Ver. 4.20.000
 *      Copyright Microsoft, 1999
 *
 *      All Rights Reserved
 *
 *
 *      not yet audited
 *
 *      PURPOSE:  IDL source for TPCC.dll.  This file is processed by the MIDL tool
to
 *              produce the type library (TPCC.tlb) and
marshalling code.
 *
 * Change history:
 *
 *      4.20.000 - first version
 */
```

```
interface TPCC;
interface NewOrder;
interface OrderStatus;
interface Payment;
interface StockLevel;
```

```
import "oidl.idl";
import "ocidl.idl";
import "..\tpcc_com_ps\src\tpcc_com_ps.idl";
```

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

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

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

    [
        uuid(266836AD-A50D-11D2-BA4E-00C04FBFE08B),
        helpstring("OrderStatus Class")
    ]
    coclass OrderStatus
    {
        [default] interface ITPCC;
    };

    [
        uuid(CD02F7EF-A4FA-11D2-BA4E-00C04FBFE08B),
        helpstring("Payment Class")
    ]
}
```

```
]
coclass Payment
{
    [default] interface ITPCC;
};

[
    uuid(2668369E-A50D-11D2-BA4E-00C04FBFE08B),
    helpstring("StockLevel Class")
]
coclass StockLevel
{
    [default] interface ITPCC;
};

};
```

tpcc_com_all.rc

```
//Microsoft Developer Studio generated resource script.
//
#include "resource.h"

#define APSTUDIO_READONLY_SYMBOLS
////////////////////////////////////
//
// Generated from the TEXTINCLUDE 2 resource.
//
#include "winres.h"

////////////////////////////////////
#undef APSTUDIO_READONLY_SYMBOLS

////////////////////////////////////
// English (U.S.) resources

#if !defined(AFX_RESOURCE_DLL)|| defined(AFX_TARG_ENU)
#ifdef _WIN32
LANGUAGE LANG_ENGLISH, SUBLANG_ENGLISH_US
#pragma code_page(1252)
#endif // _WIN32

#ifdef APSTUDIO_INVOKED
////////////////////////////////////
//
// TEXTINCLUDE
//
1 TEXTINCLUDE DISCARDABLE
BEGIN
    "resource.h\0"
END

2 TEXTINCLUDE DISCARDABLE
BEGIN
    "#include ""winres.h""\r\n"
    "\0"
END

3 TEXTINCLUDE DISCARDABLE
BEGIN
    "1 TYPELIB ""tpcc_com_all.tlb""\r\n"
    "\0"
END

#endif // APSTUDIO_INVOKED

#ifdef _MAC
////////////////////////////////////
//
// Version
//
```

```

VS_VERSION_INFO VERSIONINFO
FILEVERSION 1,0,0,1
PRODUCTVERSION 1,0,0,1
FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
FILEFLAGS 0x1L
#else
FILEFLAGS 0x0L
#endif
FILEOS 0x4L
FILETYPE 0x2L
FILESUBTYPE 0x0L
BEGIN
    BLOCK "StringFileInfo"
    BEGIN
        BLOCK "040904B0"
        BEGIN
            VALUE "CompanyName", "\0"
            VALUE "FileDescription", "tpcc_com_all Module\0"
            VALUE "FileVersion", "1, 0, 0, 1\0"
            VALUE "InternalName", "TPCCNEWORDER\0"
            VALUE "LegalCopyright", "Copyright 1997\0"
            VALUE "OriginalFilename", "tpcc_com_all.DLL\0"
            VALUE "ProductName", "tpcc_com_all Module\0"
            VALUE "ProductVersion", "1, 0, 0, 1\0"
            VALUE "OLESelfRegister", "\0"
        END
    END
    BLOCK "VarFileInfo"
    BEGIN
        VALUE "Translation", 0x409, 1200
    END
END

#endif // !_MAC

////////////////////////////////////
//
// REGISTRY
//

IDR_TPCC      REGISTRY DISCARDABLE "tpcc_com_all.rgs"
IDR_NEWORDER  REGISTRY DISCARDABLE "tpcc_com_no.rgs"
IDR_ORDERSTATUS  REGISTRY DISCARDABLE "tpcc_com_os.rgs"
IDR_PAYMENT    REGISTRY DISCARDABLE "tpcc_com_pay.rgs"
IDR_STOCKLEVEL REGISTRY DISCARDABLE "tpcc_com_sl.rgs"

////////////////////////////////////
//
// String Table
//

STRINGTABLE DISCARDABLE
BEGIN
    IDS_PROJNAME      "tpcc_com_all"
END

#endif // English (U.S.) resources
////////////////////////////////////

#ifdef APSTUDIO_INVOKED
////////////////////////////////////
//
// Generated from the TEXTINCLUDE 3 resource.
//
1 TYPELIB "tpcc_com_all.tlb"

////////////////////////////////////
#endif // not APSTUDIO_INVOKED

```

tpcc_com_all.rgs

```

HKCR
{
    TPCC.AllTxns.1 = s 'All Txns Class'
    {
        CLSID = s '{122A3128-2520-11D3-BA71-00C04FBFE08B}'
    }
    TPCC.AllTxns = s 'TPCC Class'
    {
        CurVer = s 'TPCC.AllTxns.1'
    }
    NoRemove CLSID
    {
        ForceRemove {122A3128-2520-11D3-BA71-00C04FBFE08B} =
s 'TPCC Class'
        {
            ProgID = s 'TPCC.AllTxns.1'
            VersionIndependentProgID = s 'TPCC.AllTxns'
            InprocServer32 = s '%MODULE%'
            {
                val ThreadingModel = s 'Both'
            }
        }
    }
}

```

tpcc_com_all_remote.cpp

```

/*      FILE:      TPCC_COM_ALL.CPP
*      Microsoft TPC-C Kit Ver. 4.20.000
*      Copyright Microsoft, 1999
*
*      All Rights Reserved
*
*      Version 4.10.000 audited by Richard
Gimarc, Performance Metrics, 3/17/99
*
*      PURPOSE:  Implementation for TPC-C Tuxedo class.
*      Contact:   Charles Levine (clevine@microsoft.com)
*
*      Change history:
*      4.20.000 - updated rev number to match kit
*/

#define STRICT
#define _WIN32_WINNT 0x0400
#define _ATL_APARTMENT_THREADED

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

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

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

#include "tpcc_com_ps.h"
#include "..\..\common\src\trans.h"
//tpckit transaction header contains definitions of structures specific to TPC-C
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\error.h"
#include "..\..\common\src\ReadRegistry.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h" // DBLIB implementation
of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h" // ODBC implementation of
TPC-C txns
#include "..\..\db_db2_dll\src\tpcc_odbc_db2.h" // DB2 ODBC
implementation of TPC-C txns

```

```

#include "resource.h"
#include "tpcc_com_all.h"
#include "tpcc_com_all_i.c"
#include "Methods.h"
#include "..\..\tpcc_com_ps\src\tpcc_com_ps_i.c"
#include "..\..\common\src\ReadRegistry.cpp"

CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)
    OBJECT_ENTRY(CLSID_TPCC, CTPCC)
    OBJECT_ENTRY(CLSID_NewOrder, CNewOrder)
    OBJECT_ENTRY(CLSID_OrderStatus, COrderStatus)
    OBJECT_ENTRY(CLSID_Payment, CPayment)
    OBJECT_ENTRY(CLSID_StockLevel, CStockLevel)
END_OBJECT_MAP()

// configuration settings from registry
TPCCREGISTRYDATA Reg;
char
szMyComputerName[MAX_COMPUTERNAME_LENGTH+1];

static HINSTANCE hLibInstanceDb = NULL;

TYPE_CTPCC_DBLIB *pCTPCC_DBLIB_new;
TYPE_CTPCC_ODBC *pCTPCC_ODBC_new;
TYPE_CTPCC_ODBC_DB2 *pCTPCC_ODBC_DB2_new;

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

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInstance, DWORD dwReason, LPVOID
/*lpReserved*/)
{
    char szDllName[128];

    try
    {
        if (dwReason == DLL_PROCESS_ATTACH)
        {
            _Module.Init(ObjectMap, hInstance);
            DisableThreadLibraryCalls(hInstance);

            DWORD dwSize =
MAX_COMPUTERNAME_LENGTH+1;
            GetComputerName(szMyComputerName, &dwSize);
            szMyComputerName[dwSize] = 0;

            if ( ReadTPCCRegistrySettings( &Reg ) )
                throw new CCOMPONENT_ERR(
ERR_MISSING_REGISTRY_ENTRIES );

            if (Reg.eDB_Protocol == DBLIB)
            {
                strcpy( szDllName, Reg.szPath );
                strcat( szDllName, "tpcc_dblib.dll");
                hLibInstanceDb = LoadLibrary(
szDllName );

                if (hLibInstanceDb == NULL)
                    throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                // get function pointer to wrapper for
class constructor
                pCTPCC_DBLIB_new =
(TYPE_CTPCC_DBLIB*) GetProcAddress(hLibInstanceDb, "CTPCC_DBLIB_new");
                if (pCTPCC_DBLIB_new == NULL)
                    throw new
CCOMPONENT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
            }
            else if (Reg.eDB_Protocol == ODBC)
            {
                strcpy( szDllName, Reg.szPath );

```

```

                strcat( szDllName, "tpcc_odbc.dll");
                hLibInstanceDb = LoadLibrary(
szDllName );

                if (hLibInstanceDb == NULL)
                    throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                // get function pointer to wrapper for
class constructor
                pCTPCC_ODBC_new =
(TYPE_CTPCC_ODBC*) GetProcAddress(hLibInstanceDb, "CTPCC_ODBC_new");
                if (pCTPCC_ODBC_new == NULL)
                    throw new
CCOMPONENT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
            }
            else if (Reg.eDB_Protocol == DB2)
            {
                strcpy( szDllName, Reg.szPath );
                strcat( szDllName, "tpcc_db2.dll");
                hLibInstanceDb = LoadLibrary(
szDllName );

                if (hLibInstanceDb == NULL)
                    throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                // get function pointer to wrapper for
class constructor
                pCTPCC_ODBC_DB2_new =
(TYPE_CTPCC_ODBC_DB2*)
GetProcAddress(hLibInstanceDb, "CTPCC_ODBC_DB2_new");
                if (pCTPCC_ODBC_DB2_new ==
NULL)
                    throw new
CCOMPONENT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
            }
            else
                throw new CCOMPONENT_ERR(
ERR_UNKNOWN_DB_PROTOCOL );
        }
        else if (dwReason == DLL_PROCESS_DETACH)
            _Module.Term();

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

    return TRUE;        // OK
}

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

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

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

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

////////////////////
// DllRegisterServer - Adds entries to the system registry

```

```

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

////////////////////////////////////
// DllUnregisterServer - Removes entries from the system registry

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

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

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

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

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

        (VOID) DeregisterEventSource(hEventSource);
    }
}

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

/* FUNCTION: CCOMPONENT_ERR::ErrorText
 *
 */
char* CCOMPONENT_ERR::ErrorText(void)
{
    static SERRORMSG errorMsgs[] =
    {
        { ERR_MISSING_REGISTRY_ENTRIES, "Required
entries missing from registry." },
        { ERR_LOADDLL_FAILED, "Load of DLL failed. DLL="
},
        { ERR_GETPROCADDR_FAILED, "Could not
map proc in DLL. GetProcAddr error. DLL=" },
        { ERR_UNKNOWN_DB_PROTOCOL, "Unknown database protocol specified in registry." },
        { 0, "" }
    };
}

```

```

char szTmp[256];
int i = 0;
while (TRUE)
{
    if (errorMsgs[i].szMsg[0] == 0)
    {
        strcpy( szTmp, "Unknown error number." );
        break;
    }
    if (m_Error == errorMsgs[i].iError)
    {
        strcpy( szTmp, errorMsgs[i].szMsg );
        break;
    }
    i++;
}

if (m_szTextDetail)
    strcat( szTmp, m_szTextDetail );
if (m_SystemErr)
    vsprintf( szTmp+strlen(szTmp), " Error=%d", m_SystemErr);

m_szErrorText = new char[strlen(szTmp)+1];
strcpy( m_szErrorText, szTmp );
return m_szErrorText;
}

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

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

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

    // get our object context
    HRESULT hr = CoGetObjectContext( IID_IObjectContext, (void
**) &pObjectContext);
    pObjectContext->SetComplete();
    ReleaseInterface(pObjectContext);
    return hr;
}

//
// called by the ctor activator
//
STDMETHODIMP CTPCC_Common::Construct(IDispatch* pUnk)
{
    // Code to access construction string, if needed later...
    // if (!pUnk)
    //     return E_UNEXPECTED;
    // IObjectConstructString* pString = NULL;
    // HRESULT hr =
    pUnk->QueryInterface(IID_IObjectConstructString, (void **) &pString);
    // pString->Release();
    try
    {
        if (Reg.eDB_Protocol == ODBC)
            m_pTxn = pCTPCC_ODBC_new( Reg.szDbServer,
Reg.szDbUser, Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol == DBLIB)
            m_pTxn = pCTPCC_DBLIB_new( Reg.szDbServer,
Reg.szDbUser, Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol == DB2)
            m_pTxn = pCTPCC_ODBC_DB2_new(
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword, szMyComputerName,
Reg.szDbName );
    }
    catch (CBaseErr *e)
    {
    }
}

```

<pre> { WriteMessageToEventLog(e->ErrorText()); delete e; return E_FAIL; } catch (...) { WriteMessageToEventLog(TEXT("Unhandledexception in object ::Construct")); return E_FAIL; } return S_OK; } HRESULT CTPCC_Common::NewOrder(VARIANT txn_in, VARIANT* txn_out) { PNEW_ORDER_DATA pNewOrder; COM_DATA *pData; try { pData = (COM_DATA*)txn_in.parray->pvData; pNewOrder = m_pTxn->BuffAddr_NewOrder(); memcpy(pNewOrder, &pData->u.NewOrder, sizeof(NEW_ORDER_DATA)); VariantInit(txn_out); txn_out->vt = VT_SAFEARRAY; txn_out->parray = SafeArrayCreateVector(VT_UI1, txn_in.parray->rgsabound->cElements, txn_in.parray->rgsabound->cElements); pData = (COM_DATA*) txn_out->parray->pvData; m_pTxn->NewOrder(); memcpy(&pData->u.NewOrder, pNewOrder, sizeof(NEW_ORDER_DATA)); pData->retval = ERR_SUCCESS; pData->error = 0; return S_OK; } catch (CBaseErr *e) { // check for lost database connection; if yes, component is toast if (((e->ErrorType() == ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ((e->ErrorType() == ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) ((e->ErrorType() == ERR_TYPE_DB2) && (e->ErrorNum() == 10054))) m_bCanBePooled = FALSE; pData->retval = e->ErrorType(); pData->error = e->ErrorNum(); delete e; return E_FAIL; } catch (...) { WriteMessageToEventLog(TEXT("Unhandledexception.")); pData->retval = ERR_TYPE_LOGIC; pData->error = 0; m_bCanBePooled = FALSE; return E_FAIL; } } HRESULT CTPCC_Common::Payment(VARIANT txn_in, VARIANT* txn_out) { PPAYMENT_DATA pPayment; COM_DATA *pData; try </pre>	<pre> { pData = (COM_DATA*)txn_in.parray->pvData; pPayment = m_pTxn->BuffAddr_Payment(); memcpy(pPayment, &pData->u.Payment, sizeof(PAYMENT_DATA)); VariantInit(txn_out); txn_out->vt = VT_SAFEARRAY; txn_out->parray = SafeArrayCreateVector(VT_UI1, txn_in.parray->rgsabound->cElements, txn_in.parray->rgsabound->cElements); pData = (COM_DATA*) txn_out->parray->pvData; m_pTxn->Payment(); memcpy(&pData->u.Payment, pPayment, sizeof(PAYMENT_DATA)); pData->retval = ERR_SUCCESS; pData->error = 0; return S_OK; } catch (CBaseErr *e) { // check for lost database connection; if yes, component is toast if (((e->ErrorType() == ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ((e->ErrorType() == ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) ((e->ErrorType() == ERR_TYPE_DB2) && (e->ErrorNum() == 10054))) m_bCanBePooled = FALSE; pData->retval = e->ErrorType(); pData->error = e->ErrorNum(); delete e; return E_FAIL; } catch (...) { WriteMessageToEventLog(TEXT("Unhandledexception.")); pData->retval = ERR_TYPE_LOGIC; pData->error = 0; m_bCanBePooled = FALSE; return E_FAIL; } } HRESULT CTPCC_Common::StockLevel(VARIANT txn_in, VARIANT* txn_out) { PSTOCK_LEVEL_DATA pStockLevel; COM_DATA *pData; try { pData = (COM_DATA*)txn_in.parray->pvData; pStockLevel = m_pTxn->BuffAddr_StockLevel(); memcpy(pStockLevel, &pData->u.StockLevel, sizeof(STOCK_LEVEL_DATA)); VariantInit(txn_out); txn_out->vt = VT_SAFEARRAY; txn_out->parray = SafeArrayCreateVector(VT_UI1, txn_in.parray->rgsabound->cElements, txn_in.parray->rgsabound->cElements); pData = (COM_DATA*)txn_out->parray->pvData; m_pTxn->StockLevel(); </pre>
--	--

```

        memcpy( &pData->u.StockLevel, pStockLevel,
sizeof(STOCK_LEVEL_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database connection; if yes, component is toast
        if ( ((e->ErrorType() == ERR_TYPE_DBLIB) &&
(e->ErrorNum() == 10005)) ||
                ((e->ErrorType() == ERR_TYPE_ODBC) &&
(e->ErrorNum() == 10054)) ||
                ((e->ErrorType() == ERR_TYPE_DB2) &&
(e->ErrorNum() == 10054)) )
            m_bCanBePooled = FALSE;

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandledexception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

HRESULT CTPCC_Common::OrderStatus(VARIANT txn_in, VARIANT* txn_out)
{
    PORDER_STATUS_DATA      pOrderStatus;
    COM_DATA                  *pData;
    try
    {
        pData = (COM_DATA*)txn_in.parray->pvData;
        pOrderStatus = m_pTxn->BuffAddr_OrderStatus();

        memcpy(pOrderStatus, &pData->u.OrderStatus,
sizeof(ORDER_STATUS_DATA));

        VariantInit(txn_out);
        txn_out->vt = VT_SAFEARRAY;
        txn_out->parray = SafeArrayCreateVector(

VT_UI1,

txn_in.parray->rgsabound->cElements,

txn_in.parray->rgsabound->cElements);
        pData = (COM_DATA*)txn_out->parray->pvData;

        m_pTxn->OrderStatus();

        memcpy( &pData->u.OrderStatus, pOrderStatus,
sizeof(ORDER_STATUS_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database connection; if yes, component is toast
        if ( ((e->ErrorType() == ERR_TYPE_DBLIB) &&
(e->ErrorNum() == 10005)) ||
                ((e->ErrorType() == ERR_TYPE_ODBC) &&
(e->ErrorNum() == 10054)) ||
                ((e->ErrorType() == ERR_TYPE_DB2) &&
(e->ErrorNum() == 10054)) )
            m_bCanBePooled = FALSE;

```

```

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandledexception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

```

tpcc_com_all_resource.h

```

//{{NO_DEPENDENCIES}}
// Microsoft Developer Studio generated include file.
// Used by tpcc_com_all.rc
//
#define IDS_PROJNAME            100
#define IDR_TPCC                101
#define IDR_NEWORDER            102
#define IDR_ORDERSTATUS         103
#define IDR_PAYMENT             104
#define IDR_STOCKLEVEL          105

// Next default values for new objects
//
#ifndef APSTUDIO_INVOKED
#ifndef APSTUDIO_READONLY_SYMBOLS
#define _APS_NEXT_RESOURCE_VALUE        202
#define _APS_NEXT_COMMAND_VALUE        32768
#define _APS_NEXT_CONTROL_VALUE        201
#define _APS_NEXT_SYMED_VALUE          106
#endif
#endif

```

tpcc_com_no.rgs

```

HKCR
{
    TPCC.NewOrder.1 = s 'NewOrder Class'
    {
        CLSID = s '{975BAABF-84A7-11D2-BA47-00C04FBFE08B}'
    }
    TPCC.NewOrder = s 'NewOrder Class'
    {
        CurVer = s 'TPCC.NewOrder.1'
    }
    NoRemove CLSID
    {
        ForceRemove {975BAABF-84A7-11D2-BA47-00C04FBFE08B}
    }
    {
        ProgID = s 'TPCC.NewOrder.1'
        VersionIndependentProgID = s 'TPCC.NewOrder'
        InprocServer32 = s '%MODULE%'
        {
            val ThreadingModel = s 'Both'
        }
    }
}

```

tpcc_com_os.rgs

```

HKCR
{
    TPCC.OrderStatus.1 = s 'OrderStatus Class'
    {
        CLSID = s '{266836AD-A50D-11D2-BA4E-00C04FBFE08B}'
    }
}

```

```

    }
    TPCC.OrderStatus = s 'OrderStatus Class'
    {
        CurVer = s 'TPCC.OrderStatus.1'
    }
    NoRemove CLSID
    {
        ForceRemove {266836AD-A50D-11D2-BA4E-00C04FBFE08B}
    }
}
= s 'OrderStatus Class'
{
    ProgID = s 'TPCC.OrderStatus.1'
    VersionIndependentProgID = s 'TPCC.OrderStatus'
    InprocServer32 = s '%MODULE%'
    {
        val ThreadingModel = s 'Both'
    }
}
}
}

```

tpcc_com_pay.rgs

```

HKCR
{
    TPCC.Payment.1 = s 'Payment Class'
    {
        CLSID = s '{CD02F7EF-A4FA-11D2-BA4E-00C04FBFE08B}'
    }
    TPCC.Payment = s 'Payment Class'
    {
        CurVer = s 'TPCC.Payment.1'
    }
    NoRemove CLSID
    {
        ForceRemove {CD02F7EF-A4FA-11D2-BA4E-00C04FBFE08B}
    }
    {
        ProgID = s 'TPCC.Payment.1'
        VersionIndependentProgID = s 'TPCC.Payment'
        InprocServer32 = s '%MODULE%'
        {
            val ThreadingModel = s 'Both'
        }
    }
}
}
}

```

tpcc_com_ps.def

```

LIBRARY "tpcc_com_ps"

DESCRIPTION 'Proxy/Stub DLL'

EXPORTS
    DllGetClassObject @1 PRIVATE
    DllCanUnloadNow @2 PRIVATE
    GetProxyDllInfo @3 PRIVATE
    DllRegisterServer @4 PRIVATE
    DllUnregisterServer @5 PRIVATE

```

tpcc_com_ps.idl

```

/* FILE: ITPCC.IDL
* Microsoft TPC-C Kit Ver. 4.20.000
* Copyright Microsoft, 1999
* All Rights Reserved
*
* not yet audited
*
* PURPOSE: Defines the interface used by TPCC. This interface can be
implemented by C++ components.

```

```

*
* Change history:
* 4.20.000 - first version
*/

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

[
    object,
    oleautomation,
    uuid(FEEE6AA2-84B1-11d2-BA47-00C04FBFE08B),
    helpstring("ITPCC Interface"),
    pointer_default(unique)
]
interface ITPCC : IUnknown
{
    HRESULT _stdcall NewOrder
        (
            [in]
            VARIANT txn_in,
            [out]
            VARIANT *txn_out
        );

    HRESULT _stdcall Payment
        (
            [in]
            VARIANT txn_in,
            [out]
            VARIANT *txn_out
        );

    HRESULT _stdcall Delivery
        (
            [in]
            VARIANT txn_in
        );

    HRESULT _stdcall StockLevel
        (
            [in]
            VARIANT txn_in,
            [out]
            VARIANT *txn_out
        );

    HRESULT _stdcall OrderStatus
        (
            [in]
            VARIANT txn_in,
            [out]
            VARIANT *txn_out
        );

    HRESULT _stdcall CallSetComplete
        (
        );

}; // interface ITPCC

```

tpcc_com_rem.cpp

```

/* FILE: TPCC_COM.CPP
* Microsoft TPC-C Kit Ver. 4.20.000
* Copyright Microsoft, 1999
* All Rights Reserved
*
* not yet audited
*
* PURPOSE: Source file for TPC-C COM+ class implementation.
Contact: Charles Levine (clevine@microsoft.com)

```

```

*
* Change history:
*               4.20.000 - first version
*/

// needed for CoInitializeEx
#define _WIN32_WINNT 0x0400

#include <windows.h>

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

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

#include "..\..\tpcc_com_remote_ps\src\tpcc_com_remote_ps_i.c"
#include "..\..\tpcc_com_remote\src\tpcc_com_remote_i.c"

// wrapper routine for class constructor
__declspec( dllexport ) CTPCC_COM_REM* CTPCC_COM_REM_new(BOOL
bSinglePool)
{
    return new CTPCC_COM_REM(bSinglePool);
}

CTPCC_COM_REM::CTPCC_COM_REM(BOOL bSinglePool)
{
    HRESULT hr = NULL;
    long lRet = 0;
    ULONG ulTmpSize = 0;

    m_bSinglePool = bSinglePool;

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

/*
    m_pTxn = (COM_DATA*)CoTaskMemAlloc(sizeof(COM_DATA));
    if (!m_pTxn)
        throw new CCOMERR( E_FAIL );
*/

    ulTmpSize = (ULONG) sizeof(COM_DATA);
    VariantInit(&m_vTxn);
    m_vTxn.vt = VT_SAFEARRAY;

    m_vTxn.parray = SafeArrayCreateVector(
VT_UI1,
ulTmpSize,
ulTmpSize);
    if (!m_vTxn.parray)
        throw new CCOMERR( E_FAIL );

    memset((void*)m_vTxn.parray->pvData,0,ulTmpSize);

    m_pTxn = (COM_DATA*)m_vTxn.parray->pvData;

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

    // create components
    if (m_bSinglePool)
    {
        hr = CoCreateInstance(CLSID_TPCCrem, NULL,
CLSCTX_SERVER, IID_ITPCCrem, (void **)&m_pNewOrder);
        if (FAILED(hr))
            throw new CCOMERR(hr);

```

```

        // all txns will use same component
        m_pPayment = m_pNewOrder;
        m_pStockLevel = m_pNewOrder;
        m_pOrderStatus = m_pNewOrder;
    }
    else
    {
        // use different components for eachtxn

        hr = CoCreateInstance(CLSID_NewOrder, NULL,
CLSCTX_SERVER, IID_ITPCCrem, (void **)&m_pNewOrder);
        if (FAILED(hr))
            throw new CCOMERR(hr);

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

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

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

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

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

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

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

CTPCC_COM_REM::~CTPCC_COM_REM()
{
    if (m_pTxn)
        SafeArrayDestroy(m_vTxn.parray);

    ReleaseInterface(m_pNewOrder);
    if (!m_bSinglePool)
    {
        ReleaseInterface(m_pPayment);
        ReleaseInterface(m_pStockLevel);
        ReleaseInterface(m_pOrderStatus);
    }
    CoUninitialize();
}

void CTPCC_COM_REM::NewOrder()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pNewOrder->NewOrder(m_vTxn, &vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );

    memcpy(m_pTxn, (void
*)vTxn_out.parray->pvData, vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);
}

```

```

        if ( m_pTxn->ErrorType != ERR_SUCCESS )
            throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error);
    }

void CTPCC_COM_REM::Payment()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pPayment->Payment(m_vTxn,&vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );
    memcpy(m_pTxn,(void
*)vTxn_out.parray->pvData,vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error);
}

void CTPCC_COM_REM::StockLevel()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pStockLevel->StockLevel(m_vTxn,&vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );
    memcpy(m_pTxn,(void
*)vTxn_out.parray->pvData,vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error);
}

void CTPCC_COM_REM::OrderStatus()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pOrderStatus->OrderStatus(m_vTxn,&vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );
    memcpy(m_pTxn,(void
*)vTxn_out.parray->pvData,vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn->ErrorType, m_pTxn->error);
}

```

tpcc_com_rem.h

```

/*      FILE:          TPCC_COM.H
*
*      Microsoft TPC-C Kit Ver. 4.20.000
*      Copyright Microsoft, 1999
*
*      All Rights Reserved
*
*      not yet audited
*
*      PURPOSE: Header file for TPC-C COM+ class implementation.
*
*      Change history:
*      4.20.000 - first version
*/

#pragma once

#include <stdio.h>
#include "..\..\tpcc_com_ps\src\tpcc_com_ps.h"
#include "..\..\tpcc_com_remote_ps\src\tpcc_com_remote_ps.h"

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

```

```

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

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

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

    int m_hr;
    int m_iErrorType;
    int m_iError;

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

    int ErrorNum() {return m_hr;}

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

        return m_szErrorText;
    }
};

class DllDecl CTPCC_COM : public CTPCC_BASE
{
private:
    BOOL m_bSinglePool;

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

    struct COM_DATA
    {
        int ErrorType;
        int error;
        union
        {
            NEW_ORDER_DATA
            PAYMENT_DATA
            DELIVERY_DATA
            STOCK_LEVEL_DATA StockLevel;
        }
    }
}

```

```

ORDER_STATUS_DATA

OrderStatus;
    } u;
    } *m_pTxn;

    VARIANT m_vTxn;

public:
    CTPCC_COM(BOOL bSinglePool);
    ~CTPCC_COM(void);

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

    void NewOrder          ();
    void Payment           ();
    void StockLevel        ();
    void OrderStatus       ();
    void Delivery           () { throw new
CCOMERR(E_NOTIMPL); } // not supported
};

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

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

typedef CTPCC_COM* (TYPE_CTPCC_COM)(BOOL);

class DllDecl CTPCC_COM_REMOTE : public CTPCC_BASE
{
private:
    BOOL m_bSinglePool;

    // COM Interface pointers
    ITPCCRem* m_pNewOrder;
    ITPCCRem* m_pPayment;
    ITPCCRem* m_pStockLevel;
    ITPCCRem* m_pOrderStatus;

    struct COM_DATA
    {
        int ErrorType;
        int error;
        union
        {
            NEW_ORDER_DATA
            PAYMENT_DATA
            DELIVERY_DATA
            STOCK_LEVEL_DATA StockLevel;
            ORDER_STATUS_DATA

        }
    };

    } u;
    } *m_pTxn;

    VARIANT m_vTxn;

public:
    CTPCC_COM_REMOTE(BOOL bSinglePool);
    ~CTPCC_COM_REMOTE(void);

```

```

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

    void NewOrder          ();
    void Payment           ();
    void StockLevel        ();
    void OrderStatus       ();
    void Delivery           () { throw new
CCOMERR(E_NOTIMPL); } // not supported
};

// wrapper routine for class constructor
extern "C" __declspec(dllexport) CTPCC_COM_REMOTE*
CTPCC_COM_REMOTE_new(BOOL);

typedef CTPCC_COM_REMOTE* (TYPE_CTPCC_COM_REMOTE)(BOOL);

```

tpcc_com_remote.cpp

```

/*      FILE:      TPCC_COM_REMOTE.CPP
 *
 *      Microsoft TPC-C Kit Ver. 4.20.000
 *      Copyright Microsoft, 1999
 *
 *      All Rights Reserved
 *
 *      Version 4.10.000 audited by Richard
Gimarc, Performance Metrics, 3/17/99
 *
 *      PURPOSE:  Implementation for TPC-C Tuxedo class.
 *      Contact:   Charles Levine (clevine@microsoft.com)
 *
 *      Change history:
 *
 *      4.20.000 - updated rev number to match kit
 */

#define STRICT
#define _WIN32_WINNT 0x0400
#define _ATL_APARTMENT_THREADED

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

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

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

#include "tpcc_com_remote_ps.h"
#include "..\..\common\src\trans.h"
//tpckit transaction header contains definitions of structures specific to TPC-C
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\error.h"
#include "..\..\common\src\ReadRegistry.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h" // DBLIB implementation
of TPC-C txns

```

```

#include "..\..\db_odbc_dll\src\tpcc_odbc.h" // ODBC implementation of
TPC-C txns
#include "..\..\db_db2_dll\src\tpcc_odbc_db2.h" // DB2 ODBC
implementation of TPC-C txns

#include "resource.h"
#include "tpcc_com_remote.h"
#include "tpcc_com_remote_i.c"
#include "Methods.h"
#include "..\..\tpcc_com_remote_ps\src\tpcc_com_remote_ps_i.c"
#include "..\..\common\src\ReadRegistry.cpp"

CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)
    OBJECT_ENTRY(CLSID_TPCRem, CTPCCRem)
END_OBJECT_MAP()

// configuration settings from registry
TPCCREGISTRYDATA Reg;
char
szMyComputerName[MAX_COMPUTERNAME_LENGTH+1];

static HINSTANCE hLibInstanceDb = NULL;

TYPE_CTPCC_DBLIB *pCTPCC_DBLIB_new;
TYPE_CTPCC_ODBC *pCTPCC_ODBC_new;
TYPE_CTPCC_ODBC_DB2 *pCTPCC_ODBC_DB2_new;

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

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInstance, DWORD dwReason, LPVOID
/*lpReserved*/)
{
    char szDllName[128];

    try
    {
        if (dwReason == DLL_PROCESS_ATTACH)
        {
            _Module.Init(ObjectMap, hInstance);
            DisableThreadLibraryCalls(hInstance);

            DWORD dwSize =
            MAX_COMPUTERNAME_LENGTH+1;
            GetComputerName(szMyComputerName,&dwSize);
            szMyComputerName[dwSize] = 0;

            if ( ReadTPCCRegistrySettings( &Reg ) )
                throw new CCOMPONENT_ERR(
ERR_MISSING_REGISTRY_ENTRIES );

            if (Reg.eDB_Protocol == DBLIB)
            {
                strcpy( szDllName, Reg.szPath );
                strcat( szDllName, "tpcc_dblib.dll");
                hLibInstanceDb = LoadLibrary(
szDllName );

                if (hLibInstanceDb == NULL)
                    throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED,szDllName, GetLastError() );

                // get function pointer to wrapper for
                class constructor
                pCTPCC_DBLIB_new =
                (TYPE_CTPCC_DBLIB*) GetProcAddress(hLibInstanceDb,"CTPCC_DBLIB_new");
                if (pCTPCC_DBLIB_new == NULL)
                    throw new
CCOMPONENT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
            }
            else if (Reg.eDB_Protocol == ODBC)
            {
                strcpy( szDllName, Reg.szPath );
                strcat( szDllName, "tpcc_db2.dll");
                hLibInstanceDb = LoadLibrary(
szDllName );

                if (hLibInstanceDb == NULL)
                    throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED,szDllName, GetLastError() );

                // get function pointer to wrapper for
                class constructor
                pCTPCC_ODBC_DB2_new =
                (TYPE_CTPCC_ODBC_DB2*)
                GetProcAddress(hLibInstanceDb,"CTPCC_ODBC_DB2_new");
                if (pCTPCC_ODBC_DB2_new ==
                NULL)
                    throw new
CCOMPONENT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
            }
            else
                throw new CCOMPONENT_ERR(
ERR_UNKNOWN_DB_PROTOCOL );
            else if (dwReason == DLL_PROCESS_DETACH)
                _Module.Term();
        }
        catch (CBaseErr *e)
        {
            WriteMessageToEventLog(e->ErrorText());
            delete e;
            return FALSE;
        }
        catch (...)
        {
            WriteMessageToEventLog(TEXT("Unhandledexception in object
DllMain"));
            return FALSE;
        }
        return TRUE; // OK
    }
}

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

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

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

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

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

```

```

strcpy( szDllName, Reg.szPath );
strcat( szDllName, "tpcc_odbc.dll");
hLibInstanceDb = LoadLibrary(
szDllName );

if (hLibInstanceDb == NULL)
    throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED,szDllName, GetLastError() );

// get function pointer to wrapper for
class constructor
pCTPCC_ODBC_new =
(TYPE_CTPCC_ODBC*) GetProcAddress(hLibInstanceDb,"CTPCC_ODBC_new");
if (pCTPCC_ODBC_new == NULL)
    throw new
CCOMPONENT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
}
else if (Reg.eDB_Protocol == DB2)
{
    strcpy( szDllName, Reg.szPath );
    strcat( szDllName, "tpcc_db2.dll");
    hLibInstanceDb = LoadLibrary(
szDllName );

    if (hLibInstanceDb == NULL)
        throw new
CCOMPONENT_ERR( ERR_LOADDLL_FAILED,szDllName, GetLastError() );

    // get function pointer to wrapper for
    class constructor
    pCTPCC_ODBC_DB2_new =
    (TYPE_CTPCC_ODBC_DB2*)
    GetProcAddress(hLibInstanceDb,"CTPCC_ODBC_DB2_new");
    if (pCTPCC_ODBC_DB2_new ==
    NULL)
        throw new
CCOMPONENT_ERR( ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
    }
    else
        throw new CCOMPONENT_ERR(
ERR_UNKNOWN_DB_PROTOCOL );
    else if (dwReason == DLL_PROCESS_DETACH)
        _Module.Term();
}
catch (CBaseErr *e)
{
    WriteMessageToEventLog(e->ErrorText());
    delete e;
    return FALSE;
}
catch (...)
{
    WriteMessageToEventLog(TEXT("Unhandledexception in object
DllMain"));
    return FALSE;
}
return TRUE; // OK
}

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

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

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

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

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

```

// DllRegisterServer - Adds entries to the system registry

STDAPI DllRegisterServer(void)

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

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

// DllUnregisterServer - Removes entries from the system registry

STDAPI DllUnregisterServer(void)

```
{
    _Module.UnregisterServer();
    return S_OK;
}
```

static void WriteMessageToEventLog(LPTSTR lpszMsg)

```
{
    TCHAR szMsg[256];
    HANDLE hEventSource;
    LPTSTR lpszStrings[2];

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

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

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

        (VOID) DeregisterEventSource(hEventSource);
    }
}
```

inline void ReleaseInterface(IUnknown *pUnk)

```
{
    if (pUnk)
    {
        pUnk->Release();
        pUnk = NULL;
    }
}

/* FUNCTION: CCOMPONENT_ERR::ErrorText
*
*/

char* CCOMPONENT_ERR::ErrorText(void)
{
    static SERRORMSG errorMsgs[] =
    {
        { ERR_MISSING_REGISTRY_ENTRIES, "Required
entries missing from registry." },
        { ERR_LOADDLL_FAILED, "Load of DLL failed. DLL=" },
        { ERR_GETPROCADDR_FAILED, "Could not
map proc in DLL. GetProcAddr error. DLL=" },
        { ERR_UNKNOWN_DB_PROTOCOL, "Unknown database protocol specified in registry." },
        { 0, "" }
    };
}
```

char szTmp[256];

int i = 0;

while (TRUE)

```
{
    if (errorMsgs[i].szMsg[0] == 0)
    {
        strcpy( szTmp, "Unknown error number." );
        break;
    }
    if (m_Error == errorMsgs[i].iError)
    {
        strcpy( szTmp, errorMsgs[i].szMsg );
        break;
    }
    i++;
}

if (m_szTextDetail)
    strcat( szTmp, m_szTextDetail );
if (m_SystemErr)
    wsprintf( szTmp+strlen(szTmp), " Error=%d", m_SystemErr );

m_szErrorText = new char[strlen(szTmp)+1];
strcpy( m_szErrorText, szTmp );
return m_szErrorText;
}
```

CTPCC_Common_Remote::CTPCC_Common_Remote()

```
{
    m_pTxn = NULL;
    m_bCanBePooled = TRUE;
}
```

CTPCC_Common_Remote::~CTPCC_Common_Remote()

```
{
    if (m_pTxn)
        delete m_pTxn;
}
```

HRESULT CTPCC_Common_Remote::CallSetComplete()

```
{
    IObjectContext* pObjectContext = NULL;

    // get our object context
    HRESULT hr = CoGetObjectContext( IID_IObjectContext, (void
**) &pObjectContext );
    pObjectContext->SetComplete();
    ReleaseInterface(pObjectContext);
    return hr;
}
```

//
// called by the ctor activator
//

STDMETHODIMP CTPCC_Common_Remote::Construct(IDispatch* pUnk)

```
{
    // Code to access construction string, if needed later...
    // if (!pUnk)
    //     return E_UNEXPECTED;
    // IObjectConstructString* pString = NULL;
    // HRESULT hr =
    pUnk->QueryInterface(IID_IObjectConstructString, (void **) &pString);
    // pString->Release();
    try
    {
        if (Reg.eDB_Protocol == ODBC)
            m_pTxn = pCTPCC_ODBC_new( Reg.szDbServer,
Reg.szDbUser, Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol == DBLIB)
            m_pTxn = pCTPCC_DBLIB_new( Reg.szDbServer,
Reg.szDbUser, Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol == DB2)
            m_pTxn = pCTPCC_ODBC_DB2_new(
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword, szMyComputerName,
Reg.szDbName );
    }
}
```

<pre> catch (CBaseErr *e) { WriteMessageToEventLog(e->ErrorText()); delete e; return E_FAIL; } catch (...) { WriteMessageToEventLog(TEXT("Unhandledexception in object ::Construct")); return E_FAIL; } return S_OK; } HRESULT CTPCC_Common_Remote::NewOrder(VARIANT txn_in, VARIANT* txn_out) { PNEW_ORDER_DATA pNewOrder; COM_DATA *pData; try { pData = (COM_DATA*)txn_in.parray->pvData; pNewOrder = m_pTnx->BuffAddr_NewOrder(); memcpy(pNewOrder, &pData->u.NewOrder, sizeof(NEW_ORDER_DATA)); VariantInit(txn_out); txn_out->vt = VT_SAFEARRAY; txn_out->parray = SafeArrayCreateVector(VT_UI1, txn_in.parray->rgsabound->cElements, txn_in.parray->rgsabound->cElements); pData = (COM_DATA*) txn_out->parray->pvData; m_pTnx->Payment(FALSE); memcpy(&pData->u.NewOrder, pNewOrder, sizeof(NEW_ORDER_DATA)); pData->retval = ERR_SUCCESS; pData->error = 0; return S_OK; } catch (CBaseErr *e) { // check for lost database connection; if yes, component is toast if (((e->ErrorType() == ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ((e->ErrorType() == ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) ((e->ErrorType() == ERR_TYPE_DB2) && (e->ErrorNum() == 10054))) m_bCanBePooled = FALSE; pData->retval = e->ErrorType(); pData->error = e->ErrorNum(); delete e; return E_FAIL; } catch (...) { WriteMessageToEventLog(TEXT("Unhandledexception.")); pData->retval = ERR_TYPE_LOGIC; pData->error = 0; m_bCanBePooled = FALSE; return E_FAIL; } } HRESULT CTPCC_Common_Remote::Payment(VARIANT txn_in, VARIANT* txn_out) { PPAYMENT_DATA pPayment; COM_DATA *pData; </pre>	<pre> try { pData = (COM_DATA*)txn_in.parray->pvData; pPayment = m_pTnx->BuffAddr_Payment(); memcpy(pPayment, &pData->u.Payment, sizeof(PAYMENT_DATA)); VariantInit(txn_out); txn_out->vt = VT_SAFEARRAY; txn_out->parray = SafeArrayCreateVector(VT_UI1, txn_in.parray->rgsabound->cElements, txn_in.parray->rgsabound->cElements); pData = (COM_DATA*) txn_out->parray->pvData; m_pTnx->Payment(FALSE); memcpy(&pData->u.Payment, pPayment, sizeof(PAYMENT_DATA)); pData->retval = ERR_SUCCESS; pData->error = 0; return S_OK; } catch (CBaseErr *e) { // check for lost database connection; if yes, component is toast if (((e->ErrorType() == ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ((e->ErrorType() == ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) ((e->ErrorType() == ERR_TYPE_DB2) && (e->ErrorNum() == 10054))) m_bCanBePooled = FALSE; pData->retval = e->ErrorType(); pData->error = e->ErrorNum(); delete e; return E_FAIL; } catch (...) { WriteMessageToEventLog(TEXT("Unhandledexception.")); pData->retval = ERR_TYPE_LOGIC; pData->error = 0; m_bCanBePooled = FALSE; return E_FAIL; } } HRESULT CTPCC_Common_Remote::StockLevel(VARIANT txn_in, VARIANT* txn_out) { PSTOCK_LEVEL_DATA pStockLevel; COM_DATA *pData; try { pData = (COM_DATA*)txn_in.parray->pvData; pStockLevel = m_pTnx->BuffAddr_StockLevel(); memcpy(pStockLevel, &pData->u.StockLevel, sizeof(STOCK_LEVEL_DATA)); VariantInit(txn_out); txn_out->vt = VT_SAFEARRAY; txn_out->parray = SafeArrayCreateVector(VT_UI1, txn_in.parray->rgsabound->cElements, txn_in.parray->rgsabound->cElements); pData = (COM_DATA*)txn_out->parray->pvData; </pre>
---	--

```

        m_pTxn->StockLevel();

        memcpy( &pData->u.StockLevel, pStockLevel,
sizeof(STOCK_LEVEL_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database connection; if yes, component is toast
        if ( ((e->ErrorType() == ERR_TYPE_DBLIB) &&
(e->ErrorNum() == 10005)) ||
((e->ErrorType() == ERR_TYPE_ODBC) &&
(e->ErrorNum() == 10054)) ||
((e->ErrorType() == ERR_TYPE_DB2) &&
(e->ErrorNum() == 10054)) )
            m_bCanBePooled = FALSE;

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandledexception.));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

HRESULT CTPCC_Common_Remote::OrderStatus(VARIANT txn_in, VARIANT*
txn_out)
{
    PORTDER_STATUS_DATA      pOrderStatus;
    COM_DATA                  *pData;
    try
    {
        pData = (COM_DATA*)txn_in.parray->pvData;
        pOrderStatus = m_pTxn->BuffAddr_OrderStatus();

        memcpy(pOrderStatus, &pData->u.OrderStatus,
sizeof(ORDER_STATUS_DATA));

        VariantInit(txn_out);
        txn_out->vt = VT_SAFEARRAY;
        txn_out->parray = SafeArrayCreateVector(

VT_UI1,

txn_in.parray->rgsabound->cElements,

txn_in.parray->rgsabound->cElements);
        pData = (COM_DATA*)txn_out->parray->pvData;

        m_pTxn->OrderStatus();

        memcpy( &pData->u.OrderStatus, pOrderStatus,
sizeof(ORDER_STATUS_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database connection; if yes, component is toast
        if ( ((e->ErrorType() == ERR_TYPE_DBLIB) &&
(e->ErrorNum() == 10005)) ||
((e->ErrorType() == ERR_TYPE_ODBC) &&
(e->ErrorNum() == 10054)) ||

```

```

((e->ErrorType() == ERR_TYPE_DB2) &&
(e->ErrorNum() == 10054)) )
            m_bCanBePooled = FALSE;

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandledexception.));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

```

tpcc_com_remote.def

; tpcc_com_remote.def : Declares the module parameters.

```

LIBRARY      "tpcc_com_remote.dll"

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

```

tpcc_com_remote.h

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

```

/* File created by MIDL compiler version 5.01.0164*/
/* at Fri Jun 02 15:09:35 2000
*/
/* Compiler settings for .\src\tpcc_com_remote.idl:
    Oicf (OptLev=i2), W1, Zp8, env=Win32, ms_ext, c_ext
    error checks: allocation ref bounds_check enum stub_data
*/
@@@MIDL_FILE_HEADING( )

```

```

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

```

```

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

```

```

#ifndef __tpcc_com_remote_h__
#define __tpcc_com_remote_h__

```

```

#ifdef __cplusplus
extern "C" {
#endif

```

/* Forward Declarations */

```

#ifndef __TPCCrem_FWD_DEFINED__
#define __TPCCrem_FWD_DEFINED__

```

```

#ifdef __cplusplus
typedef class TPCCrem TPCCrem;
#else
typedef struct TPCCrem TPCCrem;
#endif /* __cplusplus */

```

```

#endif /* __TPCCrem_FWD_DEFINED__ */

```

```

/* header files for imported files */
#include "oidl.h"
#include "ocidl.h"
#include "tpcc_com_remote_ps.h"

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

/* interface __MIDL_itf_tpcc_com_remote_0000 */
/* [local] */

extern RPC_IF_HANDLE __MIDL_itf_tpcc_com_remote_0000_v0_0_c_ifspec;
extern RPC_IF_HANDLE __MIDL_itf_tpcc_com_remote_0000_v0_0_s_ifspec;

#ifndef __TPCCremLib_LIBRARY_DEFINED__
#define __TPCCremLib_LIBRARY_DEFINED__

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

EXTERN_C const IID LIBID_TPCCremLib;

EXTERN_C const CLSID CLSID_TPCCrem;

#ifdef __cplusplus

class DECLSPEC_UUID("63EC25AB-828A-4ed7-8C6C-B46D29889594")
TPCCrem;
#endif
#endif /* __TPCCremLib_LIBRARY_DEFINED__ */

/* Additional Prototypes for ALL interfaces */

/* end of Additional Prototypes */

#ifdef __cplusplus
}
#endif

#endif

```

tpcc_com_remote.idl

```

/*      FILE:          TPCC.IDL
 *
 *      Microsoft TPC-C Kit Ver. 4.20.000
 *      Copyright Microsoft, 1999
 *
 *      All Rights Reserved
 *
 *      not yet audited
 *
 *      PURPOSE:  IDL source for TPCC.dll.  This file is processed by the MIDL tool
to      produce the type library (TPCC.tlb) and
 *      marshalling code.
 *
 *      Change history:
 *      4.20.000 - first version
 */

interface TPCCrem;

import "oidl.idl";
import "ocidl.idl";
import "..\tpcc_com_remote_ps\src\tpcc_com_remote_ps.idl";

[
    uuid(B207575F-7A88-489a-9383-859E2D771537),
    version(1.0),

```

```

    helpstring("Remote TPC-C 1.0 Type Library")
]
library TPCCremLib
{
    importlib("stdole32.tlb");
    importlib("stdole2.tlb");

    [
        uuid(63EC25AB-828A-4ed7-8C6C-B46D29889594),
        helpstring("Remote All Txns Class")
    ]
    coclass TPCCrem
    {
        [default] interface ITPCCrem;
    };
};

```

tpcc_com_remote.rc

```

//Microsoft Developer Studio generated resource script.
//
#include "resource.h"

#define APSTUDIO_READONLY_SYMBOLS
////////////////////////////////////
//
// Generated from the TEXTINCLUDE 2 resource.
//
#include "winres.h"

////////////////////////////////////
#undef APSTUDIO_READONLY_SYMBOLS

////////////////////////////////////
// English (U.S.) resources

#if !defined(AFX_RESOURCE_DLL) || defined(AFX_TARG_ENU)
#ifndef _WIN32
LANGUAGE LANG_ENGLISH, SUBLANG_ENGLISH_US
#pragma code_page(1252)
#endif // _WIN32

#ifdef APSTUDIO_INVOKED
////////////////////////////////////
//
// TEXTINCLUDE
//
1 TEXTINCLUDE DISCARDABLE
BEGIN
    "resource.h\0"
END

2 TEXTINCLUDE DISCARDABLE
BEGIN
    "#include \"\"winres.h\"\"\r\n"
    "\0"
END

3 TEXTINCLUDE DISCARDABLE
BEGIN
    "1 TYPELIB \"\"tpcc_com_remote.tlb\"\"\r\n"
    "\0"
END

#endif // APSTUDIO_INVOKED

#ifdef _MAC
////////////////////////////////////
//
// Version
//

```

```

VS_VERSION_INFO VERSIONINFO
FILEVERSION 1,0,0,1
PRODUCTVERSION 1,0,0,1
FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
FILEFLAGS 0x1L
#else
FILEFLAGS 0x0L
#endif
FILEOS 0x4L
FILETYPE 0x2L
FILESUBTYPE 0x0L
BEGIN
    BLOCK "StringFileInfo"
    BEGIN
        BLOCK "040904B0"
        BEGIN
            VALUE "CompanyName", ""0"
            VALUE "FileDescription", "tpcc_com_remote Module\0"
            VALUE "FileVersion", "1, 0, 0, 1\0"
            VALUE "InternalName", "TPCCNEWORDER\0"
            VALUE "LegalCopyright", "Copyright 1997\0"
            VALUE "OriginalFilename", "tpcc_com_remote.DLL\0"
            VALUE "ProductName", "tpcc_com_remote Module\0"
            VALUE "ProductVersion", "1, 0, 0, 1\0"
            VALUE "OLESelfRegister", ""0"
        END
    END
    BLOCK "VarFileInfo"
    BEGIN
        VALUE "Translation", 0x409, 1200
    END
END

#ifdef ! _MAC

////////////////////////////////////
//
// REGISTRY
//

IDR_TPCCrem          REGISTRY DISCARDABLE  "tpcc_com_remote.rgs"

////////////////////////////////////
//
// String Table
//

STRINGTABLE DISCARDABLE
BEGIN
    IDS_PROJNAME      "tpcc_com_remote"
END

#endif // English (U.S.) resources
////////////////////////////////////

#ifdef APSTUDIO_INVOKED
////////////////////////////////////
//
// Generated from the TEXTINCLUDE 3 resource.
//
1 TYPELIB "tpcc_com_remote.tlb"

////////////////////////////////////
#endif // not APSTUDIO_INVOKED

tpcc_com_remote. rgs

HKCR
{
    TPCC.AllRemoteTxns.1 = s 'All RemoteTxns Class'
    {
        CLSID = s '{63EC25AB-828A-4ed7-8C6C-B46D29889594}'
    }
}

```

```

    }
    TPCC.AllRemoteTxns = s 'TPCC Remote Class'
    {
        CurVer = s 'TPCC.AllRemoteTxns.1'
    }
    NoRemove CLSID
    {
        ForceRemove {63EC25AB-828A-4ed7-8C6C-B46D29889594} =
s 'TPCC Remote Class'
        {
            ProgID = s 'TPCC.AllRemoteTxns.1'
            VersionIndependentProgID = s
'TPCC.AllRemoteTxns'
            InprocServer32 = s '%MODULE%'
            {
                val ThreadingModel = s 'Both'
            }
        }
    }
}

```

tpcc_com_remote_Methods.h

```

/*      FILE:                METHODS.H
*                                     Microsoft TPC-C Kit Ver. 4.20.000
*                                     Copyright Microsoft, 1999
*
*      All Rights Reserved
*
*                                     not yet audited
*
*      PURPOSE:  Header file for COM components.
*
*      Change history:
*      4.20.000 - first version
*/

enum COMPONENT_ERROR
{
    ERR_MISSING_REGISTRY_ENTRIES = 1,
    ERR_LOADDLL_FAILED,
    ERR_GETPROCADDR_FAILED,
    ERR_UNKNOWN_DB_PROTOCOL
};

class CCOMPONENT_ERR : public CBaseErr
{
public:
    CCOMPONENT_ERR(COMPONENT_ERROR Err)
    {
        m_Error = Err;
        m_szTextDetail = NULL;
        m_SystemErr = 0;
        m_szErrorText = NULL;
    };

    CCOMPONENT_ERR(COMPONENT_ERROR Err, char
*szTextDetail, DWORD dwSystemErr)
    {
        m_Error = Err;
        m_szTextDetail = new char[strlen(szTextDetail)+1];
        strcpy( m_szTextDetail, szTextDetail );
        m_SystemErr = dwSystemErr;
        m_szErrorText = NULL;
    };

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

    COMPONENT_ERROR m_Error;
};

```

```

char                                     *m_szTextDetail;
char                                     *m_szErrorText;
DWORD                                   m_SystemErr;

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

};

static void WriteMessageToEventLog(LPTSTR lpszMsg);

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

    CTPCC_Common_Remote();
    ~CTPCC_Common_Remote();

// ITPCCrem
public:
    HRESULT __stdcall NewOrder(          VARIANT txn_in,
    VARIANT* txn_out);
    HRESULT __stdcall Payment(          VARIANT txn_in,
    VARIANT* txn_out);
    HRESULT __stdcall Delivery(          VARIANT txn_in) {return
E_NOTIMPL;};
    HRESULT __stdcall StockLevel(    VARIANT txn_in, VARIANT*
txn_out);
    HRESULT __stdcall OrderStatus(    VARIANT txn_in, VARIANT*
txn_out);

    HRESULT __stdcall CallSetComplete();

// IObjectControl
    STDMETHODCALLTYPE CanBePooled() { return m_bCanBePooled; }
    STDMETHODCALLTYPE Activate() { return S_OK; }    // we don't support COM
Services transactions (no enlistment)
    STDMETHODCALLTYPE Deactivate() { /* nothing to do */ }

// IObjectConstruct
    STDMETHODCALLTYPE Construct(IDispatch * pUnk);

// helper methods
private:
    BOOL                m_bCanBePooled;
    CTPCC_BASE          *m_pTxn;

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

};

////////////////////////////////////
// CTPCC

```

```

class CTPCCrem :
public CTPCC_Common_Remote,
public CComCoClass<CTPCCrem, &CLSID_TPCCrem>
{
public:
    DECLARE_REGISTRY_RESOURCEID(IDR_TPCCrem)

    BEGIN_COM_MAP(CTPCCrem)
        COM_INTERFACE_ENTRY2(IUnknown, CComObjectRootEx)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common_Remote)
    END_COM_MAP()

};

```

tpcc_com_remote_ps.def

```

LIBRARY    "tpcc_com_remote_ps"

DESCRIPTION 'Proxy/Stub DLL'

EXPORTS
    DllGetClassObject      @1      PRIVATE
    DllCanUnloadNow        @2      PRIVATE
    GetProxyDllInfo        @3      PRIVATE
    DllRegisterServer       @4      PRIVATE
    DllUnregisterServer     @5      PRIVATE

```

tpcc_com_remote_ps.idl

```

/*      FILE:          ITPCC.IDL
*
*      Microsoft TPC-C Kit Ver. 4.20.000
*      Copyright Microsoft, 1999
*
*      All Rights Reserved
*
*      not yet audited
*
*      PURPOSE:  Defines the interface used by TPCC. This interface can be
implemented by C++ components.
*
*      Change history:
*          4.20.000 - first version
*/

// Forward declare all types defined
interface ITPCCrem;
import "oidl.idl";
import "ocidl.idl";

[
    object,
    oleautomation,
    uuid(4899AD2E-D521-4d59-824A-4381438FD840),
    helpstring("ITPCC Interface"),
    pointer_default(unique)
]
interface ITPCCrem : IUnknown
{
    HRESULT __stdcall NewOrder(
        VARIANT txn_in,
        VARIANT* txn_out
    );

    HRESULT __stdcall Payment(
        VARIANT txn_in,
        VARIANT* txn_out
    );

```

```

HRESULT _stdcall Delivery
(
    [in]
    VARIANT txn_in
);

HRESULT _stdcall StockLevel
(
    [in]
    VARIANT txn_in,
    VARIANT *txn_out
);

HRESULT _stdcall OrderStatus
(
    [in]
    VARIANT txn_in,
    VARIANT *txn_out
);

HRESULT _stdcall CallSetComplete
(
    );

}; // interface ITPCC

```

tpcc_com_remote_resource.h

```

//{ {NO_DEPENDENCIES}}
// Microsoft Developer Studio generated include file.
// Used by tpcc_com_remote.rc
//
#define IDS_PROJNAME 100
#define IDR_TPCCrem 101

// Next default values for new objects
//
#ifndef APSTUDIO_INVOKED
#ifndef APSTUDIO_READONLY_SYMBOLS
#define _APS_NEXT_RESOURCE_VALUE 202
#define _APS_NEXT_COMMAND_VALUE 32768
#define _APS_NEXT_CONTROL_VALUE 201
#define _APS_NEXT_SYMED_VALUE 102
#endif
#endif

```

tpcc_com_sl.rgs

```

HKCR
{
    TPCC.StockLevel.1 = s 'StockLevel Class'
    {
        CLSID = s '{2668369E-A50D-11D2-BA4E-00C04FBFE08B}'
    }
    TPCC.StockLevel = s 'StockLevel Class'
    {
        CurVer = s 'TPCC.StockLevel.1'
    }
    NoRemove CLSID
    {
        ForceRemove {2668369E-A50D-11D2-BA4E-00C04FBFE08B}
    }
    = s 'StockLevel Class'
    {
        ProgID = s 'TPCC.StockLevel.1'
        VersionIndependentProgID = s 'TPCC.StockLevel'
        InprocServer32 = s '%MODULE%'
        {
            val ThreadingModel = s 'Both'
        }
    }
}

```

```

}

tpcc_odbc_db2.cpp

/*      FILE:      TPCC_ODBC.CPP
 *      Microsoft TPC-C Kit Ver. 4.20.000
 *      Copyright Microsoft, 1999
 *
 *      All Rights Reserved
 *
 *      Version 4.10.000 audited by Richard
Gimarc, Performance Metrics, 3/17/99
 *
 *      PURPOSE:  Implements ODBC calls for DB2 for TPC-C txns.
 *      Contact:   Charles Levine (clevine@microsoft.com)
 *
 *      Change history:
 *      4.20.000 - updated rev number to match kit
 *      4.10.001 - not deleting error class in catch handler on deadlock
retry;
leak
*/

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

#include <stdlib.h> // db2

#include <assert.h>
#include <time.h>

#define DBNTWIN32
#define DB2NT
#include <sql.h>

#include <sqlcli.h>
#include <sqlcli1.h>

#define DB2OUT "C:\\TMP\\" //db2
#include "sqlenv.h" //db2
#include "lval.h" //db2
#include "sqlca.h" //db2

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

// need to declare functions for export
#define DllDecl __declspec( dllexport )
//since we don't include <sqltypes.h> above we need to define __SQLTYPES
//to stop redefining timestamp struct in trans.h
#define __SQLTYPES

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

#include "tpcc_odbc_db2.h"

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

const iMaxRetries = 10; // how many retries on deadlock

const int iErrOleDbProvider = 7312;
const char sErrTimeoutExpired[] = "Timeout expired";

static SQLHENV henv = SQL_NULL_HENV; //
ODBC environment handle
static char StockLevelSProcName[] = "RPCTPCC.DLL\\stks";
static char OrderStatusSProcName[] = "RPCTPCC.DLL\\ords";
static char DeliverySProcName[] = "RPCTPCC.DLL\\dels";
static char PaymentSProcName[] = "RPCTPCC.DLL\\pays";
static char NewOrderSProcName[] = "RPCTPCC.DLL\\news";

```

```

BOOL APIENTRY DllMain(HMODULE hModule, DWORD ul_reason_for_call, LPVOID
lpReserved)
{
    switch( ul_reason_for_call )
    {
        case DLL_PROCESS_ATTACH:
            DisableThreadLibraryCalls(hModule);
            if ( SQLAllocHandleStd(SQL_HANDLE_ENV,
SQL_NULL_HANDLE, &henv) != SQL_SUCCESS )
                return FALSE;
            break;

        case DLL_PROCESS_DETACH:
            if (henv != NULL)
                SQLFreeEnv(henv);
            break;

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

/* FUNCTION: CTPCC_DB2_ERR::ErrorText
*
*/

char* CTPCC_DB2_ERR::ErrorText(void)
{
    int i;

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

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

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

// wrapper routine for class constructor
__declspec(dllexport) CTPCC_ODBC_DB2* CTPCC_ODBC_DB2_new(
    LPCSTR szServer,          // name of SQL server
    LPCSTR szUser,            // user name for login
    LPCSTR szPassword,        // password for login
    LPCSTR szHost,            // not used
    LPCSTR szDatabase )      // name of database to use
{
    return new CTPCC_ODBC_DB2( szServer, szUser, szPassword, szHost,
szDatabase );
}

CTPCC_ODBC_DB2::~CTPCC_ODBC_DB2 (
    LPCSTR szServer,          // name of
SQL server

```

```

        LPCSTR szUser,          //
user name for login
        LPCSTR szPassword,      // password
for login
        LPCSTR szHost,          //
not used
        LPCSTR szDatabase      // name of
database to use
    {
        RETCODE                rc;

        // initialization
        m_hdbc = SQL_NULL_HDBC;
        m_hstmt = SQL_NULL_HSTMT;

        m_hstmtNewOrder = SQL_NULL_HSTMT;
        m_hstmtPayment = SQL_NULL_HSTMT;
        m_hstmtDelivery = SQL_NULL_HSTMT;
        m_hstmtOrderStatus = SQL_NULL_HSTMT;
        m_hstmtStockLevel = SQL_NULL_HSTMT;

        m_retMsg[0] = 0;

        if( SQLAllocEnv(&henv)!= SQL_SUCCESS)
            ThrowError(CDB2ERR::eAllocHandle);

        if( SQLAllocConnect(henv, &m_hdbc)!= SQL_SUCCESS)
            ThrowError(CDB2ERR::eConnOption);

        //
        // Set AUTOCOMMIT OFF
        //
        if( SQLSetConnectOption(m_hdbc, SQL_AUTOCOMMIT,
SQL_AUTOCOMMIT_OFF)!= SQL_SUCCESS)
            ThrowError(CDB2ERR::eConnOption);

        //
        // set isolation
        //
        if ( SQLSetConnectAttr(m_hdbc, SQL_ATTR_TXN_ISOLATION,
(SQLPOINTER)SQL_TXN_SERIALIZABLE, 0) != SQL_SUCCESS )
            ThrowError(CDB2ERR::eConnOption);

        //
        // Connect to db
        //
        {
            char                szConnectStr[256];
            char                szOutStr[1024];
            SQLSMALLINT         iOutStrLen;

            sprintf( szConnectStr, "UID=%s;PWD=%s;DSN=%s", szUser,
szPassword, szDatabase );

            rc = SQLDriverConnect(m_hdbc, NULL,
(SQLCHAR*)szConnectStr, sizeof(szConnectStr),
(SQLCHAR*)szOutStr, sizeof(szOutStr),
&iOutStrLen, SQL_DRIVER_NOPROMPT );
            if (rc != SQL_SUCCESS && rc !=
SQL_SUCCESS_WITH_INFO)
                ThrowError(CDB2ERR::eConnect);

            if ( SQLSetConnectOption(m_hdbc, SQL_CURSOR_HOLD,
SQL_CURSOR_HOLD_OFF) != SQL_SUCCESS)
                ThrowError(CDB2ERR::eConnOption);
        }

        // Initialize each of the transactions
        InitNewOrderParams();
        InitPaymentParams();
        InitOrderStatusParams();
        InitDeliveryParams();
        InitStockLevelParams();
    }
}

CTPCC_ODBC_DB2::~~CTPCC_ODBC_DB2( void )
{

```

```

// note: descriptors are automatically released when the connection is dropped
SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtNewOrder);
SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtPayment);
SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtDelivery);
SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtOrderStatus);
SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtStockLevel);

SQLDisconnect(m_hdbc);
SQLFreeHandle(SQL_HANDLE_DBC,m_hdbc);
}

void CTPCC_ODBC_DB2::ThrowError( CDB2ERR::ACTION eAction )
{
    RETCODE          rc;
    SDWORD            lNativeError;
    char              szState[6];
    char              szMsg[SQL_MAX_MESSAGE_LENGTH];
    char              szTmp[6*SQL_MAX_MESSAGE_LENGTH];
    CDB2ERR  *pODBCErr; // not allocated
until needed (maybe never)

    pODBCErr = new CDB2ERR();

    pODBCErr->m_NativeError = 0;
    pODBCErr->m_eAction = eAction;
    pODBCErr->m_bDeadLock = FALSE;

    szTmp[0] = 0;
    while (TRUE)
    {
        rc = SQLError(henv, m_hdbc, m_hstmt, (BYTE *)&szState,
&lNativeError,                                     (BYTE *)&szMsg,
sizeof(szMsg), NULL);
        if (rc == SQL_NO_DATA)
            break;

        // check for deadlock
        if (lNativeError == 1205 || (lNativeError == iErrOleDbProvider
&&
                strstr(szMsg, sErrTimeoutExpired) != NULL))
            pODBCErr->m_bDeadLock = TRUE;

        // capture the (first) database error
        if (pODBCErr->m_NativeError == 0 && lNativeError != 0)
            pODBCErr->m_NativeError = lNativeError;

        // quit if there isn't enough room to concatenate error text
        if ( (strlen(szMsg) + 2) > (sizeof(szTmp) - strlen(szTmp)))
            break;

        // include line break after first error msg
        if (szTmp[0] != 0)
            strcat( szTmp, "\n");
        strcat( szTmp, szMsg );
    }

    if (pODBCErr->m_odbcerrstr != NULL)
    {
        delete [] pODBCErr->m_odbcerrstr;
        pODBCErr->m_odbcerrstr = NULL;
    }

    if (strlen(szTmp) > 0)
    {
        pODBCErr->m_odbcerrstr = new char[ strlen(szTmp)+1 ];
        strcpy( pODBCErr->m_odbcerrstr, szTmp );
    }
    else if (strlen(m_retMsg) > 0)
    {
        pODBCErr->m_odbcerrstr = new char[ strlen(m_retMsg)+1 ];
        strcpy( pODBCErr->m_odbcerrstr, m_retMsg );
    }

    SQLFreeStmt(m_hstmt,SQL_CLOSE);
    throw pODBCErr;
}

}

void CTPCC_ODBC_DB2::InitStockLevelParams()
{
    if ( SQLAllocHandle(SQL_HANDLE_STMT,m_hdbc,
&m_hstmtStockLevel) != SQL_SUCCESS )
        ThrowError(CDB2ERR::eAllocHandle);

    m_hstmt = m_hstmtStockLevel;
}

void CTPCC_ODBC_DB2::StockLevel()
{
    int              iTryCount = 0;
    RETCODE          rc;

    m_hstmt = m_hstmtStockLevel;

    // copy data from p_txn to the structures that the DB2 stored procedures need

    m_db2_dataIN.db2StockLevel.s_W_ID = m_txn.StockLevel.w_id;
    m_db2_dataIN.db2StockLevel.s_D_ID = m_txn.StockLevel.d_id;
    m_db2_dataIN.db2StockLevel.s_threshold = m_txn.StockLevel.threshold;

/*
#ifdef ACID_TEST
    m_db2_dataIN.db2StockLevel.s_ACID = m_txn.StockLevel.?
#endif
*/

    while (TRUE)
    {
        try
        {
            //
            // Call the stored proc
            //
            // set the appropriate connection
            //
            if ( SQLSetConnection(m_hdbc) != SQL_SUCCESS)
                ThrowError(CDB2ERR::eSetConn);

        {
            struct sqllda in_sqllda;
            struct sqllda out_sqllda;
            struct sqlca sqlca;

            in_sqllda.sqln = 1;
            in_sqllda.sqld = 1;
            in_sqllda.sqlvar[0].sqltype = SQL_TYP_CHAR;
            in_sqllda.sqlvar[0].sqldata = (char
*)&m_db2_dataIN.db2StockLevel;
            in_sqllda.sqlvar[0].sqllen =
sizeof(m_db2_dataIN.db2StockLevel);
            in_sqllda.sqlvar[0].sqlind = NULL;

            out_sqllda.sqln = 1;
            out_sqllda.sqld = 1;
            out_sqllda.sqlvar[0].sqltype = SQL_TYP_CHAR;
            out_sqllda.sqlvar[0].sqldata = (char
*)&m_db2_dataOUT.db2StockLevel;
            out_sqllda.sqlvar[0].sqllen =
sizeof(m_db2_dataOUT.db2StockLevel);
            out_sqllda.sqlvar[0].sqlind = NULL;

            rc = sqleproc(StockLevelSPProcName, NULL,
&in_sqllda, &out_sqllda, &sqlca);

            if (sqlca.sqlcode)
            {
                char buff[512] = "";

                rc = sqlainp(buff, 512, 78, &sqlca);
                sprintf(m_retMsg, "STOCKLEV dari
failed with sqlcode = %ld %s", sqlca.sqlcode, buff);
                ThrowError(CDB2ERR::eSQLEproc);
            }
        }
    }
}

```

<pre> m_txn.StockLevel.exec_status_code = eOK; // copy the data from the output structure back into the transaction switch(m_db2_dataOUT.db2StockLevel.s_transtatus) { case INVALID_ITEM: m_txn.StockLevel.exec_status_code = eInvalidItem; break; case TRAN_OK: m_txn.StockLevel.exec_status_code = eOK; break; case FATAL_SQLERROR: m_txn.StockLevel.exec_status_code = eDeliveryFailed; break; case DEADLOCK: m_txn.StockLevel.exec_status_code = eDeliveryFailed; break; default: m_txn.StockLevel.exec_status_code = eDeliveryFailed; } m_txn.StockLevel.low_stock = m_db2_dataOUT.db2StockLevel.s_low_stock; break; } catch (CDB2ERR *e) { if ((!e->m_bDeadLock) (++iTryCount > iMaxRetries)) throw; // hit deadlock; backoff for increasingly longer period delete e; Sleep(10 * iTryCount); } } if (iTryCount) throw new CTPCC_DB2_ERR(CTPCC_DB2_ERR::ERR_RETRIED_TRANS, iTryCount); } void CTPCC_ODBC_DB2::InitNewOrderParams() { if (SQLAllocHandle(SQL_HANDLE_STMT,m_hdbc, &m_hstmtNewOrder) != SQL_SUCCESS) ThrowError(CDB2ERR::eAllocHandle); m_hstmt = m_hstmtNewOrder; } void CTPCC_ODBC_DB2::NewOrder(BOOL fLocalFlag) { int RETCODE int i; rc; iTryCount = 0; // 0 1 2 // 012345678901234567890123456789 wchar_t tpcc_neworder("?,?,?,?,?", szSqlTemplate[] = L" {call L"?,?,?,?,?,?,?,?,?,?,?,?,?", L"?,?,?,?,?,?,?,?,?,?,?,?,?", </pre>	<pre> L"?,?,?,?,?,?,?,?,?,?,?,?,?,?)"; m_hstmt = m_hstmtNewOrder; // not sure this part is neccessary anymore... // clip statement buffer based on number of parameters // fixed part is 29 chars and variable part is 6 chars per line item i = 29 + m_txn.NewOrder.o_ol_cnt*6; wcsncpy(&szSqlTemplate[i], L"")); // check whether any order lines are for a remote warehouse m_txn.NewOrder.o_all_local = 1; for (i = 0; i < m_txn.NewOrder.o_ol_cnt; i++) { if (m_txn.NewOrder.OL_IN[i].ol_supply_w_id!= m_txn.NewOrder.w_id) { m_txn.NewOrder.o_all_local = 0; // at least one remote warehouse break; } } m_txn.NewOrder.s_O_ENTRY_D_time = TPCC_GetTime(); // copy the date to the txn to return ConvertTime(&m_txn.NewOrder.o_entry_d, m_txn.NewOrder.s_O_ENTRY_D_time); while (TRUE) { try { m_BindOffset = 0; if (SQLSetConnection(m_hdbc)!= SQL_SUCCESS) ThrowError(CDB2ERR::eSetConn); { struct sqllda in_sqllda; struct sqllda out_sqllda; struct sqlca sqlca; in_sqllda.sqln = 1; in_sqllda.sqld = 1; in_sqllda.sqlvar[0].sqltype = SQL_TYP_CHAR; in_sqllda.sqlvar[0].sqldata = (char *)&m_txn.NewOrder; in_sqllda.sqlvar[0].sqllen = sizeof(m_db2_dataIN.db2NewOrder); in_sqllda.sqlvar[0].sqlind = NULL; out_sqllda.sqln = 1; out_sqllda.sqld = 1; out_sqllda.sqlvar[0].sqltype = SQL_TYP_CHAR; out_sqllda.sqlvar[0].sqldata = (char *)&m_txn.NewOrder.OL_OUT; out_sqllda.sqlvar[0].sqllen = sizeof(m_db2_dataOUT.db2NewOrder); out_sqllda.sqlvar[0].sqlind = NULL; rc = sqleproc(NewOrderSProcName, NULL, &in_sqllda, &out_sqllda, &sqlca); if (sqlca.sqlcode) { char buf[512] = ""; rc = sqlaintp(buf, 512, 78, &sqlca); sprintf(m_retMsg, "STOCKLEV dari failed with sqlcode = %ld %s",sqlca.sqlcode, buf); ThrowError(CDB2ERR::eSQLEproc); } } } } </pre>
--	---

```

switch( m_txn.NewOrder.s_transtatus )
{
    case INVALID_ITEM:

m_txn.NewOrder.exec_status_code = eInvalidItem;
                                break;

    case TRAN_OK:

m_txn.NewOrder.exec_status_code = eOK;
                                break;

    case FATAL_SQLERROR:

m_txn.NewOrder.exec_status_code = eDeliveryFailed;
                                break;

    case DEADLOCK:

m_txn.NewOrder.exec_status_code = eDeliveryFailed;
                                break;

    default:

m_txn.NewOrder.exec_status_code = eDeliveryFailed;
    }

    if (eOK == m_txn.NewOrder.exec_status_code)
        m_txn.NewOrder.o_commit_flag = 1;
    else
        m_txn.NewOrder.o_commit_flag = 0;

    break;
}
catch (CDB2ERR *e)
{
    if ((!e->m_bDeadLock) || (++iTryCount >
                                iMaxRetries))
        throw;

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

// if (iTryCount)
// throw new
// CTPCC_DB2_ERR(CTPCC_DB2_ERR::ERR_RETRIED_TRANS, iTryCount);
}

void CTPCC_ODBC_DB2::InitPaymentParams()
{
    if ( SQLAllocHandle(SQL_HANDLE_STMT,m_hdbc, &m_hstmtPayment)
!= SQL_SUCCESS )
        ThrowError(CDB2ERR::eAllocHandle);

    m_hstmt = m_hstmtPayment;
}

void CTPCC_ODBC_DB2::Payment(BOOL fLocalFlag)
{
    int                                iTryCount = 0;
    RETCODE                            rc;

    m_hstmt = m_hstmtPayment;

    if (m_txn.Payment.in_c_id!= 0)
        m_txn.Payment.c_last[0] = 0;

    m_txn.Payment.h_date_time= TPCC_GetTime();
    // convert the date to the txn to return
    ConvertTime(&m_txn.Payment.h_date,m_txn.Payment.h_date_time);
}
/*

```

```

#ifdef ACID_TEST
    m_db2_dataIN.db2Payment.s_ACID = m_txn.Payment.?
#endif
*/

while (TRUE)
{
    try
    {
        if ( SQLSetConnection(m_hdbc)!= SQL_SUCCESS)
            ThrowError(CDB2ERR::eSetConn);

        {
            struct sqllda in_sqllda;
            struct sqllda out_sqllda;
            struct sqlca sqlca;

            in_sqllda.sqln = 1;
            in_sqllda.sqld = 1;
            in_sqllda.sqlvar[0].sqltype =

SQL_TYP_CHAR;

            in_sqllda.sqlvar[0].sqldata = (char
            *)&m_txn.Payment;

            in_sqllda.sqlvar[0].sqllen =
            sizeof(m_db2_dataIN.db2Payment);

            in_sqllda.sqlvar[0].sqlind = NULL;

            out_sqllda.sqln = 1;
            out_sqllda.sqld = 1;
            out_sqllda.sqlvar[0].sqltype =

SQL_TYP_CHAR;

            out_sqllda.sqlvar[0].sqldata = (char
            *)&m_txn.Payment.c_credit_lim;

            out_sqllda.sqlvar[0].sqllen =
            sizeof(m_db2_dataOUT.db2Payment);

            out_sqllda.sqlvar[0].sqlind = NULL;

            rc = sqleproc(PaymentSProcName,
            NULL, &in_sqllda, &out_sqllda, &sqlca);

            if (sqlca.sqlcode)
            {
                char buf[512] = "";

                rc = sqlaintp(buf, 512, 78,
                &sqlca);

                sprintf(m_retMsg,
                "STOCKLEV dari failed with sqlcode = %ld %s",sqlca.sqlcode, buf);

                ThrowError(CDB2ERR::eSQLEproc);
            }
        }

        switch( m_txn.Payment.s_transtatus )
        {
            case INVALID_ITEM:

m_txn.Payment.exec_status_code = eInvalidItem;
                                break;

            case TRAN_OK:

m_txn.Payment.exec_status_code = eOK;
                                break;

            case FATAL_SQLERROR:

m_txn.Payment.exec_status_code = eDeliveryFailed;
                                break;

            case DEADLOCK:

m_txn.Payment.exec_status_code = eDeliveryFailed;
                                break;

            default:

m_txn.Payment.exec_status_code = eDeliveryFailed;
                                break;
        }
    }
}

```

```

m_txn.Payment.exec_status_code = eDeliveryFailed;
    }

    ConvertTime(&m_txn.Payment.c_since,
m_txn.Payment.c_since_time);

    if (m_txn.Payment.c_id == 0)
        throw new CTPCC_DB2_ERR(
CTPCC_DB2_ERR::ERR_INVALID_CUST);
    /* else
        m_txn.Payment.exec_status_code =
eOK;
*/

        break;
    }
    catch (CDB2ERR *e)
    {
        if ((!e->m_bDeadLock) || (++iTryCount >
iMaxRetries))
            throw;

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

// if (iTryCount)
// throw new
CTPCC_DB2_ERR(CTPCC_DB2_ERR::ERR_RETRIED_TRANS, iTryCount);
}

void CTPCC_ODBC_DB2::InitOrderStatusParams()
{
    if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmtOrderStatus)
!= SQL_SUCCESS)
        ThrowError(CDB2ERR::eAllocHandle);

    m_hstmt = m_hstmtOrderStatus;
}

void CTPCC_ODBC_DB2::OrderStatus()
{
    int
iTryCount = 0;
    RETCODE
    int
    rc;
    int
    m_hstmt = m_hstmtOrderStatus;

    if (m_txn.OrderStatus.in_c_id != 0)
        m_txn.OrderStatus.in_c_last[0] = 0;

    while (TRUE)
    {
        try
        {
            if ( SQLSetConnection(m_hdbc) != SQL_SUCCESS)
                ThrowError(CDB2ERR::eSetConn);

            {
                struct sqllda in_sqllda;
                struct sqllda out_sqllda;
                struct sqlca sqlca;

                in_sqllda.sqln = 1;
                in_sqllda.sqld = 1;
                in_sqllda.sqlvar[0].sqltype =
SQL_TYP_CHAR;

                in_sqllda.sqlvar[0].sqldata = (char
*)&m_txn.OrderStatus;

                in_sqllda.sqlvar[0].sqln =
sizeof(m_db2_dataIN.db2OrderStatus);

                in_sqllda.sqlvar[0].sqlind = NULL;

                out_sqllda.sqln = 1;
                out_sqllda.sqld = 1;
                out_sqllda.sqlvar[0].sqltype =

                out_sqllda.sqlvar[0].sqldata = (char
*)&m_txn.OrderStatus.c_balance;

                out_sqllda.sqlvar[0].sqln =
sizeof(m_db2_dataOUT.db2OrderStatus);

                out_sqllda.sqlvar[0].sqlind = NULL;

                rc = sqlproc(OrderStatusSProcName,
NULL, &in_sqllda, &out_sqllda, &sqlca);

                if (sqlca.sqlcode)
                {
                    char buf[512] = "";

                    rc = sqlintp(buf, 512, 78,
&sqlca);

                    sprintf(m_retMsg,
"STOCKLEV dari failed with sqlcode = %ld %s", sqlca.sqlcode, buf);

                    ThrowError(CDB2ERR::eSQLEproc);
                }
            }

            // copy the data from the output structure back into
the transaction

            switch( m_txn.OrderStatus.s_transtatus )
            {
                case INVALID_ITEM:

                    m_txn.OrderStatus.exec_status_code = eInvalidItem;

                    break;

                case TRAN_OK:

                    m_txn.OrderStatus.exec_status_code = eOK;

                    break;

                case FATAL_SQLERROR:

                    m_txn.OrderStatus.exec_status_code = eDeliveryFailed;

                    break;

                case DEADLOCK:

                    m_txn.OrderStatus.exec_status_code = eDeliveryFailed;

                    break;

                default:

                    m_txn.OrderStatus.exec_status_code = eDeliveryFailed;

                    ConvertTime(&m_txn.OrderStatus.o_entry_d,
m_txn.OrderStatus.s_O_ENTRY_D_time);

                    for (i=0; i<MAX_OL_NEW_ORDER_ITEMS; i++)
                    {
                        ConvertTime(&m_txn.OrderStatus.ol_delivery_d[i],
m_txn.OrderStatus.OL[i].s_OL_DELIVERY_D_time);
                    }

                    if (m_txn.OrderStatus.o_ol_cnt == 0)
                        throw new CTPCC_DB2_ERR(
CTPCC_DB2_ERR::ERR_NO_SUCH_ORDER);
                    else if (m_txn.OrderStatus.c_id == 0 &&
m_txn.OrderStatus.c_last[0] == 0)
                        throw new CTPCC_DB2_ERR(
CTPCC_DB2_ERR::ERR_INVALID_CUST);
                    else
                        m_txn.OrderStatus.exec_status_code =
eOK;
            }
        }
    }
}

```

```

        break;
    }
    catch (CDB2ERR *e)
    {
        if ((!e->m_bDeadLock) || (++iTryCount >
iMaxRetries))
            throw;

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

// if (iTryCount)
// throw new
CTPCC_DB2_ERR(CTPCC_DB2_ERR::ERR_RETRIED_TRANS, iTryCount);
}

void CTPCC_ODBC_DB2::InitDeliveryParams()
{
    if ( SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmtDelivery)
!= SQL_SUCCESS )
        ThrowError(CDB2ERR::eAllocHandle);

    m_hstmt = m_hstmtDelivery;
}

void CTPCC_ODBC_DB2::Delivery()
{
    RETCODE rc;
    int iTryCount = 0;
    int i;

    m_hstmt = m_hstmtDelivery;

    // copy data from p_txn to the structures that the DB2 stored procedures need

    m_db2_dataIN.db2Delivery.s_W_ID = m_txn.Delivery.w_id;
    m_db2_dataIN.db2Delivery.s_O_CARRIER_ID = m_txn.Delivery.o_carrier_id;

/*
#ifdef ACID_TEST
    m_db2_dataIN.db2Delivery.s_ACID = m_txn.Delivery.s_ACID;
#endif
*/

    while (TRUE)
    {
        try
        {
            if ( SQLSetConnection(m_hdbc) != SQL_SUCCESS )
                ThrowError(CDB2ERR::eSetConn);

            {
                struct sqllda in_sqllda;
                struct sqllda out_sqllda;
                struct sqlca sqlca;

                in_sqllda.sqln = 1;
                in_sqllda.sqlld = 1;
                in_sqllda.sqlvar[0].sqltype =
SQL_TYP_CHAR;

                in_sqllda.sqlvar[0].sqldata = (char
*)&m_db2_dataIN.db2Delivery;

                in_sqllda.sqlvar[0].sqln =
sizeof(m_db2_dataIN.db2Delivery);

                out_sqllda.sqln = 1;
                out_sqllda.sqlld = 1;
                out_sqllda.sqlvar[0].sqltype =
SQL_TYP_CHAR;

                out_sqllda.sqlvar[0].sqldata = (char
*)&m_db2_dataOUT.db2Delivery;

                out_sqllda.sqlvar[0].sqln =
sizeof(m_db2_dataOUT.db2Delivery);

```

```

                out_sqllda.sqlvar[0].sqlind = NULL;

                rc = sqleproc(DeliverySProcName,
NULL, &in_sqllda, &out_sqllda, &sqlca);

                if (sqlca.sqlcode)
                {
                    char buff[512] = "";

                    rc = sqlaintp(buf, 512, 78,
&sqlca);

                    sprintf(m_retMsg,
"STOCKLEV dari failed with sqlcode = %ld %s", sqlca.sqlcode, buf);

                    ThrowError(CDB2ERR::eSQLEproc);
                }
            }

            m_txn.Delivery.exec_status_code = eOK;

            // copy the data from the output structure back into
the transaction

            switch( m_db2_dataOUT.db2Delivery.s_transtatus )
            {
                case INVALID_ITEM:

                    m_txn.Delivery.exec_status_code = eInvalidItem;

                    break;

                case TRAN_OK:

                    m_txn.Delivery.exec_status_code = eOK;

                    break;

                case FATAL_SQLERROR:

                    m_txn.Delivery.exec_status_code = eDeliveryFailed;

                    break;

                case DEADLOCK:

                    m_txn.Delivery.exec_status_code = eDeliveryFailed;

                    break;

                default:

                    m_txn.Delivery.exec_status_code = eDeliveryFailed;
            }

            for (i=0; i<10; i++)
            {
                m_txn.Delivery.o_id[i] =
m_db2_dataOUT.db2Delivery.s_O_ID[i];
            }

            break;
        }
        catch (CDB2ERR *e)
        {
            if ((!e->m_bDeadLock) || (++iTryCount >
iMaxRetries))
                throw;

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

    // if (iTryCount)
    // throw new
CTPCC_DB2_ERR(CTPCC_DB2_ERR::ERR_RETRIED_TRANS, iTryCount);
}

void CTPCC_ODBC_DB2::ConvertTime(TIMESTAMP_STRUCT *tsTime, __int64 iTime)
{

```

```

union
{
    __int64 i64Date;
    FILETIME ftDate;
} comboDate;

SYSTEMTIME sysTime;

comboDate.i64Date=iTime;

BOOL ret = FileTimeToSystemTime(&comboDate.ftDate,&sysTime);

tsTime->year = sysTime.wYear;
tsTime->month = sysTime.wMonth;
tsTime->day = sysTime.wDay;
tsTime->hour = sysTime.wHour;
tsTime->minute = sysTime.wMinute;
tsTime->second = sysTime.wSecond;
tsTime->fraction = sysTime.wMilliseconds/1000;

return;
}

__int64 CTPCC_ODBC_DB2::TPCC_GetTime(void)
{
    union
    {
        __int64 i64Date;
        FILETIME ftDate;
    } retValDate;

    SYSTEMTIME sysTime;

    GetLocalTime(&sysTime);

    SystemTimeToFileTime(&sysTime,&retValDate.ftDate );
    return retValDate.i64Date;
}

```

tpcc_odbc_db2.h

```

/*      FILE:      TPCC_ODBC_DB2.H
*
*      Microsoft TPC-C Kit Ver. 4.20.000
*      Copyright Microsoft, 1999
*
*      All Rights Reserved
*
*      Version 4.10.000 audited by Richard
Gimarc, Performance Metrics, 3/17/99
*
*      PURPOSE:  Header file for ODBC to DB2 TPC-C txn class implementation.
*
*      Change history:
*      4.20.000 - updated rev number to match kit
*/
#pragma once

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

// structure definitions for DB2 stored procedures

struct in_neword_struct {
    struct in_items_struct {
        long s_OL_I_ID; /* */
        long s_OL_SUPPLY_W_ID; /* */
        short s_OL_QUANTITY; /* */
    } in_item[15];
    long s_C_ID; /* */
    long s_W_ID; /* */
}

```

```

short s_D_ID; /* */
short s_O_OL_CNT; /* */
short s_all_local;
short duplicate_items; /* */
#ifdef DB2_TIME_STRING
char s_O_ENTRY_D[20];
#else
__int64 s_O_ENTRY_D_time;
#endif
#ifdef ACID_TEST
long s_ACID;
#endif
};

struct out_neword_struct {
    struct items_struct {
        char s_I_NAME[25];
        double s_I_PRICE;
        double s_OL_AMOUNT;
        short s_S_QUANTITY;
        char s_brand_generic;
    } item[15];
    char s_C_LAST[17];
    char s_C_CREDIT[3];
    double s_W_TAX;
    double s_D_TAX;
    double s_C_DISCOUNT;
    long s_O_ID;
    short s_O_OL_CNT;
    double s_total_amount;
    short s_transtatus;
    short deadlocks;
};

struct in_payment_struct {
    double s_H_AMOUNT; /* */
    long s_C_ID; /* */
    long s_W_ID; /* */
    short s_D_ID; /* */
    short s_C_D_ID; /* */
    long s_C_W_ID; /* */
#ifdef DB2_TIME_STRING
char s_H_DATE[20];
#else
__int64 s_H_DATE_time;
#endif
char s_C_LAST[17]; /* */
#ifdef ACID_TEST
long s_ACID;
#endif
};

struct out_payment_struct {
    double s_C_CREDIT_LIM;
    double s_C_DISCOUNT;
    double s_C_BALANCE;
    long s_C_ID;
    char s_W_STREET_1[21];
    char s_W_STREET_2[21];
    char s_W_CITY[21];
    char s_W_STATE[3];
    char s_W_ZIP[10];
    char s_D_STREET_1[21];
    char s_D_STREET_2[21];
    char s_D_CITY[21];
    char s_D_STATE[3];
    char s_D_ZIP[10];
    char s_C_FIRST[17];
    char s_C_MIDDLE[3];
    char s_C_LAST[17];
    char s_C_STREET_1[21];
    char s_C_STREET_2[21];
    char s_C_CITY[21];
    char s_C_STATE[3];
    char s_C_ZIP[10];
    char s_C_PHONE[17];
#ifdef DB2_TIME_STRING
char s_C_SINCE[20];

```

```

#else
__int64 s_C_SINCE_time;
#endif
char s_C_CREDIT[3];
char s_C_DATA[201];
short s_transtatus;
short deadlocks;
};

#define PAYMENT_COPY_SZ
(3*sizeof(double)+sizeof(long)+21+21+21+3+10+21+21+21+3+10+17+3+17+21+21+21+3
+10+17+sizeof(sqlint64)+3+201+2+2)

struct in_ordstat_struct {
long s_C_ID; /* */
long s_W_ID; /* */
short s_D_ID; /* */
char s_C_LAST[17]; /* */
#ifdef ACID_TEST
long s_ACID;
#endif
};

struct out_ordstat_struct {
double s_C_BALANCE;
long s_C_ID;
long s_O_ID;
short s_O_CARRIER_ID;
#ifdef DB2_TIME_STRING
char s_O_ENTRY_D[20];
#else
__int64 s_O_ENTRY_D_time;
#endif
short s_ol_cnt;
struct oitems_struct {
double s_OL_AMOUNT;
long s_OL_I_ID;
long s_OL_SUPPLY_W_ID;
short s_OL_QUANTITY;
#ifdef DB2_TIME_STRING
char s_OL_DELIVERY_D[20];
#else
__int64 s_OL_DELIVERY_D_time;
#endif
} item[15];
char s_C_FIRST[17];
char s_C_MIDDLE[3];
char s_C_LAST[17];
short s_transtatus;
short deadlocks;
};

struct in_delivery_struct {
long s_W_ID; /* */
short s_O_CARRIER_ID; /* */
#ifdef DB2_TIME_STRING
char s_O_DELIVERY_D[20];
#else
__int64 s_O_DELIVERY_D_time;
#endif
#ifdef ACID_TEST
long s_ACID;
#endif
};

struct out_delivery_struct {
short s_transtatus;
short deadlocks;
long s_O_ID[10];
};

struct in_stocklev_struct {
long s_W_ID; /* */
short s_D_ID; /* */
short s_threshold; /* */
#ifdef ACID_TEST
long s_ACID;
#endif
};
};

struct out_stocklev_struct {
short s_transtatus;
short deadlocks;
long s_low_stock;
};

#define INVALID_ITEM 100
#define TRAN_OK 0
#define DEADLOCK -911
#define FATAL_SQLERROR -1

// end structures definitions for DB2 stored procedures

class CDB2ERR : public CBaseErr
{
public:
enum ACTION
{
eNone,
eUnknown,
eAllocConn, // error from
SQLAllocConnect
eAllocHandle, // error from
SQLAllocHandle
eConnOption, // error from
SQLSetConnectOption
eConnect, // error from
SQLConnect
eAllocStmt, // error from
SQLAllocStmt
eExecDirect, // error from
SQLExecDirect
eBindParam, // error from
SQLBindParameter
eBindCol, // error from
SQLBindCol
eFetch, //
error from SQLFetch
eFetchScroll, // error from
SQLFetchScroll
eMoreResults, // error from
SQLMoreResults
ePrepare, // error from
SQLPrepare
eExecute, // error from
SQLExecute
eSetEnvAttr, // error from
SQLSetEnvAttr
eSetStmtAttr, // error from
SQLSetStmtAttr
eSetConn, // error from
SQLSetConnection
eSQLEproc // error from
SQLEproc call
};

CDB2ERR(void)
{
m_eAction = eNone;
m_NativeError = 0;
m_bDeadLock = FALSE;
m_odbcerrstr = NULL;
};

~CDB2ERR()
{
if (m_odbcerrstr != NULL)
delete [] m_odbcerrstr;
};

ACTION m_eAction;
int m_NativeError;
BOOL m_bDeadLock;
char *m_odbcerrstr;
};

```

```

        int ErrorType() {return ERR_TYPE_DB2;};
        int ErrorNum() {return m_NativeError;};
        char *ErrorText() {return m_odbcerrstr;};

};

class CTPCC_DB2_ERR : public CBaseErr
{
    public:
        enum TPCC_ODBC_ERRS
        {
            ERR_WRONG_SP_VERSION = 1, // "Wrong
version of stored procs on database server"
            ERR_INVALID_CUST, //
            "Invalid Customer id,name."
            ERR_NO_SUCH_ORDER,
            // "No orders found for customer."
            ERR_RETRIED_TRANS,
            // "Retries before transaction succeeded."
        };

        CTPCC_DB2_ERR( int iErr ) { m_erno = iErr; m_iTryCount = 0;
};

        CTPCC_DB2_ERR( int iErr, int iTryCount ) { m_erno = iErr;
m_iTryCount = iTryCount; };

        int                m_erno;
        int                m_iTryCount;

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

        char *ErrorText();

};

class DllDecl CTPCC_ODBC_DB2 : public CTPCC_BASE
{
    private:
        // declare variables and private functions here...

        char m_retMsg[512];

        BOOL                m_bDeadlock; //
transaction was selected as deadlock victim
        int                m_MaxRetries;
// retry count on deadlock

        SQLHENV            m_henv;
// ODBC environment handle
        SQLHDBC            m_hdbc;
        SQLHSTMT           m_hstmt; //
the current hstmt

        SQLHSTMT           m_hstmtNewOrder;
        SQLHSTMT           m_hstmtPayment;
        SQLHSTMT           m_hstmtDelivery;
        SQLHSTMT           m_hstmtOrderStatus;
        SQLHSTMT           m_hstmtStockLevel;

        // new-order specific fields
        SQLUIINTEGER        m_BindOffset;
        SQLUIINTEGER        m_RowsFetched;
        int                m_no_commit_flag;

        void ThrowError( CDB2ERR::ACTION eAction );

        void
CTPCC_ODBC_DB2::ConvertTime(TIMESTAMP_STRUCT*tsTime, __int64 iTime);
        __int64 CTPCC_ODBC_DB2::TPCC_GetTime(void);

        void InitNewOrderParams();
        void InitPaymentParams();
        void InitDeliveryParams();
        void InitStockLevelParams();
        void InitOrderStatusParams();

```

```

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

        union
        {
            struct in_neword_struct db2NewOrder;
            struct in_payment_struct db2Payment;
            struct in_delivery_struct db2Delivery;
            struct in_stocklev_struct db2StockLevel;
            struct in_ordstat_struct db2OrderStatus;
        }
        m_db2_dataIN;

        union
        {
            struct out_neword_struct db2NewOrder;
            struct out_payment_struct db2Payment;
            struct out_delivery_struct db2Delivery;
            struct out_stocklev_struct db2StockLevel;
            struct out_ordstat_struct db2OrderStatus;
        }
        m_db2_dataOUT;

    public:
        CTPCC_ODBC_DB2(LPCSTR szServer, LPCSTR szUser,
LPCSTR szPassword, LPCSTR szHost, LPCSTR szDatabase);
        ~CTPCC_ODBC_DB2(void);

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

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

};

// wrapper routine for class constructor
extern "C" DllDecl CTPCC_ODBC_DB2* CTPCC_ODBC_DB2_new
( LPCSTR szServer, LPCSTR szUser, LPCSTR szPassword, LPCSTR szHost,
LPCSTR szDatabase );

typedef CTPCC_ODBC_DB2* (TYPE_CTPCC_ODBC_DB2)(LPCSTR, LPCSTR,
LPCSTR, LPCSTR, LPCSTR);

```

trans.h

```

/*      FILE:      TRANS.H
*
*      Microsoft TPC-C Kit Ver. 4.20.000
*      Copyright Microsoft, 1999
*
*      All Rights Reserved
*
*      Version 4.10.000 audited by Richard
Gimarc, Performance Metrics, 3/17/99
*
*      PURPOSE:  Header file for TPC-C structure templates.
*

```

```

* Change history:
*           4.20.000 - updated rev number to match kit
*/
#pragma once

// String length constants
#define SERVER_NAME_LEN      20
#define DATABASE_NAME_LEN    20
#define USER_NAME_LEN        20
#define PASSWORD_LEN         20
#define TABLE_NAME_LEN     20
#define I_DATA_LEN           50
#define I_NAME_LEN           24
#define BRAND_LEN            1
#define LAST_NAME_LEN        16
#define W_NAME_LEN           10
#define ADDRESS_LEN          20
#define STATE_LEN            2
#define ZIP_LEN              9
#define S_DIST_LEN           24
#define S_DATA_LEN           50
#define D_NAME_LEN           10
#define FIRST_NAME_LEN       16
#define MIDDLE_NAME_LEN      2
#define PHONE_LEN            16
#define DATETIME_LEN         30
#define CREDIT_LEN           2
#define C_DATA_LEN           250
#define H_DATA_LEN           24
#define DIST_INFO_LEN        24
#define MAX_OL_NEW_ORDER_ITEMS 15
#define MAX_OL_ORDER_STATUS_ITEMS 15
#define STATUS_LEN           25
#define OL_DIST_INFO_LEN     24

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

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

// transaction structures
typedef struct
{
    long ol_i_id;
    long ol_supply_w_id;
    short ol_quantity;
} OL_IN_NEW_ORDER_DATA;

```

```

typedef struct
{
    char
ol_i_name[I_NAME_LEN+1];
    double ol_i_price;
    double ol_amount;
    short ol_stock;
    char
ol_brand_generic[BRAND_LEN+1];
} OL_OUT_NEW_ORDER_DATA;

typedef struct
{
    // input params
    OL_IN_NEW_ORDER_DATA OL_IN[MAX_OL_NEW_ORDER_ITEMS];
    long c_id;
    long w_id;
    short d_id;
    short o_ol_cnt;
    short o_all_local;
    short duplicate_items;
    __int64 s_O_ENTRY_D_time;

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

#define PAYINPUTSIZE
(sizeof(double)+(3*sizeof(long))+(2*sizeof(short))+sizeof(__int64)+LAST_NAME_LEN+1
)
typedef struct
{
    // input params
    double h_amount;
    long in_c_id;
    long w_id;
    short d_id;
    short c_d_id;
    long c_w_id;
    __int64 h_date_time;
    char c_last[LAST_NAME_LEN+1];

    EXEC_STATUS exec_status_code;
    TIMESTAMP_STRUCT h_date;
    TIMESTAMP_STRUCT c_since;
    // output params
    double c_credit_lim;
    double c_discount;
    double c_balance;
    long c_id;
    char w_street_1[ADDRESS_LEN+1];
    char w_street_2[ADDRESS_LEN+1];
    char w_city[ADDRESS_LEN+1];
    char w_state[STATE_LEN+1];
    char w_zip[ZIP_LEN+1];
    char d_street_1[ADDRESS_LEN+1];
    char d_street_2[ADDRESS_LEN+1];
    char d_city[ADDRESS_LEN+1];
    char d_state[STATE_LEN+1];
    char d_zip[ZIP_LEN+1];
    char c_first[FIRST_NAME_LEN+1];
    char c_middle[MIDDLE_NAME_LEN+1];
    char
out_c_last[LAST_NAME_LEN+1];
}

```

```

char          c_street_1[ADDRESS_LEN+1];
char          c_street_2[ADDRESS_LEN+1];
char          c_city[ADDRESS_LEN+1];
char          c_state[STATE_LEN+1];
char          c_zip[ZIP_LEN+1];
char          c_phone[PHONE_LEN+1];
__int64       c_since_time;
char          c_credit[CREDIT_LEN+1];
char          c_data[200+1];
short         s_transtatus;
short         deadlocks;

} PAYMENT_DATA, *PPAYMENT_DATA;

typedef struct
{
    double     ol_amount;
    long       ol_i_id;
    long       ol_supply_w_id;
    short      ol_quantity;
    __int64    s_OL_DELIVERY_D_time;
} OL_ORDER_STATUS_DATA;

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

    // output params
    TIMESTAMP_STRUCT
    ol_delivery_d[MAX_OL_ORDER_STATUS_ITEMS];
    TIMESTAMP_STRUCT o_entry_d;
    EXEC_STATUS    exec_status_code;
    double         c_balance;
    long           c_id;
    long           o_id;
    short          o_carrier_id;
    __int64        s_O_ENTRY_D_time;
    short          o_ol_cnt;
    OL_ORDER_STATUS_DATA OL[MAX_OL_ORDER_STATUS_ITEMS];
    char           c_first[FIRST_NAME_LEN+1];
    char           c_middle[MIDDLE_NAME_LEN+1];
    char           c_last[LAST_NAME_LEN+1];
    short          s_transtatus;
    short          deadlocks;

} ORDER_STATUS_DATA, *PORDER_STATUS_DATA;

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

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

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

typedef struct
{
    // input params
    long       w_id;
    short      d_id;
    short      threshold;

```

```

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

txn_base.h

/*      FILE:      TXN_BASE.H
 *      Microsoft TPC-C Kit Ver. 4.20.000
 *      Copyright Microsoft, 1999
 *      All Rights Reserved
 *      Version 4.10.000 audited by Richard
Gimarc, Performance Metrics, 3/17/99
 *      PURPOSE: Header file for TPC-C txn class implementation.
 *      Change history:
 *      4.20.000 - updated rev number to match kit
 */

#pragma once

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

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

    virtual PNEW_ORDER_DATA
    BuffAddr_NewOrder() = 0;
    virtual PPAYMENT_DATA
    BuffAddr_Payment() = 0;
    virtual PDELIVERY_DATA
    BuffAddr_Delivery() = 0;
    virtual PSTOCK_LEVEL_DATA    BuffAddr_StockLevel() =
0;
    virtual PORDER_STATUS_DATA  BuffAddr_OrderStatus() =
0;
    // virtual void NewOrder() = 0;
    // virtual void NewOrder (BOOL fLocal) = 0;
    // virtual void Payment (BOOL fLocal) = 0;
    // virtual void Delivery (BOOL fLocal) = 0;
    // virtual void StockLevel (BOOL fLocal) = 0;
    // virtual void OrderStatus (BOOL fLocal) = 0;
};

txnlog.h

/*      FILE:      TXNLOG.H
 *      Microsoft TPC-C Kit Ver. 4.10.000
 *      NOTE: this file is RTE specific and
should not be included
 *      in Full Disclosure Reports.
 *      Copyright Microsoft, 1999
 *      PURPOSE: Structure definitions for logging deliverytxn completion stats.
 *      Contact: Charles Levine (clevine@microsoft.com)
 */

typedef struct _TXN_NEWORDER
{

```

```

BYTE OL_Count; //range 0 to 31
BYTE OL_Remote_Count; //range 0 to 31
WORD c_id;
int o_id;
} TXN_NEWORDER;

typedef struct _TXN_PAYMENT
{
    BYTE CustByName;
    BYTE IsRemote;
} TXN_PAYMENT;

typedef struct _TXN_ORDERSTATUS
{
    BYTE CustByName;
} TXN_ORDERSTATUS;

typedef union _TXN_DETAILS
{
    TXN_NEWORDER NewOrder;
    TXN_PAYMENT Payment;
    TXN_ORDERSTATUS OrderStatus;
} TXN_DETAILS;

// Common header for all records in txn log. The TxnType field is
// a switch which identifies the particular variant.
#define TXN_REC_TYPE_CONTROL 1 //
#define TXN_REC_TYPE_TPCC 2 //
replaces TRANSACTION_TYPE_TPCC
#define TXN_REC_TYPE_TPCC_DELIV_DEF 3

typedef struct _TXN_RECORD_HEADER
{
    JULIAN_TIME TxnStartT0; // start of txn
    BYTE TxnType; // one of
    BYTE TxnSubType; //
depends on TxnType
} TXN_RECORD_HEADER, *PTXN_RECORD_HEADER;

typedef struct _TXN_RECORD_CONTROL
{
    // common header; must exactly match
    TXN_RECORD_HEADER
    TXN_REC_TYPE_CONTROL
    BYTE TxnSubType; //
depends on TxnType
// end of common header
    DWORD Len; //
number of bytes after this field
} TXN_RECORD_CONTROL, *PTXN_RECORD_CONTROL;

// TPC-C Txn Record Layout:
//
//TxnStartT0 is a Julian timestamp corresponding to the moment the
//txn is sent to the SUT, i.e., beginning of response time. Deltas
//are in milliseconds. Note that if RTDelay > 0, then the txn was
//delayed by this amount. The delay occurs at the beginning of the
//response time. So if RTDelay > 0, then the txn was actually sent
//at TxnStartT0 + RTDelay.
//
//Graphically:
//
// time -->
//
// |--- Menu ---|--- Keying ---|--- Response ---|--- Think ---|
// <-- DeltaT1 --> <-- DeltaT2 --> <-- DeltaT4 --> <-- DeltaT3 -->
// ^
// ^ TxnStartT0
//
//RTDelay is the amount of response time delay included in DeltaT4.

//RTDelay is recorded per txn because this value can be changed on
//the fly, and so may vary from txn to txn.
//
//TxnStatus is the txn completion code. It is used to indicate errors.
//For example, in the New Order txn, 1% of txns abort. TxnStatus will
//reflect this.

typedef struct _TXN_RECORD_TPCC
{
    // common header; must exactly match
    TXN_RECORD_HEADER
    JULIAN_TIME TxnStartT0; // start of txn
    BYTE TxnType; // =
    TXN_REC_TYPE_TPCC
    BYTE TxnSubType; //
depends on TxnType
// end of common header
    int DeltaT1; // menu time (ms)
    int DeltaT2; // keying time (ms)
    int DeltaT3; // think time (ms)
    int DeltaT4; // response time (ms)
    int RTDelay; // response time delay (ms)
    int TxnError; // error code
    providing more detail for TxnStatus
    int w_id; //
warehouse ID
    BYTE d_id; // assigned
    BYTE d_id_ThisTxn; // district ID chosen for this
particular
    BYTE TxnStatus; // completion status for txn
to indicate errors
    BYTE reserved; // for word alignment
    TXN_DETAILS TxnDetails; //
} TXN_RECORD_TPCC, *PTXN_RECORD_TPCC;

// TPC-C Deferred Delivery Txn Record Layout:
//
//Incorporating delivery transaction information into the above
//structure would increase the size of TXN_DETAILS from 8 to 42 bytes.
//Hence, we store delivery transaction details in a separate structure.
//
typedef struct _TXN_RECORD_TPCC_DELIV_DEF
{
    // common header; must exactly match
    TXN_RECORD_HEADER
    JULIAN_TIME TxnStartT0; // start of txn
    BYTE TxnType; // =
    TXN_REC_TYPE_TPCC_DELIV_DEF
    BYTE TxnSubType; //
= 0
// end of common header
    int DeltaT4; // response time (ms)
    int DeltaTxnExec; // execution
time (ms)
    int w_id; //
warehouse ID
    BYTE TxnStatus; // completion status for txn
to indicate errors
    BYTE reserved; // for word alignment
    short o_carrier_id; // carrier id
    long o_id[10]; // returned delivery
transaction ids
} TXN_RECORD_TPCC_DELIV_DEF,
*PTXN_RECORD_TPCC_DELIV_DEF;

#define TXN_LOG_VERSION 1
#define TXN_DATA_START 4096 // offset in log
file where log records start
#define TXN_LOG_EYE_CATCHER "BC" // signature
bytes at the start of log file

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

```

```

// The transaction log has a header as the first 4K block.
//
typedef struct _TXN_LOG_HEADER
{
    char                EyeCatcher[2];    //
    signature bytes; should always be "BC"
    int                LogVersion;
    // set to TXN_LOG_VERSION
    JULIAN_TIME        BeginTxnTS;
    // timestamp of first (lowest) txn start
    JULIAN_TIME        EndTxnTS;        //
    timestamp of last (highest) txn completion time
    int                iRecCount;
    // number of records in log file
    BOOL                bLogSorted;
    int                iFileSize;
    // file size in bytes

    // the record map provides a fast way to get close to a particular
    timestamp in a sorted log file.
    // struct
    // {
    //     JULIAN_TIME        TS;
    //     // timestamp of record
    //     int                iPos;
    //     // byte position in file
    // }
    RecMap[RecMapSize];
    // #define RecMapSize 200

    } TXN_LOG_HEADER, *PTXN_LOG_HEADER;

#define READ_BUFFER_SIZE 64*1024
#define WRITE_BUFFER_SIZE 8*1024

#define NUM_READ_BUFFERS 1
#define NUM_WRITE_BUFFERS 2
#define MAX_NUM_BUFFERS 2

// flags passed in to the constructor
#define TXN_LOG_WRITE 0x01
#define TXN_LOG_READ 0x02
#define TXN_LOG_SORTED 0x04

#define TXN_LOG_OS_ERROR1
#define TXN_LOG_NOT_SORTED 2

#define SKIP_CTRL_RECS 1

class CTxnLog
{
private:
    DWORD                iBufferSize;
    // buffer allocated size
    DWORD                iBytesFreeInBuffer;
    // total bytes available for use in buffer
    int                iNumBuffers;
    // buffers in use
    int                iActiveBuffer;
    // indicates which buffer is active: 0 or 1
    int                iIoBuffer;
    // buffer for any pending IO operation
    int                iFilePointer;
    // position in file.
    int                iNextRec;
    // when reading, ordinal value of next record

    // A "save point" is remembered each time GetNextRecord is
    called with a start time specified.
    // The next time it is called, if start time is after the save point, we
    start scanning from the
    // save point. This is particularly useful in FindBestInterval, where
    the log is scanned repeatedly.
    JULIAN_TIME        SavePtTime;

    int
    iSavePtFilePointer;
    int
    iSavePtNextRec;

    JULIAN_TIME        lastTS;
    // when writing sorted output, used to verify records are sorted
    BOOL                bWrite;
    // writing log file

    BOOL                bLogSorted;
    // is log file sorted? applies to both input and output
    JULIAN_TIME        BeginTxnTS;
    // timestamp of first (lowest) txn start
    JULIAN_TIME        EndTxnTS;
    // timestamp of last (highest) txn completion time
    int                iRecCount;
    // number of records in log file

    BYTE                *pCurrent;
    // ptr to current buffer
    BYTE                *pBuffer[MAX_NUM_BUFFERS];

    PTXN_RECORD_HEADER    *TxnArray;
    // transaction record pointer array for sort

    DWORD                dwError;
    HANDLE                hTxnFile;
    // handle to log file
    HANDLE                hMapFile;
    // map file used when sorting the log
    HANDLE                hIoComplete;
    // event to signify that there are no pending IOs
    HANDLE                hLogFileIo;
    // event to signal the IO thread to write the inactive buffer

    Spinlock    Spin;
    // spin lock to protect the txn log file buffers

    int Write(BYTE *ptr, DWORD Size);
    static void LogFileIO(CTxnLog *);

public:
    CTxnLog::CTxnLog(LPCTSTR szFileName, DWORD dwOpts);
    ~CTxnLog(void);

    int WriteToLog(PTXN_RECORD_TPCC pTxnRcd);
    int WriteToLog(PTXN_RECORD_TPCC_DELIV_DEF
pTxnRcd);

    int WriteToLog(PTXN_RECORD_CONTROL pCtrlRec);
    int WriteToLog(PTXN_RECORD_HEADER pCtrlRec);

    int WriteCtrlRecToLog(BYTE SubType, LPTSTR lpStr, DWORD
dwLen);

    void CloseTransactionLogFile(void);

    PTXN_RECORD_HEADER GetNextRecord(BOOL
bSkipCtrlRecs = FALSE);
    PTXN_RECORD_HEADER GetNextRecord(JULIAN_TIME
SeekTimeT0, BOOL bSkipCtrlRecs = FALSE);

    int Sort(void);
    PTXN_RECORD_HEADER GetSortedRecord(int index);

    inline BOOL IsSorted(void) { return bLogSorted; };
    inline JULIAN_TIME BeginTS(void) { return BeginTxnTS; };
    inline JULIAN_TIME EndTS(void) { return EndTxnTS; };
    inline int RecordCount(void) { return iRecCount; };

};

class CTXNLOG_ERR : public CBaseErr
{
public:
    enum CTPCC_DBLIB_ERRS
    {
        ERR_BAD_FILE_FORMAT = 1,    // "File format
is invalid."

```

```

ERR_UNKNOWN_LOG_VERSION, // "Log file
version is unknown."
ERR_BROKEN_LOG_FILE, //
"Log file is broken."
ERR_LOG_NOT_SORTED,
// "Log file is not sorted"
ERR_INVALID_TIME_SEQ, //
"Internal Error: Record Time Sequence invalid."
};
CTXNLOG_ERR( int iErr ) { m_errno = iErr; };
int m_errno;
int ErrorType() {return ERR_TYPE_TXNLOG;};
int ErrorNum() {return m_errno;};
// TODO: need to complete...
char *ErrorText() {return "";};
};

```

Stored Procedures

makefile

```

# TPC-C makefile - created in Toronto for DB2/NT
# Build application modules to execute the SQL for the transactions.
# and to invoke the SQL as stored procedures.

DBNAME = TPCC

!IF "$(DBNAME)" == "Y"
DBNAME=sample
!ENDIF

ISO_LEVEL = RR
#ACID = -DACID_TEST

INCLUDE = ..\include;$(DB2PATH)\include;$(MSDEVDIR)\include;

# Pick either optimization or debug
CFLAGS_OPT = -G6 -Ox -O2
#CFLAGS_OPT = -G5
#CFLAGS_DBG =
#CFLAGS_DBG = -Zi
#CFLAGS_DBG = -Zi -DDEBUGIT
CFLAGS_MSVC = -J -Dfar= -D_loadadd= -Dpascal -D_X86=1 -D_MT -D_DLL
CFLAGS_NT = -DNT -DWIN32
CFLAGS_DARI = -DDARIVERISION
CFLAGS_DB2 = -DSQLA_NOLINES -DSQLWINT -DLINT_ARGS ####commented
because of Encina###
#CFLAGS_DB2 = -DSQLA_NOLINES -DSQLWINT -DLINT_ARGS
-DDB2_TIME_STRING
CFLAGS = $(CFLAGS_DBG) $(CFLAGS_OPT) $(CFLAGS_MSVC) $(CFLAGS_NT)
$(CFLAGS_DB2) -I$(INCLUDE)
CC = cl

DB2LIBS = $(DB2PATH)\lib\db2cli.lib$(DB2PATH)\lib\db2api.lib
MSVCLIBS = $(MSDEVDIR)\lib\msvcrt.lib$(MSDEVDIR)\lib\libc.lib
$(MSDEVDIR)\lib\oldnames.lib$(MSDEVDIR)\lib\kernel32.lib
LIBS = $(DB2LIBS) $(MSVCLIBS)

TPCC_INC = ..\include\db2tpcc.h ..\include\lval.h

STORP_OBJ = news.obj ords.obj pays.obj dels.obj stks.obj
DIRECT_OBJ = new.obj ord.obj pay.obj del.obj stk.obj
UTIL_OBJ = ..\Src.Common\tpccmisc.obj ..\Src.Common\tpccdbg.obj

TRAN_C = new.c ord.c pay.c del.c stk.c

TRAN_SQC = new.sqc ord.sqc pay.sqc del.sqc stk.sqc
ALL_SQC = $(TRAN_SQC)

EXE = cleanup_explains rpctpc.dll

```

```

all: $(EXE) unfenced
# all: $(EXE) $(UTIL_OBJ) $(STORP_OBJ) $(DIRECT_OBJ)

# General dependencies

$(TRAN_C): $(TPCC_INC)

$(STORP_OBJ) $(DIRECT_OBJ): $(TRAN_C)

.SUFFIXES:
.SUFFIXES: .obj .c .sqc

.c.obj:
$(CC) $(CFLAGS) /c <

.sqc.c:
echo "SQC->C:"
db2 connect to $(DBNAME)
db2 prep < BINDFILE QUERYOPT 0 explain ALL ISOLATION$(ISO_LEVEL)
MESSAGES prep.msg NOLINEMACRO
db2 bind $*.bnd GRANT PUBLIC MESSAGES bind.msg
db2 connect reset
db2 terminate

# Be able to start db2 for procompilation
startdb:
db2start

db2start:
db2start

cleanup_explains:
db2 connect to tpcc
db2 delete from explain_instance
db2 connect reset
db2 terminate

# Stock is built with a lower isolation level

stk.c: stk.sqc
echo "stk.SQC->C:"
db2 connect to $(DBNAME)
db2 prep $*.sqc BINDFILE QUERYOPT 0 ISOLATION CS MESSAGES prep.msg
NOLINEMACRO explain all
db2 bind $*.bnd GRANT PUBLIC MESSAGES bind.msg
db2 connect reset
db2 terminate

new.c: new.sqc
echo "new.SQC->C:"
db2 connect to $(DBNAME)
db2 prep $*.sqc BINDFILE QUERYOPT 5 ISOLATION RR MESSAGES prep.msg
NOLINEMACRO explain all
db2 bind $*.bnd GRANT PUBLIC MESSAGES bind.msg
db2 connect reset
db2 terminate

# Stored procedures are built in a special way
news.obj: new.c
$(CC) $(CFLAGS) $(CFLAGS_DARI) /Fo$@ /c new.c

ords.obj: ord.c
$(CC) $(CFLAGS) $(CFLAGS_DARI) /Fo$@ /c ord.c

pays.obj: pay.c
$(CC) $(CFLAGS) $(CFLAGS_DARI) /Fo$@ /c pay.c

dels.obj: del.c
$(CC) $(CFLAGS) $(CFLAGS_DARI) /Fo$@ /c del.c

stks.obj: stk.c
$(CC) $(CFLAGS) $(CFLAGS_DARI) /Fo$@ /c stk.c

rpctpc.lib: rpctpc.def
LIB -machine:i386-def:rpctpc.def -out:rpctpc.lib

rpctpc.dll: rpctpc.lib $(STORP_OBJ) $(UTIL_OBJ)

```

```

cd ..\Src.Common
nmake clean
nmake
cd ..\Src.Srv
link /DLL /OUT:$@ rpctpc.exp /DEBUG /DEBUGTYPE:both /MAP:rpctpc.map
$(STORP_OBJ) $(UTIL_OBJ) $(LIBS)

```

```

unfenced: $(EXE)
- del $(DB2PATH)\function\*.dll
- del $(DB2PATH)\function\unfenced\*.dll
copy *.dll $(DB2PATH)\function\unfenced

```

```

fenced: $(EXE)
- del $(DB2PATH)\function\*.dll
- del $(DB2PATH)\function\unfenced\*.dll
copy *.dll $(DB2PATH)\function

```

```

##bind:
## db2 bind stk.bnd GRANT PUBLIC MESSAGES bind.msg
## db2 bind del.bnd GRANT PUBLIC MESSAGES bind.msg
## db2 bind new0.bnd GRANT PUBLIC MESSAGES bind.msg
## db2 bind new1.bnd GRANT PUBLIC MESSAGES bind.msg
## db2 bind ord.bnd GRANT PUBLIC MESSAGES bind.msg
## db2 bind pay.bnd GRANT PUBLIC MESSAGES bind.msg

```

```

clean:
erase /f *.pdb *.bnd *.obj *.out *.lib *.exp *.map $(EXE) $(TRAN_C)

```

build_app.bat

```

db2 connect reset
db2 terminate
db2stop

```

```

sleep 10
db2start
REM echo
*****
*
REM echo ** Building TPCC DARI
REM echo
*****
*

```

```

cd \tpcckit_mln\Src.Srv
nmake clean
nmake all

```

```

copy rpctpc.dll %DB2PATH%\function\unfenced\

```

```

rem * 3. Building TPCC Client
cd \tpcckit_mln\Src.Cli
nmake clean
nmake all

```

rpctpc.def

```

; TPC-C DARI definition file
;
; engn/perf/tpcckit/Src.Srv/rpctpc.def, perf, db2nt_v3, c980410
; 4/10/98 1.5 sccsid

```

```

LIBRARY RPCTPCC
DESCRIPTION 'RPCTPCC.DLL 02.00 5622-044 (C) COPYRIGHT IBM CORP. 1989,
1995 ALL RIGHTS RESERVED LICENSED MATERIALS-PROPERTY OF IBM'

```

```

EXPORTS
dels@16
news@16
pays@16
ords@16
stks@16
dels=dels@16
news=news@16
pays=pays@16
ords=ords@16

```

stks=stks@16

del.sqc

```

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 del.sqc - Implement the delivery transaction.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3
3 Source File Name: engn/perf/tpcckit/Src.Srv/del.sqc, perf, db2nt_v3,
c980410
3 SCCS Id. Number : 4/10/98 1.5
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/01 12:11:15
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

```

```
#include "db2tpcc.h"
```

```

#ifdef DARIVERSION
EXEC SQL INCLUDE SQLCA;
#else
typedef struct sqlca Sqlca;
#define sqlca (*pca)
#endif

```

```

/*-----*/
/* DELIVERY Service */
/*-----*/

```

```

#ifdef DARIVERSION
int daricall dels (void *reserved1,
struct sqlda *pin_sqlda,
struct sqlda *pout_sqlda,
Sqlca *pca)
#else
int dels (struct in_delivery_struct *in_delivery,
struct out_delivery_struct *delivery)
#endif
{
#ifdef DARIVERSION
struct out_delivery_struct *delivery;
struct in_delivery_struct *in_delivery; /* sas05 */
#endif

```

```
EXEC SQL BEGIN DECLARE SECTION;
```

```

short no_d_id;
long w_id; /* change from short to long @000516AYL */
short o_carrier_id, c_delivery_cnt;

```

```
short no_o_id_i;
```

```

short o_c_id;
long no_o_id;

```

```
double c_balance, total_amount;
```

```

// long ol_delivery_d; /* sas02 */
// long curr_tmstamp; /* sas02 */
sqlint64 ol_delivery_d; /* AYL */

```

```

long c_id, oltotal_amount;
EXEC SQL END DECLARE SECTION;

```

```

#ifdef ACID_TEST
EXEC SQL BEGIN DECLARE SECTION;
long new_dist10_ol_total;
double new_balance;
EXEC SQL END DECLARE SECTION;
#endif

```

```
int i, rc;
```

```

int retry_count = -1;

#ifdef ACID_TEST
    printf("\n");
    print_date();
    printf("\n");
#endif

#ifdef DARIVERSION
    /* Retrieve the 'delivery' structure from theSQLDA */
    in_delivery = (struct in_delivery_struct *)pin_sqlda->sqlvar[0].sqldata;
    /* sas05 */
    delivery = (struct out_delivery_struct *)pout_sqlda->sqlvar[0].sqldata;
    /* sas05 */
#endif

#ifdef DEBUGIT
    del_debug(delivery, in_delivery, "Server upon entry");
#endif

    // time((time_t *)&curr_tmstamp);          /* sas02 */
    w_id = in_delivery->s_W_ID;
    o_carrier_id = in_delivery->s_O_CARRIER_ID;
    ol_delivery_d = in_delivery->s_O_DELIVERY_D_time;

retry_tran:
    retry_count++;

    for (i = 1; i <= DISTRICTS_PER_WAREHOUSE; i++)
    {
        /*-----*/
        /* Read NEW_ORDER */
        /*-----*/

        no_d_id = i;
        no_o_id_i = 0;

        EXEC SQL SELECT MIN(no_o_id)
            INTO :no_o_id:no_o_id_i
            FROM new_order
            WHERE no_w_id = :w_id
            AND   no_d_id = :no_d_id; /* return NULL for empty set */

        if (sqlca.sqlcode != 0)
        {
            if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
            sqlerror(DELIVERY_SQL, "SELECT new_order", 115, &sqlca);
            goto ferror;
        }

#ifdef ACID_TEST
        if ((i == 6) && (in_delivery->s_ACID & ACID_ISO_8)) {
            printf("O_ID      \n-----\n%11d\n", no_o_id);
            printf("\nTimestamp after first read of new_order table:\n");
            print_date();
            printf("\n");

            acid_delay(20);

            /* Second read of new order */
            EXEC SQL SELECT MIN(no_o_id)
                INTO :no_o_id:no_o_id_i
                FROM new_order
                WHERE no_w_id = :w_id
                AND   no_d_id = :no_d_id; /* return NULL for empty set */

            if (sqlca.sqlcode != 0)
            {
                if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
                sqlerror(DELIVERY_SQL, "SELECT new_order", 120, &sqlca);
                goto ferror;
            }

            printf("O_ID      \n-----\n%11d\n", no_o_id);
            printf("\nTimestamp after delay and then second read of new_order table:\n");
            print_date();
            printf("\n");
        }
    }

```

```

#endif /* ACID_TEST */

    if (no_o_id_i < 0)          /* Refer to clause 2.7.4.2, bullet 3 in
spec.*/
    {
        /* Need to report if more than 1 or 1% of
        */
        /* transactions have no new_order rows
        */
        delivery->s_O_ID[i - 1] = 0;
        continue;
    }

    delivery->s_O_ID[i - 1] = no_o_id;

    /*-----*/
    /* Read & Update ORDER */
    /*-----*/

    EXEC SQL BEGIN COMPOUND NOT ATOMIC STATIC

        DELETE FROM new_order
        WHERE no_w_id = :w_id
        AND   no_d_id = :no_d_id
        AND   no_o_id = :no_o_id;

        UPDATE orders
        SET o_carrier_id = :o_carrier_id
        WHERE o_id = :no_o_id
        AND   o_w_id = :w_id
        AND   o_d_id = :no_d_id;

        /* Select of o_c_id now done as sub-select in statement below */

        SELECT SUM(ol_amount)
        INTO :oltotal_amount
        FROM order_line
        WHERE ol_w_id = :w_id
        AND   ol_d_id = :no_d_id
        AND   ol_o_id = :no_o_id;

        UPDATE ORDER_LINE
        SET ol_delivery_d = :ol_delivery_d
        WHERE ol_w_id = :w_id
        AND   ol_d_id = :no_d_id
        AND   ol_o_id = :no_o_id;

    END COMPOUND;

    if (sqlca.sqlcode < 0)
    {
        switch (sqlca.sqlerrd[LASTCODE])
        {
            case 0:
                if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
                sqlerror(DELIVERY_SQL, "delete from NEW_ORDER", 200, &sqlca);
                goto ferror;
            case 1:
                if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
                sqlerror(DELIVERY_SQL, "update ORDERS", 208, &sqlca);
                goto ferror;
            case 2:
                if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
                sqlerror(DELIVERY_SQL, "select from ORDER_LINE", 224, &sqlca);
                goto ferror;
            case 3:
                if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
                sqlerror(DELIVERY_SQL, "update ORDER_LINE", 232, &sqlca);
                goto ferror;
            default:
                if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
                sqlerror(DELIVERY_SQL, "default case of compound SQL", 240,
&sqlca);
                goto ferror;
        }
    } /* end of processing for Compound SQL statement */

#ifdef ACID_TEST
    if ((i == 10) && (in_delivery->s_ACID & (ACID_ISO_5 | ACID_ISO_6))) {

```

```

EXEC SQL
  SELECT SUM(ol_amount)
  INTO :new_dist10_ol_total
  FROM order_line
  WHERE ol_w_id = :w_id
  AND   ol_d_id = :no_d_id
  AND   ol_o_id = :no_o_id;

if (sqlca.sqlcode != 0)
{
  sqlerror(DELIVERY_SQL, "ACID test check of district 10 order_line amounts",
250, &sqlca);
  goto ferror;
}
printf("\nSum of order_line amounts for customer in district 10:\n");
printf("order_line_totals\n-----\n%17.2f\n\n",
new_dist10_ol_total);

EXEC SQL
  SELECT c_balance
  INTO :new_balance
  FROM customer
  WHERE c_id = (SELECT o_c_id
                FROM orders
                WHERE o_id = :no_o_id
                AND   o_w_id = :w_id
                AND   o_d_id = :no_d_id)
  AND   c_w_id = :w_id
  AND   c_d_id = :no_d_id;

if (sqlca.sqlcode != 0)
{
  sqlerror(DELIVERY_SQL, "First ACID test check of c_balance",
255, &sqlca);
  goto ferror;
}

printf("\nValue of c_balance before the customer update of customer in district
10:\n%\n\n",
      new_balance);
}
#endif /* ACID_TEST */

total_amount = (double)total_amount / (double)100.0;

EXEC SQL
  UPDATE customer
  SET c_balance = c_balance + :total_amount,
      c_delivery_cnt = c_delivery_cnt + 1
  WHERE c_id = (SELECT o_c_id
                FROM orders
                WHERE o_id = :no_o_id
                AND   o_w_id = :w_id
                AND   o_d_id = :no_d_id)
  AND   c_w_id = :w_id
  AND   c_d_id = :no_d_id;
if (sqlca.sqlcode != 0)
{
  if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
  sqlerror(DELIVERY_SQL, "UPDATE customer", 269, &sqlca);
  goto ferror;
}

} /* End of ... for (i = 1; i <= DISTRICTS_PER_WAREHOUSE; i++) */

#ifdef ACID_TEST
if (in_delivery->s_ACID & ACID_ISO_5)
  printf("\nTimestamp before commit delay of delivery transaction:\n");

if (in_delivery->s_ACID & ACID_ISO_6)
  printf("\nTimestamp before rollback delay of delivery transaction:\n");

if (in_delivery->s_ACID & ACID_ISO_8)
  printf("\nTimestamp before commit of delivery transaction:\n");

print_date();
printf("\n");

```

```

if ((in_delivery->s_ACID & (ACID_ISO_5 | ACID_ISO_6))) {
  acid_delay(20);

  EXEC SQL
    SELECT c_balance
    INTO :new_balance
    FROM customer
    WHERE c_id = (SELECT o_c_id
                  FROM orders
                  WHERE o_id = :no_o_id
                  AND   o_w_id = :w_id
                  AND   o_d_id = :no_d_id)
    AND   c_w_id = :w_id
    AND   c_d_id = 10;

  if (sqlca.sqlcode != 0)
  {
    sqlerror(DELIVERY_SQL, "First ACID test check of c_balance", 286,
&sqlca);
    goto ferror;
  }

  if (in_delivery->s_ACID & ACID_ISO_5)
    printf("\nValue of c_balance for customer in district 10 before commit:\n%\n\n",
          new_balance);
  else {
    printf("\nValue of c_balance for customer in district 10 before rollback:\n%\n\n",
          new_balance);
    goto rollback;
  }
}
#endif /* ACID_TEST */

/* Commit the transaction */
EXEC SQL COMMIT;
if (sqlca.sqlcode != 0)
{
  if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
  sqlerror(DELIVERY_SQL, "COMMIT", 317, &sqlca);
  goto ferror;
}

#ifdef ACID_TEST
if (in_delivery->s_ACID & ACID_ISO_5) {
  printf("\nTimestamp after commit of delivery transaction:\n");
  print_date();
  printf("\n");

  EXEC SQL
    SELECT c_balance
    INTO :new_balance
    FROM customer
    WHERE c_id = (SELECT o_c_id
                  FROM orders
                  WHERE o_id = :no_o_id
                  AND   o_w_id = :w_id
                  AND   o_d_id = :no_d_id)
    AND   c_w_id = :w_id
    AND   c_d_id = 10;

  if (sqlca.sqlcode != 0)
  {
    sqlerror(DELIVERY_SQL, "Second ACID test check of c_balance", 400,
&sqlca);
    goto ferror;
  }

  printf("\nValue of c_balance for customer in district 10 after commit:\n%\n\n",
        new_balance);
}
#endif /* ACID_TEST */

delivery->s_transtatus = TRAN_OK;
rc = 0;
goto mexit;

ferror:
delivery->s_transtatus = FATAL_SQLERROR;

```

```

rc = -1;

rollback:
/* Rollback the transaction */
EXEC SQL rollback work;
if (sqlca.sqlcode != 0)
    sqlerror(DELIVERY_SQL, "ROLLBACK FAILED", 666, &sqlca);

#ifdef ACID_TEST
if (in_delivery->s_ACID & ACID_ISO_6) {
    printf("\nTimestamp after rollback of delivery transaction:\n");
    print_date();
    printf("\n");

    EXEC SQL
        SELECT c_balance
        INTO :new_balance
        FROM customer
        WHERE c_id = (SELECT o_c_id
                      FROM orders
                      WHERE o_id = :no_o_id
                      AND o_w_id = :w_id
                      AND o_d_id = :no_d_id)
        AND c_w_id = :w_id
        AND c_d_id = 10;

    if (sqlca.sqlcode != 0)
    {
        sqlerror(DELIVERY_SQL, "Second ACID test check of c_balance", 688,
        &sqlca);
        goto ferror;
    }

    printf("\nValue of c_balance after the transaction commits:\n%f\n\n",
    new_balance);
}
#else
    del_debug(delivery, in_delivery, "error code");
#endif

mexit:
delivery->deadlocks = retry_count;
if (sqlca.sqlcode < 0)
    rc = SQLZ_DISCONNECT_PROC;
else
    rc = SQLZ_HOLD_PROC;

#ifdef DEBUGIT
    del_debug(delivery, in_delivery, "Server prior to return");
#endif

#ifdef ACID_TEST
    printf("\nReturn delivery data to client:\n\n");
#endif

    return(rc);
}

```

new.sqc

```

/*
** new.sqc: Implement the neworder transaction.
**
** 00/05/15 Remove two cursors to reduce EEE subagents @d000515dje
*/

#include "db2tpcc.h"

#include <stdlib.h>

#ifdef ACID_TEST
#include <time.h>
#include <sys/time.h>
#define acidtime(tvsec, tvusec) tvsec*1000+tvusec/1000
#endif

```

```

/* mww define to use 2 cursors in new order */
#define TPCC_NEW_STOCK_CURSOR

#ifdef DARIVERSION
EXEC SQL INCLUDE SQLCA;
#else
typedef struct sqlca Sqlca;
#define sqlca (*pca)
#endif

void static nsqerror(char *msg, int ptat);
int static is_ORIGINAL( char *string, short length );

/* the sort is done on the client in the DARI version */

#ifdef DARIVERSION
int daricall news (void *reserved1,
                  struct sqlda *pin_sqlda,
                  struct sqlda *pout_sqlda,
                  Sqlca *pca)

#else
int news (struct in_neword_struct *in_neword,
         struct out_neword_struct *neword)
#endif
{

#ifdef ACID_TEST
    FILE *out;
    char out_fn[50];
    struct timeval tv;
    struct timezone tz;
    int audittime;
    int wait = 1;
    int mypid;
#endif

#ifdef DARIVERSION
    struct out_neword_struct *neword;
    struct in_neword_struct *in_neword;
#endif

    int duplicate_items = 1; //AYL Steve's fix for RTE used to be 0

    struct tm *lt; /* sas02 - needed for localtime() */

    int retry_count = -1;
    short ol_in;

    EXEC SQL BEGIN DECLARE SECTION;
    long w_id; /* change from short to long @000516AYL */
    short d_id;
    long o_id;
    short next_o_id;
    short s_quantity;
    long supply_w_id; /* change from short to long @000516AYL */
    short ol_quantity;
    short s_remote_cnt;
    short s_order_cnt;
    short OLITEMS, order_line_rows;
    long ol_i_id;
    long s_ytd;
    long ytd_increment ; // @d000515dje
    char stockDistrictInformation[ 25 ]; // @d000515dje

    // long curr_tmstamp; /* sas02 */
    sqlint64 o_entry_d;

    short allLocal;

    short o_c_id;
    long c_id;

    long item_price;

    struct {short len; char data[50];} i_data;
    struct {short len; char data[50];} s_data;

    long iol_amount;

```

```

EXEC SQL END DECLARE SECTION;

double ol_amount;
double i_price;
char bad_item = 'n';
int i, j, item_cnt, item_idx, isRemote, rc;
int item_processed[15] = {0,0,0,0,0,0,0,0,0,0,0,0,0,0,0};

/* indirects to multi-row order line insert host vars */
long supply_w_idA[15]; /* change from short to long @000516AYL */
short ol_quantityA[15];
long iol_amountA[15];
short ol_lnA[15];
long ol_i_idA[15];
short s_order_cntA[15];
long s_ytdA[15];
short indicators[15];
char distA[15][25]; //GSM4

int stockDaIndex = 0 ; //@d000515dje, mww
FILE *gusfp;

{
EXEC SQL BEGIN DECLARE SECTION;

char c_last[17], c_credit[3];

double c_discount;
double ware_tax, dist_tax;

long id0, id1, id2, id3, id4, id5, id6, id7;
long id8, id9, id10, id11, id12, id13, id14;

// GSM, no i0?
short i0, i1, i2, i3, i4, i5, i6, i7, i8, i9, i10, i11, i12, i13, i14;

char item_name[25];

/* host vars for multi-row insert into order line */
/* change from short to long @000516AYL */
long supply_w_id0, supply_w_id1, supply_w_id2, supply_w_id3;
long supply_w_id4, supply_w_id5, supply_w_id6, supply_w_id7;
long supply_w_id8, supply_w_id9, supply_w_id10, supply_w_id11;
long supply_w_id12, supply_w_id13, supply_w_id14;
short ol_quantity0, ol_quantity1, ol_quantity2, ol_quantity3;
short ol_quantity4, ol_quantity5, ol_quantity6, ol_quantity7;
short ol_quantity8, ol_quantity9, ol_quantity10, ol_quantity11;
short ol_quantity12, ol_quantity13, ol_quantity14;
long iol_amount0, iol_amount1, iol_amount2, iol_amount3;
long iol_amount4, iol_amount5, iol_amount6, iol_amount7;
long iol_amount8, iol_amount9, iol_amount10, iol_amount11;
long iol_amount12, iol_amount13, iol_amount14;
short ol_ln0, ol_ln1, ol_ln2, ol_ln3;
short ol_ln4, ol_ln5, ol_ln6, ol_ln7;
short ol_ln8, ol_ln9, ol_ln10, ol_ln11;
short ol_ln12, ol_ln13, ol_ln14;
long ol_i_id0, ol_i_id1, ol_i_id2, ol_i_id3;
long ol_i_id4, ol_i_id5, ol_i_id6, ol_i_id7;
long ol_i_id8, ol_i_id9, ol_i_id10, ol_i_id11;
long ol_i_id12, ol_i_id13, ol_i_id14;
short s_quantity0, s_quantity1, s_quantity2, s_quantity3;
short s_quantity4, s_quantity5, s_quantity6, s_quantity7;
short s_quantity8, s_quantity9, s_quantity10, s_quantity11;
short s_quantity12, s_quantity13, s_quantity14;
short s_order_cnt0, s_order_cnt1, s_order_cnt2, s_order_cnt3;
short s_order_cnt4, s_order_cnt5, s_order_cnt6, s_order_cnt7;
short s_order_cnt8, s_order_cnt9, s_order_cnt10, s_order_cnt11;
short s_order_cnt12, s_order_cnt13, s_order_cnt14;
long s_ytd0, s_ytd1, s_ytd2, s_ytd3;
long s_ytd4, s_ytd5, s_ytd6, s_ytd7;
long s_ytd8, s_ytd9, s_ytd10, s_ytd11;
long s_ytd12, s_ytd13, s_ytd14;

// GSM4
char dist0[25], dist1[25], dist2[25], dist3[25], dist4[25];
char dist5[25], dist6[25], dist7[25], dist8[25], dist9[25];
char dist10[25], dist11[25], dist12[25], dist13[25], dist14[25];

```

```

EXEC SQL END DECLARE SECTION;

#define c_last newword->s_C_LAST
#define c_credit newword->s_C_CREDIT
#define c_discount newword->s_C_DISCOUNT
#define ware_tax newword->s_W_TAX
#define dist_tax newword->s_D_TAX

// GSM2, changed from item_idx to item_cnt:
#define item_name newword->item[item_cnt].s_I_NAME

// GSM4?
#define dist distA[item_cnt]
#define dist_idx distA[item_idx]

#define id0 in_newword->in_item[0].s_OL_I_ID
#define id1 in_newword->in_item[1].s_OL_I_ID
#define id2 in_newword->in_item[2].s_OL_I_ID
#define id3 in_newword->in_item[3].s_OL_I_ID
#define id4 in_newword->in_item[4].s_OL_I_ID
#define id5 in_newword->in_item[5].s_OL_I_ID
#define id6 in_newword->in_item[6].s_OL_I_ID
#define id7 in_newword->in_item[7].s_OL_I_ID
#define id8 in_newword->in_item[8].s_OL_I_ID
#define id9 in_newword->in_item[9].s_OL_I_ID
#define id10 in_newword->in_item[10].s_OL_I_ID
#define id11 in_newword->in_item[11].s_OL_I_ID
#define id12 in_newword->in_item[12].s_OL_I_ID
#define id13 in_newword->in_item[13].s_OL_I_ID
#define id14 in_newword->in_item[14].s_OL_I_ID

#define iol_amount0 iol_amountA[0]
#define iol_amount1 iol_amountA[1]
#define iol_amount2 iol_amountA[2]
#define iol_amount3 iol_amountA[3]
#define iol_amount4 iol_amountA[4]
#define iol_amount5 iol_amountA[5]
#define iol_amount6 iol_amountA[6]
#define iol_amount7 iol_amountA[7]
#define iol_amount8 iol_amountA[8]
#define iol_amount9 iol_amountA[9]
#define iol_amount10 iol_amountA[10]
#define iol_amount11 iol_amountA[11]
#define iol_amount12 iol_amountA[12]
#define iol_amount13 iol_amountA[13]
#define iol_amount14 iol_amountA[14]

#define ol_i_id0 ol_i_idA[0]
#define ol_i_id1 ol_i_idA[1]
#define ol_i_id2 ol_i_idA[2]
#define ol_i_id3 ol_i_idA[3]
#define ol_i_id4 ol_i_idA[4]
#define ol_i_id5 ol_i_idA[5]
#define ol_i_id6 ol_i_idA[6]
#define ol_i_id7 ol_i_idA[7]
#define ol_i_id8 ol_i_idA[8]
#define ol_i_id9 ol_i_idA[9]
#define ol_i_id10 ol_i_idA[10]
#define ol_i_id11 ol_i_idA[11]
#define ol_i_id12 ol_i_idA[12]
#define ol_i_id13 ol_i_idA[13]
#define ol_i_id14 ol_i_idA[14]

#define ol_ln0 ol_lnA[0]
#define ol_ln1 ol_lnA[1]
#define ol_ln2 ol_lnA[2]
#define ol_ln3 ol_lnA[3]
#define ol_ln4 ol_lnA[4]
#define ol_ln5 ol_lnA[5]
#define ol_ln6 ol_lnA[6]
#define ol_ln7 ol_lnA[7]
#define ol_ln8 ol_lnA[8]
#define ol_ln9 ol_lnA[9]
#define ol_ln10 ol_lnA[10]
#define ol_ln11 ol_lnA[11]
#define ol_ln12 ol_lnA[12]
#define ol_ln13 ol_lnA[13]
#define ol_ln14 ol_lnA[14]

```

```

#define ol_quantity0 ol_quantityA[0]
#define ol_quantity1 ol_quantityA[1]
#define ol_quantity2 ol_quantityA[2]
#define ol_quantity3 ol_quantityA[3]
#define ol_quantity4 ol_quantityA[4]
#define ol_quantity5 ol_quantityA[5]
#define ol_quantity6 ol_quantityA[6]
#define ol_quantity7 ol_quantityA[7]
#define ol_quantity8 ol_quantityA[8]
#define ol_quantity9 ol_quantityA[9]
#define ol_quantity10 ol_quantityA[10]
#define ol_quantity11 ol_quantityA[11]
#define ol_quantity12 ol_quantityA[12]
#define ol_quantity13 ol_quantityA[13]
#define ol_quantity14 ol_quantityA[14]

#define supply_w_id0 supply_w_idA[0]
#define supply_w_id1 supply_w_idA[1]
#define supply_w_id2 supply_w_idA[2]
#define supply_w_id3 supply_w_idA[3]
#define supply_w_id4 supply_w_idA[4]
#define supply_w_id5 supply_w_idA[5]
#define supply_w_id6 supply_w_idA[6]
#define supply_w_id7 supply_w_idA[7]
#define supply_w_id8 supply_w_idA[8]
#define supply_w_id9 supply_w_idA[9]
#define supply_w_id10 supply_w_idA[10]
#define supply_w_id11 supply_w_idA[11]
#define supply_w_id12 supply_w_idA[12]
#define supply_w_id13 supply_w_idA[13]
#define supply_w_id14 supply_w_idA[14]

#define s_quantity0 neword->item[0].s_S_QUANTITY
#define s_quantity1 neword->item[1].s_S_QUANTITY
#define s_quantity2 neword->item[2].s_S_QUANTITY
#define s_quantity3 neword->item[3].s_S_QUANTITY
#define s_quantity4 neword->item[4].s_S_QUANTITY
#define s_quantity5 neword->item[5].s_S_QUANTITY
#define s_quantity6 neword->item[6].s_S_QUANTITY
#define s_quantity7 neword->item[7].s_S_QUANTITY
#define s_quantity8 neword->item[8].s_S_QUANTITY
#define s_quantity9 neword->item[9].s_S_QUANTITY
#define s_quantity10 neword->item[10].s_S_QUANTITY
#define s_quantity11 neword->item[11].s_S_QUANTITY
#define s_quantity12 neword->item[12].s_S_QUANTITY
#define s_quantity13 neword->item[13].s_S_QUANTITY
#define s_quantity14 neword->item[14].s_S_QUANTITY

#define s_order_cnt0 s_order_cntA[0]
#define s_order_cnt1 s_order_cntA[1]
#define s_order_cnt2 s_order_cntA[2]
#define s_order_cnt3 s_order_cntA[3]
#define s_order_cnt4 s_order_cntA[4]
#define s_order_cnt5 s_order_cntA[5]
#define s_order_cnt6 s_order_cntA[6]
#define s_order_cnt7 s_order_cntA[7]
#define s_order_cnt8 s_order_cntA[8]
#define s_order_cnt9 s_order_cntA[9]
#define s_order_cnt10 s_order_cntA[10]
#define s_order_cnt11 s_order_cntA[11]
#define s_order_cnt12 s_order_cntA[12]
#define s_order_cnt13 s_order_cntA[13]
#define s_order_cnt14 s_order_cntA[14]

#define s_ytd0 s_ytdA[0]
#define s_ytd1 s_ytdA[1]
#define s_ytd2 s_ytdA[2]
#define s_ytd3 s_ytdA[3]
#define s_ytd4 s_ytdA[4]
#define s_ytd5 s_ytdA[5]
#define s_ytd6 s_ytdA[6]
#define s_ytd7 s_ytdA[7]
#define s_ytd8 s_ytdA[8]
#define s_ytd9 s_ytdA[9]
#define s_ytd10 s_ytdA[10]
#define s_ytd11 s_ytdA[11]
#define s_ytd12 s_ytdA[12]

```

```

#define s_ytd13 s_ytdA[13]
#define s_ytd14 s_ytdA[14]

```

```

#define i0 indicators[0]
#define i1 indicators[1]
#define i2 indicators[2]
#define i3 indicators[3]
#define i4 indicators[4]
#define i5 indicators[5]
#define i6 indicators[6]
#define i7 indicators[7]
#define i8 indicators[8]
#define i9 indicators[9]
#define i10 indicators[10]
#define i11 indicators[11]
#define i12 indicators[12]
#define i13 indicators[13]
#define i14 indicators[14]

```

```

// GSM4:
#define dist0 distA[0]
#define dist1 distA[1]
#define dist2 distA[2]
#define dist3 distA[3]
#define dist4 distA[4]
#define dist5 distA[5]
#define dist6 distA[6]
#define dist7 distA[7]
#define dist8 distA[8]
#define dist9 distA[9]
#define dist10 distA[10]
#define dist11 distA[11]
#define dist12 distA[12]
#define dist13 distA[13]
#define dist14 distA[14]
}

```

```

/*-----*/
/* Declare CURSORS */
/*-----*/

```

```

/*
** The following alternate statement uses a common table expression to
** simulate the IN-to-JOIN query transformation thatQRW performs
** only when there is a single table (currently). An example of this
** automatic transformation can be found in the next cursor.
** The advantage is fewer DMS calls since the qualifying items
** do not have to be placed into a sorted temp, nor do we
** have to refetch the row after index or-ing. -KBS
** NOTE: V2 syntax only
*/

```

```

/* uses local item table *****

```

```

EXEC SQL DECLARE Item_Stock_cursor CURSOR FOR
WITH listtable ( list ) as
( VALUES :id0:i0,:id1:i1,:id2:i2,:id3:i3,:id4:i4,
:id5:i5,:id6:i6,:id7:i7,:id8:i8,:id9:i9,
:id10:i10,:id11:i11,:id12:i12,:id13:i13,:id14:i14 )
SELECT i_id, i_price, i_name, i_data, s_quantity,
s_data, s_order_cnt, s_ytd,
case :d_id when 1 then s_dist_01
when 2 then s_dist_02
when 3 then s_dist_03
when 4 then s_dist_04
when 5 then s_dist_05
when 6 then s_dist_06
when 7 then s_dist_07
when 8 then s_dist_08
when 9 then s_dist_09
when 10 then s_dist_10 end
FROM item1, stock, listtable
WHERE i_id = listtable.list
AND s_i_id = i_id
AND s_w_id = :w_id
-- AND nodenumber(I_NODE_ID)= CURRENT NODE
-- AND nodenumber(I_ID)= 0
-- AND nodenumber(I_NODE_ID)= 0

```

```

OPTIMIZE FOR 1 ROW
FOR FETCH ONLY;
*****

EXEC SQL DECLARE Item_Stock_cursor CURSOR FOR
WITH listtable ( list ) as
( VALUES :id0:i0, :id1:i1, :id2:i2, :id3:i3, :id4:i4,
:id5:i5, :id6:i6, :id7:i7, :id8:i8, :id9:i9,
:id10:i10, :id11:i11, :id12:i12, :id13:i13, :id14:i14 )
SELECT i_id, i_price, i_name, i_data, s_quantity,
s_data, s_order_cnt, s_ytd,
case :d_id when 1 then s_dist_01
when 2 then s_dist_02
when 3 then s_dist_03
when 4 then s_dist_04
when 5 then s_dist_05
when 6 then s_dist_06
when 7 then s_dist_07
when 8 then s_dist_08
when 9 then s_dist_09
when 10 then s_dist_10 end
FROM item, stock, listtable
WHERE i_id = listtable.list
AND s_i_id = i_id
AND s_w_id = :w_id
-- AND nodenumber(I_NODE_ID) = CURRENT NODE
-- AND nodenumber(I_ID) = 0
-- AND nodenumber(I_NODE_ID) = 0
OPTIMIZE FOR 1 ROW
FOR FETCH ONLY;

/* Alternative version *****

EXEC SQL DECLARE Item_Stock_cursor CURSOR FOR
SELECT i_id, i_price, i_name, i_data, s_quantity,
s_data, s_order_cnt, s_ytd,
s_dist_01, s_dist_02, s_dist_03, s_dist_04, s_dist_05,
s_dist_06, s_dist_07, s_dist_08, s_dist_09, s_dist_10
FROM item, stock
WHERE i_id in (:id0, :id1:i1, :id2:i2, :id3:i3, :id4:i4,
:id5:i5, :id6:i6, :id7:i7, :id8:i8, :id9:i9,
:id10:i10, :id11:i11, :id12:i12, :id13:i13, :id14:i14)
AND s_i_id = i_id
AND s_w_id = :w_id
/-- AND nodenumber(I_NODE_ID) = 0
FOR FETCH ONLY;

*****

/* Uses ITEM1 local table *****

EXEC SQL DECLARE Item_cursor CURSOR FOR
WITH listtable ( list ) as
( VALUES :id0, :id1:i1, :id2:i2, :id3:i3, :id4:i4,
:id5:i5, :id6:i6, :id7:i7, :id8:i8, :id9:i9,
:id10:i10, :id11:i11, :id12:i12, :id13:i13, :id14:i14 )
SELECT i_id, i_price, i_name, i_data
FROM item1, listtable
WHERE i_id = listtable.list
-- AND nodenumber(I_NODE_ID) = CURRENT NODE
-- AND nodenumber(I_NODE_ID) = 0
OPTIMIZE FOR 1 ROW
FOR FETCH ONLY;
*****

EXEC SQL DECLARE Item_cursor CURSOR FOR
WITH listtable ( list ) as
( VALUES :id0:i0, :id1:i1, :id2:i2, :id3:i3, :id4:i4,
:id5:i5, :id6:i6, :id7:i7, :id8:i8, :id9:i9,
:id10:i10, :id11:i11, :id12:i12, :id13:i13, :id14:i14 )
SELECT i_id, i_price, i_name, i_data
FROM item, listtable
WHERE i_id = listtable.list
-- AND nodenumber(I_NODE_ID) = 0
-- AND nodenumber(I_NODE_ID) = CURRENT NODE
OPTIMIZE FOR 1 ROW

```

```

FOR FETCH ONLY;

//<@d000515dje
// Following cursors removed - use searched update instead

#ifdef TPCC_NEW_STOCK_CURSOR

// Dropped fetch of s_ytd, s_order_cnt, s_remote_cnt. These columns are not
//@d000515dje
// required to be retrieved by the spec, and can be updated directly at the server.

EXEC SQL DECLARE Stock_cursor CURSOR FOR
SELECT s_quantity,
s_data,
case :d_id when 1 then s_dist_01
when 2 then s_dist_02
when 3 then s_dist_03
when 4 then s_dist_04
when 5 then s_dist_05
when 6 then s_dist_06
when 7 then s_dist_07
when 8 then s_dist_08
when 9 then s_dist_09
when 10 then s_dist_10 end
FROM stock
WHERE s_w_id = :supply_w_id
AND s_i_id = :ol_i_id
FOR UPDATE OF s_quantity, s_order_cnt, s_ytd, s_remote_cnt ;

#endif

// The dist_cur is still used in the ACID TEST way down there somewhere.
//>@d000515dje

EXEC SQL
DECLARE dist_cur CURSOR FOR
SELECT d_tax, d_next_o_id FROM district
WHERE d_id = :d_id AND d_w_id = :w_id
FOR UPDATE OF d_next_o_id;

#ifdef DARIVERSION
/* Retrieve the 'newword' structure from the SQLDA */
in_newword = (struct in_newword_struct *)pin_sqlda->sqlvar[0].sqldata;
newword = (struct out_newword_struct *)pout_sqlda->sqlvar[0].sqldata;
#endif

/* copy the input to output */
// duplicate_items = newword->duplicate_items;

// GSM2, initialize item_cnt so that our sizeof for the da will work
item_cnt = 0;

#ifdef DEBUGIT
newword->s_O_OL_CNT = 0; //GSM
new_debug(newword, in_newword, "Server upon entry");
#endif

/* current_tmstamp(&curr_tmstamp[0]); sas02 */
/* curr_tmstamp[19] = (char)NULL; sas02 */
// time((time_t*)&curr_tmstamp); /* sas02 */

allLocal = in_newword->s_all_local;
OLITEMS = newword->s_O_OL_CNT = in_newword->s_O_OL_CNT; // GSM

d_id = in_newword->s_D_ID;
w_id = in_newword->s_W_ID;
c_id = in_newword->s_C_ID;
o_c_id = c_id;

#ifdef ACID_TEST
mypid = getpid();
sprintf(out_fn, DB2OUT "tpcc.newword.out.%d", mypid);
out=fopen(out_fn, "a");
allLocal = 0;
gettimeofday(&tv, &tz);
auditime = acidtime(tv.tv_sec, tv.tv_usec);
fprintf(out, "\n-----START of NEWORDER PID: %d -----\\n\\n", mypid);

```

```

fprintf(out, "NEWWORD PID: %d, begin transaction time: %u\n", mypid, audittime);
fprintf(out, "W_ID: %d \t D_ID: %d \t C_ID: %d\n",
    in_newword->s_W_ID, in_newword->s_D_ID, in_newword->s_C_ID);
#endif

retry_tran:
    item_idx = -1;
    retry_count++;
    if (duplicate_items && retry_count > 0)
        for (i=0; i<15; i++) item_processed[i]=0;

/*-----*/
/* Use CURSOR to SELECT DISTRICT information and then to */
/* UPDATE DISTRICT. */
/*-----*/
#ifdef ACID_TEST
    gettimeofday(&tv, &tz);
    audittime = acidtime(tv.tv_sec, tv.tv_usec);
    fprintf(out, "NEWWORD PID: %d, before fetch D_TAX & D_NEXT_O_ID time: %u\n",
        mypid, audittime);
#endif

//<@d000515dje
//EXEC SQL OPEN dist_cur;

//if (sqlca.sqlcode != 0) {
//    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
//    sqlerror(NEWWORD_SQL, "OPEN dis_cur", 185, &sqlca);
//    goto ferror;
//}

//EXEC SQL
//    FETCH dist_cur INTO
//        :dist_tax, :next_o_id;

// Even though for fetch only, RR holds the lock, preventing updates elsewhere.

EXEC SQL
    SELECT d_tax,    d_next_o_id
    INTO   :dist_tax, :next_o_id
    FROM   district
    WHERE  d_id = :d_id
    AND    d_w_id = :w_id;

//>@d000515dje

if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    //sqlerror(NEWWORD_SQL, "FETCH dist_cur", 206, &sqlca); //@d000515dje
    sqlerror(NEWWORD_SQL, "FETCH district", 206, &sqlca); //@d000515dje
    goto ferror;
}

/* ACID TEST REMOVED */

o_id = next_o_id;
newword->s_O_ID = o_id;

next_o_id++; // left this open, seems to be used way down in ACID_TEST
//@d000515dje
//    at around line 1710 - not used locally anymore    //@d000515dje

//<@d000515dje
//EXEC SQL
//    UPDATE district
//    SET d_next_o_id = :next_o_id
//    WHERE CURRENT OF dist_cur;

EXEC SQL

    UPDATE district

    SET d_next_o_id = d_next_o_id + 1
    WHERE d_id = :d_id
    AND d_w_id = :w_id;

//>@d000515dje

```

```

if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    //sqlerror(NEWWORD_SQL, "UPDATE dist_cur", 234, &sqlca); //@d000515dje
    sqlerror(NEWWORD_SQL, "UPDATE district", 234, &sqlca); //@d000515dje
    goto ferror;
}

for(i = 0; i < OLITEMS; i++)
    indicators[i] = 0;
for(i = OLITEMS; i < 15; i++)
    indicators[i] = -1;

/*-----*/
/*          Process lines loop          */
/*-----*/
order_line_rows = 0;
if (allLocal)
{
    // All of the supplying warehouses are the local one

    char sqlda_storage[SQLDASIZE(9)];
    struct sqlda *da = (struct sqlda *)sqlda_storage;

    da->sqln = da->sqld = 9;
    da->sqlvar[0].sqltype = SQL_TYP_INTEGER;
    da->sqlvar[0].sqln = sizeof(ol_i_id);
    da->sqlvar[0].sqldata = (void*)&ol_i_id;

    da->sqlvar[1].sqltype = SQL_TYP_INTEGER;
    da->sqlvar[1].sqln = sizeof(item_price);
    da->sqlvar[1].sqldata = (void*)&item_price;

    da->sqlvar[2].sqltype = SQL_TYP_CSTR;
    da->sqlvar[2].sqln = sizeof(item_name);
    //GSM2, moved into the loop below
    //da->sqlvar[2].sqldata = item_name;

    da->sqlvar[3].sqltype = SQL_TYP_VARCHAR;
    da->sqlvar[3].sqln = sizeof(i_data.data);
    da->sqlvar[3].sqldata = (void*)&i_data;

    da->sqlvar[4].sqltype = SQL_TYP_SMALL;
    da->sqlvar[4].sqln = sizeof(s_quantity);
    da->sqlvar[4].sqldata = (void*)&s_quantity;

    da->sqlvar[5].sqltype = SQL_TYP_VARCHAR;
    da->sqlvar[5].sqln = sizeof(s_data.data);
    da->sqlvar[5].sqldata = (void*)&s_data;

    da->sqlvar[6].sqltype = SQL_TYP_SMALL;
    da->sqlvar[6].sqln = sizeof(s_order_cnt);
    da->sqlvar[6].sqldata = (void*)&s_order_cnt;

    da->sqlvar[7].sqltype = SQL_TYP_INTEGER;
    da->sqlvar[7].sqln = sizeof(s_ytd);
    da->sqlvar[7].sqldata = (void*)&s_ytd;

    da->sqlvar[8].sqltype = SQL_TYP_CSTR;
    da->sqlvar[8].sqln = sizeof(dist);
    //GSM4, moved into the loop below
    //da->sqlvar[8].sqldata = dist;

    EXEC SQL OPEN Item_Stock_cursor;
    if (sqlca.sqlcode != 0) {
        if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
        sqlerror(NEWWORD_SQL, "open Item_Stock_cursor", 305, &sqlca);
        goto ferror;
    }

    // GSM3, one of Steve's fixes, also from TPM100K
    newword->s_total_amount = 0.0;

    for (item_cnt = 0; item_cnt < OLITEMS; )
    {
        // GSM2, we need to point at the right location for the item name
        da->sqlvar[2].sqldata = item_name;
    }
}

```

```

// GSM4, put district info into multi-line insert array
da->sqlvar[8].sqldata = dist;

EXEC SQL FETCH Item_Stock_cursor
  USING DESCRIPTOR :*da;

if (sqlca.sqlcode < 0) {
  if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
  sqlerror(NEWORD_SQL, "FETCH Item_Stock_cursor",362, &sqlca);
  goto ferror;
} else if (sqlca.sqlcode > 0) { //GUS
  bad_item = 'y';
  break;
}

i_price = (double) item_price / (double) 100.0;

/*-----*/
/* Match fetched stock with order line and move data */
/*-----*/
if (in_neword->in_item[item_cnt].s_OL_I_ID== ol_i_id &&
    !item_processed[item_cnt]) { //AYL Steve's fix for RTE
  item_idx = item_cnt;
  item_processed[item_cnt] = 1; //AYL Steve's fix for RTE
} else {
  for (i = OLITEMS - 1; i >= 0; i--) { /* nb: colwell's fix for os2 */
    if (in_neword->in_item[i].s_OL_I_ID== ol_i_id &&
        ! (duplicate_items && item_processed[i]))
    {
      item_idx = i;
      item_processed[i]=1;
      break;
    }
  }
}

++item_cnt;

s_ytdA[item_idx] = s_ytd + in_neword->in_item[item_idx].s_OL_QUANTITY;
s_quantity -= in_neword->in_item[item_idx].s_OL_QUANTITY;

if (s_quantity < 10) s_quantity += 91;
neword->item[item_idx].s_I_PRICE = i_price;

neword->item[item_idx].s_OL_AMOUNT = neword->item[item_idx].s_I_PRICE *
  in_neword->in_item[item_idx].s_OL_QUANTITY;
neword->s_total_amount += neword->item[item_idx].s_OL_AMOUNT;

if ( is_ORIGINAL( s_data.data, s_data.len ) &&
    is_ORIGINAL( i_data.data, i_data.len ) )
  neword->item[item_idx].s_brand_generic = 'B';
else
  neword->item[item_idx].s_brand_generic = 'G';

neword->item[item_idx].s_S_QUANTITY = s_quantity;
ol_ln = item_idx + 1;
ol_quantity = in_neword->in_item[item_idx].s_OL_QUANTITY;
ol_amount = neword->item[item_idx].s_OL_AMOUNT;
iol_amount = ol_amount * 100.0;

s_order_cntA[order_line_rows] = s_order_cnt + 1;

/* set up rows for multi-row insert into order-line */
supply_w_idA[order_line_rows] = w_id;
ol_quantityA[order_line_rows] = ol_quantity;
iol_amountA[order_line_rows] = iol_amount;
ol_lnA[order_line_rows] = ol_ln;
ol_i_idA[order_line_rows] = ol_i_id;
order_line_rows++;

/*
EXEC SQL UPDATE stock
  SET s_quantity = :s_quantity,
      s_order_cnt = :s_order_cnt,
      s_ytd = :s_ytd
  WHERE s_w_id = :w_id AND s_i_id = :ol_i_id;

if (sqlca.sqlcode != 0) {

```

```

if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
sqlerror(NEWORD_SQL, "UPDATE stock",490, &sqlca);
goto ferror;
}
*/

#ifdef ACID_TEST
  if (item_cnt < OLITEMS) id0 = in_neword->in_item[item_cnt].s_OL_I_ID;
#endif
} /* end for (item_cnt = 0; item_cnt < OLITEMS;) */

EXEC SQL BEGIN COMPOUND NOT ATOMIC STATIC
  STOP AFTER FIRST :order_line_rows STATEMENTS

UPDATE stock
SET s_quantity = :s_quantity0,
    s_order_cnt = :s_order_cnt0,
    s_ytd = :s_ytd0
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id0;

UPDATE stock
SET s_quantity = :s_quantity1,
    s_order_cnt = :s_order_cnt1,
    s_ytd = :s_ytd1
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id1;

UPDATE stock
SET s_quantity = :s_quantity2,
    s_order_cnt = :s_order_cnt2,
    s_ytd = :s_ytd2
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id2;

UPDATE stock
SET s_quantity = :s_quantity3,
    s_order_cnt = :s_order_cnt3,
    s_ytd = :s_ytd3
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id3;

UPDATE stock
SET s_quantity = :s_quantity4,
    s_order_cnt = :s_order_cnt4,
    s_ytd = :s_ytd4
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id4;

UPDATE stock
SET s_quantity = :s_quantity5,
    s_order_cnt = :s_order_cnt5,
    s_ytd = :s_ytd5
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id5;

UPDATE stock
SET s_quantity = :s_quantity6,
    s_order_cnt = :s_order_cnt6,
    s_ytd = :s_ytd6
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id6;

UPDATE stock
SET s_quantity = :s_quantity7,
    s_order_cnt = :s_order_cnt7,
    s_ytd = :s_ytd7
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id7;

UPDATE stock
SET s_quantity = :s_quantity8,
    s_order_cnt = :s_order_cnt8,
    s_ytd = :s_ytd8
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id8;

```

```

UPDATE stock
SET s_quantity = :s_quantity9,
    s_order_cnt = :s_order_cnt9,
    s_ytd = :s_ytd9
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id9;

UPDATE stock
SET s_quantity = :s_quantity10,
    s_order_cnt = :s_order_cnt10,
    s_ytd = :s_ytd10
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id10;

UPDATE stock
SET s_quantity = :s_quantity11,
    s_order_cnt = :s_order_cnt11,
    s_ytd = :s_ytd11
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id11;

UPDATE stock
SET s_quantity = :s_quantity12,
    s_order_cnt = :s_order_cnt12,
    s_ytd = :s_ytd12
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id12;

UPDATE stock
SET s_quantity = :s_quantity13,
    s_order_cnt = :s_order_cnt13,
    s_ytd = :s_ytd13
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id13;

UPDATE stock
SET s_quantity = :s_quantity14,
    s_order_cnt = :s_order_cnt14,
    s_ytd = :s_ytd14
WHERE s_w_id = :w_id
AND s_i_id = :ol_i_id14;

END COMPOUND;

if (sqlca.sqlcode != 0)
{
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(NEWORD_SQL, "UPDATE stock", 400 + sqlca.sqlerrd[LASTCODE],
&sqlca);
    goto ferror;
}
}
else
{
    //
    // allLocal == 0,
    // have to handle remote supplying warehouses
    //

    char item_sqlda_storage[SQLDASIZE(4)];
    struct sqlda *item_da = (struct sqlda *)item_sqlda_storage;

    // GSM3, 4 -> 6, one of Steve's fixes
    char stock_sqlda_storage[SQLDASIZE(6)];
    struct sqlda *stock_da = (struct sqlda *)stock_sqlda_storage;

    item_da->sqln = item_da->sqld = 4;
    item_da->sqlvar[0].sqltype = SQL_TYP_INTEGER;
    item_da->sqlvar[0].sqllen = sizeof(ol_i_id);
    item_da->sqlvar[0].sqldata = (void*)&ol_i_id;

    item_da->sqlvar[1].sqltype = SQL_TYP_INTEGER;
    item_da->sqlvar[1].sqllen = sizeof(item_price);
    item_da->sqlvar[1].sqldata = (void*)&item_price;

    item_da->sqlvar[2].sqltype = SQL_TYP_CSTR;
    item_da->sqlvar[2].sqllen = sizeof(item_name);
    //GSM2, moved into the loop below

```

```

//item_da->sqlvar[2].sqldata = item_name;

item_da->sqlvar[3].sqltype = SQL_TYP_VARCHAR;
item_da->sqlvar[3].sqllen = sizeof(i_data.data);
item_da->sqlvar[3].sqldata = (void*)&i_data;

//<@d000515dje

#ifdef TPCC_NEW_STOCK_CURSOR

    stockDaIndex = 0 ;

    stock_da->sqlvar[ stockDaIndex ].sqltype = SQL_TYP_SMALL; /*index 0*/
    stock_da->sqlvar[ stockDaIndex ].sqllen = sizeof(s_quantity);
    stock_da->sqlvar[ stockDaIndex++ ].sqldata = (char*)&s_quantity;

    stock_da->sqlvar[ stockDaIndex ].sqltype = SQL_TYP_VARCHAR; /*index 1*/
    stock_da->sqlvar[ stockDaIndex ].sqllen = sizeof(s_data.data);
    stock_da->sqlvar[ stockDaIndex++ ].sqldata = (char*)&s_data;

    //stock_da->sqlvar[ stockDaIndex ].sqltype = SQL_TYP_SMALL;
    //stock_da->sqlvar[ stockDaIndex ].sqllen = sizeof(s_order_cnt);
    //stock_da->sqlvar[ stockDaIndex++ ].sqldata = (char*)&s_order_cnt;

    //stock_da->sqlvar[ stockDaIndex ].sqltype = SQL_TYP_SMALL;
    //stock_da->sqlvar[ stockDaIndex ].sqllen = sizeof(s_remote_cnt);
    //stock_da->sqlvar[ stockDaIndex++ ].sqldata = (char*)&s_remote_cnt;

    //stock_da->sqlvar[ stockDaIndex ].sqltype = SQL_TYP_INTEGER;
    //stock_da->sqlvar[ stockDaIndex ].sqllen = sizeof(s_ytd);
    //stock_da->sqlvar[ stockDaIndex++ ].sqldata = (char*)&s_ytd;

    stock_da->sqlvar[ stockDaIndex ].sqltype = SQL_TYP_CSTR; /* index 2 */
    stock_da->sqlvar[ stockDaIndex ].sqllen = sizeof(dist_idx); //@d000515dje

    stock_da->sqln = stock_da->sqld = stockDaIndex + 1 ; //@d000515dje

#endif
//>@d000515dje

#ifdef ACID_TEST
EXEC SQL OPEN Item_cursor;
if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(NEWORD_SQL, "open Item_cursor", 319, &sqlca);
    goto ferror;
}
}
#endif

// GSM3, one of Steve's fixes, also from TPM100K
neword->s_total_amount = 0.0;

for (item_cnt = 0; item_cnt < OLITEMS;)
{
#ifdef ACID_TEST
#ifdef SRSFIX
    if (duplicate_items) {
        j = item_idx + 1;
        if (j < OLITEMS && j > 0 && in_neword->in_item[j].s_OL_I_ID == ol_i_id) goto
rdup;
    }
}
#endif
// GSM2, we need to point at the right location for the item name
item_da->sqlvar[2].sqldata = item_name;

EXEC SQL FETCH Item_cursor
    USING DESCRIPTOR :*item_da;
#else
EXEC SQL SELECT i_id, i_price, i_name, i_data
    INTO :ol_i_id, :item_price, :item_name, :i_data
    FROM item
    WHERE i_id = :id0;
    -- AND nodenumber(I_NODE_ID) = 0;
    /* AND nodenumber(I_NODE_ID) = CURRENT NODE; */

    if (sqlca.sqlcode == 0) {

```

```

gettimeofday(&tv, &tz);
audittime = acidtime(tv.tv_sec, tv.tv_usec);
i_price = (double) item_price / (double) 100.0;
fprintf(out, "NEWORD PID: %d, after read item_price time: %u \n",
        mypid, audittime);
fprintf(out, "I_ID: %d \t I_PRICE: %0.2f \n",
        ol_i_id, i_price);
if (wait) {
    sleep(15);
    wait = 0;
}
}
#endif
if (sqlca.sqlcode < 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(NEWORD_SQL, "FETCH Item_cursor", 385, &sqlca);
    goto ferror;
} else if (sqlca.sqlcode > 0) {
    bad_item = 'y';
}

//AYL    nsqerror("GUS1:", sqlca.sqlcode);

    break;
}
i_price = (double) item_price / (double) 100.0;

rdup:
/*-----*/
/* Match fetched stock with order line and move data */
/*-----*/
if (in_neword->in_item[item_cnt].s_OL_I_ID == ol_i_id &&
    !item_processed[item_cnt]) { //AYL Steve's fix for RTE
    item_idx = item_cnt;
    item_processed[item_cnt] = 1; //AYL Steve's fix for RTE
} else {
#endif
char srs[90];
sprintf(srs, "huh? item_cnt=%d, ol_i_id=%d", item_cnt, ol_i_id);
/* this should NEVER happen */
new_debug(neword, in_neword, srs);
#endif
for (i = OLITEMS - 1; i >= 0; i--) { /* nb: colwell's fix for os2 */
    if (in_neword->in_item[i].s_OL_I_ID == ol_i_id &&
        ! (duplicate_items && item_processed[i]))
    {
        item_idx = i;
        item_processed[i] = 1;
        break;
    }
}
}

item_cnt++;

supply_w_id = in_neword->in_item[item_idx].s_OL_SUPPLY_W_ID;

//<@d000515dje

#ifdef TPCC_NEW_STOCK_CURSOR
EXEC SQL OPEN Stock_cursor;
if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(NEWORD_SQL, "OPEN Stock_cursor", 409, &sqlca);
    goto ferror;
}

// GSM4, put district info in multi-line insert array
stock_da->sqlvar[ stockDaIndex ].sqldata = (char*)dist_idx; //@d000515dje

EXEC SQL FETCH Stock_cursor
USING DESCRIPTOR :stock_da; //@d000515dje
#else
// spec only demands that three fields be retrieved from the table, removed fetch of
// s_order_cnt, s_remote_cnt, s_ytd
//

EXEC SQL

```

```

SELECT s_quantity ,
       s_data ,
       case :d_id when 1 then s_dist_01
            when 2 then s_dist_02
            when 3 then s_dist_03
            when 4 then s_dist_04
            when 5 then s_dist_05
            when 6 then s_dist_06
            when 7 then s_dist_07
            when 8 then s_dist_08
            when 9 then s_dist_09
            when 10 then s_dist_10 end

INTO :s_quantity, :s_data, :stockDistrictInformation

FROM stock

WHERE s_w_id = :supply_w_id
      AND s_i_id = :ol_i_id ;
#endif
//>@d000515dje

if (sqlca.sqlcode != 0) {

FILE *debug_fp;
char timeStamp[27];
int j, items;

if ((debug_fp = fopen("c:\\tmp\\new.out", "a+")) == NULL)
{
    return;
}

fprintf(debug_fp, "stockDaIndex=%d", stockDaIndex );
fprintf(debug_fp, "quantityType=%d", stock_da->sqlvar[0].sqltype );
fprintf(debug_fp, "quantityLen=%d", stock_da->sqlvar[0].sqllen );
fprintf(debug_fp, "dataType=%d", stock_da->sqlvar[1].sqltype );
fprintf(debug_fp, "dataLen=%d", stock_da->sqlvar[1].sqllen );
fprintf(debug_fp, "distType=%d", stock_da->sqlvar[2].sqltype );
fprintf(debug_fp, "distLen=%d", stock_da->sqlvar[2].sqllen );

fprintf(debug_fp, "===== \n");
fclose( debug_fp );

if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
#ifdef TPCC_NEW_STOCK_CURSOR
    sqlerror(NEWORD_SQL, "FETCH Stock_cursor", 422, &sqlca);
#else
    sqlerror(NEWORD_SQL, "SELECT INTO from Stock", 422, &sqlca);
//@d000515dje
#endif
goto ferror;
}

#ifdef TPCC_NEW_STOCK_CURSOR
strcpy( dist_idx, stockDistrictInformation ); //@d000515dje
#endif
ytd_increment = in_neword->in_item[item_idx].s_OL_QUANTITY;

s_quantity -= ytd_increment; //@d000515dje

if ( s_quantity < 10 ) {
    s_quantity += 91;
}

//s_order_cnt++; //@d000515dje These columns updated through SQL
//if( supply_w_id != w_id ) //@d000515dje
// s_remote_cnt++; //@d000515dje

//<@d000515dje

#ifdef TPCC_NEW_STOCK_CURSOR

if( supply_w_id == w_id ) { // i.e. local

```

```

EXEC SQL
UPDATE STOCK
SET s_quantity = :s_quantity,
    s_order_cnt = s_order_cnt + 1,
    s_ytd = s_ytd + :ytd_increment

WHERE CURRENT OF Stock_cursor ;

}
else {          // remote

EXEC SQL
UPDATE STOCK
SET s_quantity = :s_quantity ,
    s_order_cnt = s_order_cnt + 1,
    s_ytd = s_ytd + :ytd_increment ,
    s_remote_cnt = s_remote_cnt + 1

WHERE CURRENT OF Stock_cursor ;
}
#else
if( supply_w_id == w_id ) { // i.e. local

EXEC SQL

UPDATE STOCK

SET s_quantity = :s_quantity ,
    s_order_cnt = s_order_cnt + 1 ,
    s_ytd = s_ytd + :ytd_increment

WHERE s_w_id = :supply_w_id
AND s_i_id = :ol_i_id ;
}
else {          // remote

EXEC SQL

UPDATE STOCK

SET s_quantity = :s_quantity ,
    s_order_cnt = s_order_cnt + 1 ,
    s_ytd = s_ytd + :ytd_increment ,
    s_remote_cnt = s_remote_cnt + 1

WHERE s_w_id = :supply_w_id
AND s_i_id = :ol_i_id ;
}
#endif
//>@d000515dje

if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(NEWORD_SQL, "UPDATE stock", 524, &sqlca);
    goto ferror;
}

//<@d000515dje
#ifdef TPCC_NEW_STOCK_CURSOR
EXEC SQL CLOSE Stock_cursor;
if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(NEWORD_SQL, "CLOSE Stock_cursor", 534, &sqlca);
    goto ferror;
}
#endif
//>@d000515dje

// Following lines moved below UPDATE for clarity//<@d000515dje

// strcpy(newword->item[item_idx].s_I_NAME,item_name);

newword->item[item_idx].s_I_PRICE = i_price;

newword->item[item_idx].s_OL_AMOUNT = newword->item[item_idx].s_I_PRICE *
    in_newword->in_item[item_idx].s_OL_QUANTITY;
newword->s_total_amount += newword->item[item_idx].s_OL_AMOUNT;

```

```

if ( is_ORIGINAL( s_data.data, s_data.len ) &&
    is_ORIGINAL( i_data.data, i_data.len ) )
    newword->item[item_idx].s_brand_generic = 'B';
else
    newword->item[item_idx].s_brand_generic = 'G';

newword->item[item_idx].s_S_QUANTITY = s_quantity;
ol_ln = item_idx + 1;
ol_quantity = in_newword->in_item[item_idx].s_OL_QUANTITY;
ol_amount = newword->item[item_idx].s_OL_AMOUNT;
iol_amount = ol_amount * 100.0;

// Previous lines moved below UPDATE for clarity//>@d000515dje

/* set up row for multi-row insert into order_line */
supply_w_idA[order_line_rows] = supply_w_id;
ol_quantityA[order_line_rows] = ol_quantity;
iol_amountA[order_line_rows] = iol_amount;
ol_lnA[order_line_rows] = ol_ln;
ol_i_idA[order_line_rows] = ol_i_id;
order_line_rows++;

#ifdef ACID_TEST
    if (item_cnt < OLITEMS) id0 = in_newword->in_item[item_cnt].s_OL_I_ID;
#endif
} /* end for (item_cnt = 0; item_cnt < OLITEMS); */
}

/* insert rows into order_line table */
switch (order_line_rows) {
case 0:
    break;
case 1:
    EXEC SQL INSERT INTO order_line VALUES
        (:o_id, :d_id, :w_id, :ol_ln0, :ol_i_id0,
         :supply_w_id0, 0,
         :ol_quantity0, :iol_amount0, :dist0);
    break;
case 2:
    EXEC SQL INSERT INTO order_line VALUES
        (:o_id, :d_id, :w_id, :ol_ln0, :ol_i_id0,
         :supply_w_id0, 0,
         :ol_quantity0, :iol_amount0, :dist0),
        (:o_id, :d_id, :w_id, :ol_ln1, :ol_i_id1,
         :supply_w_id1, 0,
         :ol_quantity1, :iol_amount1, :dist1);
    break;
case 3:
    EXEC SQL INSERT INTO order_line VALUES
        (:o_id, :d_id, :w_id, :ol_ln0, :ol_i_id0,
         :supply_w_id0, 0,
         :ol_quantity0, :iol_amount0, :dist0),
        (:o_id, :d_id, :w_id, :ol_ln1, :ol_i_id1,
         :supply_w_id1, 0,
         :ol_quantity1, :iol_amount1, :dist1),
        (:o_id, :d_id, :w_id, :ol_ln2, :ol_i_id2,
         :supply_w_id2, 0,
         :ol_quantity2, :iol_amount2, :dist2);
    break;
case 4:
    EXEC SQL INSERT INTO order_line VALUES
        (:o_id, :d_id, :w_id, :ol_ln0, :ol_i_id0,
         :supply_w_id0, 0,
         :ol_quantity0, :iol_amount0, :dist0),
        (:o_id, :d_id, :w_id, :ol_ln1, :ol_i_id1,
         :supply_w_id1, 0,
         :ol_quantity1, :iol_amount1, :dist1),
        (:o_id, :d_id, :w_id, :ol_ln2, :ol_i_id2,
         :supply_w_id2, 0,
         :ol_quantity2, :iol_amount2, :dist2),
        (:o_id, :d_id, :w_id, :ol_ln3, :ol_i_id3,
         :supply_w_id3, 0,
         :ol_quantity3, :iol_amount3, :dist3);
    break;
case 5:
    EXEC SQL INSERT INTO order_line VALUES
        (:o_id, :d_id, :w_id, :ol_ln0, :ol_i_id0,

```



```

:supply_w_id1,0,
:ol_quantity1,:iol_amount1,:dist1),
(:o_id,:d_id,:w_id,:ol_ln2,:ol_i_id2,
:supply_w_id2,0,
:ol_quantity2,:iol_amount2,:dist2),
(:o_id,:d_id,:w_id,:ol_ln3,:ol_i_id3,
:supply_w_id3,0,
:ol_quantity3,:iol_amount3,:dist3),
(:o_id,:d_id,:w_id,:ol_ln4,:ol_i_id4,
:supply_w_id4,0,
:ol_quantity4,:iol_amount4,:dist4),
(:o_id,:d_id,:w_id,:ol_ln5,:ol_i_id5,
:supply_w_id5,0,
:ol_quantity5,:iol_amount5,:dist5),
(:o_id,:d_id,:w_id,:ol_ln6,:ol_i_id6,
:supply_w_id6,0,
:ol_quantity6,:iol_amount6,:dist6),
(:o_id,:d_id,:w_id,:ol_ln7,:ol_i_id7,
:supply_w_id7,0,
:ol_quantity7,:iol_amount7,:dist7),
(:o_id,:d_id,:w_id,:ol_ln8,:ol_i_id8,
:supply_w_id8,0,
:ol_quantity8,:iol_amount8,:dist8),
(:o_id,:d_id,:w_id,:ol_ln9,:ol_i_id9,
:supply_w_id9,0,
:ol_quantity9,:iol_amount9,:dist9),
(:o_id,:d_id,:w_id,:ol_ln10,:ol_i_id10,
:supply_w_id10,0,
:ol_quantity10,:iol_amount10,:dist10);
break;
case 12:
EXEC SQL INSERT INTO order_line VALUES
(:o_id,:d_id,:w_id,:ol_ln0,:ol_i_id0,
:supply_w_id0,0,
:ol_quantity0,:iol_amount0,:dist0),
(:o_id,:d_id,:w_id,:ol_ln1,:ol_i_id1,
:supply_w_id1,0,
:ol_quantity1,:iol_amount1,:dist1),
(:o_id,:d_id,:w_id,:ol_ln2,:ol_i_id2,
:supply_w_id2,0,
:ol_quantity2,:iol_amount2,:dist2),
(:o_id,:d_id,:w_id,:ol_ln3,:ol_i_id3,
:supply_w_id3,0,
:ol_quantity3,:iol_amount3,:dist3),
(:o_id,:d_id,:w_id,:ol_ln4,:ol_i_id4,
:supply_w_id4,0,
:ol_quantity4,:iol_amount4,:dist4),
(:o_id,:d_id,:w_id,:ol_ln5,:ol_i_id5,
:supply_w_id5,0,
:ol_quantity5,:iol_amount5,:dist5),
(:o_id,:d_id,:w_id,:ol_ln6,:ol_i_id6,
:supply_w_id6,0,
:ol_quantity6,:iol_amount6,:dist6),
(:o_id,:d_id,:w_id,:ol_ln7,:ol_i_id7,
:supply_w_id7,0,
:ol_quantity7,:iol_amount7,:dist7),
(:o_id,:d_id,:w_id,:ol_ln8,:ol_i_id8,
:supply_w_id8,0,
:ol_quantity8,:iol_amount8,:dist8),
(:o_id,:d_id,:w_id,:ol_ln9,:ol_i_id9,
:supply_w_id9,0,
:ol_quantity9,:iol_amount9,:dist9),
(:o_id,:d_id,:w_id,:ol_ln10,:ol_i_id10,
:supply_w_id10,0,
:ol_quantity10,:iol_amount10,:dist10),
(:o_id,:d_id,:w_id,:ol_ln11,:ol_i_id11,
:supply_w_id11,0,
:ol_quantity11,:iol_amount11,:dist11);
break;
case 13:
EXEC SQL INSERT INTO order_line VALUES
(:o_id,:d_id,:w_id,:ol_ln0,:ol_i_id0,
:supply_w_id0,0,
:ol_quantity0,:iol_amount0,:dist0),
(:o_id,:d_id,:w_id,:ol_ln1,:ol_i_id1,
:supply_w_id1,0,
:ol_quantity1,:iol_amount1,:dist1),

```

```

(:o_id,:d_id,:w_id,:ol_ln2,:ol_i_id2,
:supply_w_id2,0,
:ol_quantity2,:iol_amount2,:dist2),
(:o_id,:d_id,:w_id,:ol_ln3,:ol_i_id3,
:supply_w_id3,0,
:ol_quantity3,:iol_amount3,:dist3),
(:o_id,:d_id,:w_id,:ol_ln4,:ol_i_id4,
:supply_w_id4,0,
:ol_quantity4,:iol_amount4,:dist4),
(:o_id,:d_id,:w_id,:ol_ln5,:ol_i_id5,
:supply_w_id5,0,
:ol_quantity5,:iol_amount5,:dist5),
(:o_id,:d_id,:w_id,:ol_ln6,:ol_i_id6,
:supply_w_id6,0,
:ol_quantity6,:iol_amount6,:dist6),
(:o_id,:d_id,:w_id,:ol_ln7,:ol_i_id7,
:supply_w_id7,0,
:ol_quantity7,:iol_amount7,:dist7),
(:o_id,:d_id,:w_id,:ol_ln8,:ol_i_id8,
:supply_w_id8,0,
:ol_quantity8,:iol_amount8,:dist8),
(:o_id,:d_id,:w_id,:ol_ln9,:ol_i_id9,
:supply_w_id9,0,
:ol_quantity9,:iol_amount9,:dist9),
(:o_id,:d_id,:w_id,:ol_ln10,:ol_i_id10,
:supply_w_id10,0,
:ol_quantity10,:iol_amount10,:dist10),
(:o_id,:d_id,:w_id,:ol_ln11,:ol_i_id11,
:supply_w_id11,0,
:ol_quantity11,:iol_amount11,:dist11),
(:o_id,:d_id,:w_id,:ol_ln12,:ol_i_id12,
:supply_w_id12,0,
:ol_quantity12,:iol_amount12,:dist12);
break;
case 14:
EXEC SQL INSERT INTO order_line VALUES
(:o_id,:d_id,:w_id,:ol_ln0,:ol_i_id0,
:supply_w_id0,0,
:ol_quantity0,:iol_amount0,:dist0),
(:o_id,:d_id,:w_id,:ol_ln1,:ol_i_id1,
:supply_w_id1,0,
:ol_quantity1,:iol_amount1,:dist1),
(:o_id,:d_id,:w_id,:ol_ln2,:ol_i_id2,
:supply_w_id2,0,
:ol_quantity2,:iol_amount2,:dist2),
(:o_id,:d_id,:w_id,:ol_ln3,:ol_i_id3,
:supply_w_id3,0,
:ol_quantity3,:iol_amount3,:dist3),
(:o_id,:d_id,:w_id,:ol_ln4,:ol_i_id4,
:supply_w_id4,0,
:ol_quantity4,:iol_amount4,:dist4),
(:o_id,:d_id,:w_id,:ol_ln5,:ol_i_id5,
:supply_w_id5,0,
:ol_quantity5,:iol_amount5,:dist5),
(:o_id,:d_id,:w_id,:ol_ln6,:ol_i_id6,
:supply_w_id6,0,
:ol_quantity6,:iol_amount6,:dist6),
(:o_id,:d_id,:w_id,:ol_ln7,:ol_i_id7,
:supply_w_id7,0,
:ol_quantity7,:iol_amount7,:dist7),
(:o_id,:d_id,:w_id,:ol_ln8,:ol_i_id8,
:supply_w_id8,0,
:ol_quantity8,:iol_amount8,:dist8),
(:o_id,:d_id,:w_id,:ol_ln9,:ol_i_id9,
:supply_w_id9,0,
:ol_quantity9,:iol_amount9,:dist9),
(:o_id,:d_id,:w_id,:ol_ln10,:ol_i_id10,
:supply_w_id10,0,
:ol_quantity10,:iol_amount10,:dist10),
(:o_id,:d_id,:w_id,:ol_ln11,:ol_i_id11,
:supply_w_id11,0,
:ol_quantity11,:iol_amount11,:dist11),
(:o_id,:d_id,:w_id,:ol_ln12,:ol_i_id12,
:supply_w_id12,0,
:ol_quantity12,:iol_amount12,:dist12),
(:o_id,:d_id,:w_id,:ol_ln13,:ol_i_id13,
:supply_w_id13,0,
:ol_quantity13,:iol_amount13,:dist13);

```

```

break;
case 15:
EXEC SQL INSERT INTO order_line VALUES
(:o_id, :d_id, :w_id, :ol_ln0, :ol_id0,
:supply_w_id0, 0,
:ol_quantity0, :iol_amount0, :dist0),
(:o_id, :d_id, :w_id, :ol_ln1, :ol_id1,
:supply_w_id1, 0,
:ol_quantity1, :iol_amount1, :dist1),
(:o_id, :d_id, :w_id, :ol_ln2, :ol_id2,
:supply_w_id2, 0,
:ol_quantity2, :iol_amount2, :dist2),
(:o_id, :d_id, :w_id, :ol_ln3, :ol_id3,
:supply_w_id3, 0,
:ol_quantity3, :iol_amount3, :dist3),
(:o_id, :d_id, :w_id, :ol_ln4, :ol_id4,
:supply_w_id4, 0,
:ol_quantity4, :iol_amount4, :dist4),
(:o_id, :d_id, :w_id, :ol_ln5, :ol_id5,
:supply_w_id5, 0,
:ol_quantity5, :iol_amount5, :dist5),
(:o_id, :d_id, :w_id, :ol_ln6, :ol_id6,
:supply_w_id6, 0,
:ol_quantity6, :iol_amount6, :dist6),
(:o_id, :d_id, :w_id, :ol_ln7, :ol_id7,
:supply_w_id7, 0,
:ol_quantity7, :iol_amount7, :dist7),
(:o_id, :d_id, :w_id, :ol_ln8, :ol_id8,
:supply_w_id8, 0,
:ol_quantity8, :iol_amount8, :dist8),
(:o_id, :d_id, :w_id, :ol_ln9, :ol_id9,
:supply_w_id9, 0,
:ol_quantity9, :iol_amount9, :dist9),
(:o_id, :d_id, :w_id, :ol_ln10, :ol_id10,
:supply_w_id10, 0,
:ol_quantity10, :iol_amount10, :dist10),
(:o_id, :d_id, :w_id, :ol_ln11, :ol_id11,
:supply_w_id11, 0,
:ol_quantity11, :iol_amount11, :dist11),
(:o_id, :d_id, :w_id, :ol_ln12, :ol_id12,
:supply_w_id12, 0,
:ol_quantity12, :iol_amount12, :dist12),
(:o_id, :d_id, :w_id, :ol_ln13, :ol_id13,
:supply_w_id13, 0,
:ol_quantity13, :iol_amount13, :dist13),
(:o_id, :d_id, :w_id, :ol_ln14, :ol_id14,
:supply_w_id14, 0,
:ol_quantity14, :iol_amount14, :dist14);
break;
default:
    nsqerror("default switch on order_line insert", 550);
    goto ferror;
} /* end of switch on number of order_line rows */

if (sqlca.sqlcode != 0) {
    char tempstr[500];

    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(NEWORD_SQL, "INSERT INTO order_line", 555, &sqlca);

    sprintf(tempstr, "order_line_rows= %d, :o_id=%d, :d_id=%d, :w_id=%d",
order_line_rows, o_id, d_id, w_id);
    { int Y;
//tempstr[0] = '\0';
sprintf(tempstr+strlen(tempstr), "duplicate_flag=%d\n", in_neword->duplicate_items);
for (Y=0; Y<order_line_rows; ++Y)
    sprintf(tempstr+strlen(tempstr), "w_id=%d d_id=%d o_id=%d ol_num=%d\n",
w_id, d_id, o_id, ol_lnA[Y]);
        nsqerror(tempstr, sqlca.sqlcode);
        goto ferror;
    }

    if (bad_item == 'y') {
        neword->s_transtatus = INVALID_ITEM;
        rc = -1;
    }

#ifdef ACID_TEST
EXEC SQL BEGIN COMPOUND NOT ATOMIC STATIC

```

```

INSERT INTO orders
VALUES (:o_id, :o_c_id, :d_id, :w_id, :o_entry_d, 0, :OLITEMS, :allLocal);

INSERT INTO new_order VALUES (:o_id, :d_id, :w_id);

SELECT w_tax, c_discount, c_last, c_credit
INTO :ware_tax, :c_discount, :c_last, :c_credit
FROM warehouse, customer
WHERE w_id = :w_id
AND c_id = :c_id
AND c_w_id = :w_id
AND c_d_id = :d_id;

END COMPOUND;
if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto mexit;
    switch (sqlca.sqlerrd[LASTCODE]) {
        case 0:
            sqlerror(NEWORD_SQL, "insert into ORDERS", 593, &sqlca);
            goto ferror;
        case 1:
            sqlerror(NEWORD_SQL, "insert into NEW_ORDER", 601, &sqlca);
            goto ferror;
        case 2:
            sqlerror(NEWORD_SQL, "SELECT WAREHOUSE & CUSTOMER", 609,
&sqlca);
            goto ferror;
        default:
            sqlerror(NEWORD_SQL, "default case of compound sql", 617, &sqlca);
            goto ferror;
    }
}
#else
    gettimeofday(&tv, &tz);
    audittime = acidtime(tv.tv_sec, tv.tv_usec);
    fprintf(out, "NEWORD PID : %d, wait before rollback time: %u\n",
        mypid, audittime);
    sleep(60);
#endif

EXEC SQL rollback work ;
if (sqlca.sqlcode != 0) {
    sqlerror(NEWORD_SQL, "rollback", 636, &sqlca);
    goto ferror;
}

#ifdef ACID_TEST
    gettimeofday(&tv, &tz);
    audittime = acidtime(tv.tv_sec, tv.tv_usec);
    fprintf(out, "NEWORD PID: %d, after rolled back time: %u\n",
        mypid, audittime);
    fprintf(out, "W_ID: %d \t D_ID: %d \t O_ID: %d \t D_NEXT_O_ID: %d\n ",
        in_neword->s_W_ID, in_neword->s_D_ID, neword->s_O_ID, next_o_id);
    fprintf(out, "\n-----END of NEWORDER PID: %d ----- \n\n", mypid);
    fclose(out);
#endif

    goto mexit;
} else {

#ifdef ACID_TEST
    gettimeofday(&tv, &tz);
    audittime = acidtime(tv.tv_sec, tv.tv_usec);
    fprintf(out, "NEWORD PID : %d, wait before commit time: %u\n",
        mypid, audittime);

    if (c_id != 123 )
        sleep(60);

EXEC SQL COMMIT;
gettimeofday(&tv, &tz);
audittime = acidtime(tv.tv_sec, tv.tv_usec);
fprintf(out, "NEWORD PID: %d, commit transaction time: %u\n",
    mypid, audittime);
if (sqlca.sqlcode != 0) {
    sqlerror(NEWORD_SQL, "COMMIT", 564, &sqlca);

```

```

        goto ferror;
    }
EXEC SQL OPEN dist_cur;

if (sqlca.sqlcode != 0) {
    sqlerror(NEWORD_SQL, "OPEN dis_cur",740, &sqlca);
    goto ferror;
}
EXEC SQL
    FETCH dist_cur INTO
    :dist_tax, :next_o_id;

if (sqlca.sqlcode != 0) {
    sqlerror(NEWORD_SQL, "FETCH dist_cur",752, &sqlca);
    goto ferror;
}
fprintf(out, "W_ID: %d\t D_ID: %d\t O_ID: %d\t D_NEXT_O_ID: %d\n ",
    in_neword->s_W_ID, in_neword->s_D_ID, neword->s_O_ID, next_o_id);
fprintf(out, "\n-----END of NEWORDER PID: %d ----- \n\n", getpid());
fclose(out);
EXEC SQL COMMIT;
if (sqlca.sqlcode != 0) {
    sqlerror(NEWORD_SQL, "COMMIT",564, &sqlca);
    goto ferror;
}

#else          /* not ACID_TEST */

/*-----*/
/* Read WAREHOUSE and CUSTOMER      */
/*-----*/

EXEC SQL BEGIN COMPOUND NOT ATOMIC STATIC

    INSERT INTO orders
    VALUES (:o_id, :o_c_id, :d_id, :w_id, :o_entry_d, 0, :OLITEMS, :allLocal);

    INSERT INTO new_order
    VALUES (:o_id, :d_id, :w_id);

    SELECT w_tax, c_discount, c_last, c_credit
    INTO :ware_tax, :c_discount, :c_last, :c_credit
    FROM warehouse, customer
    WHERE w_id = :w_id
    AND   c_id = :c_id
    AND   c_w_id = :w_id
    AND   c_d_id = :d_id;

END COMPOUND;

if (sqlca.sqlcode != 0) {
    switch (sqlca.sqlerrd[LASTCODE]) {
    case 0:
        if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
        sqlerror(NEWORD_SQL, "insert into ORDERS",789, &sqlca);
        goto ferror;
    case 1:
        if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
        sqlerror(NEWORD_SQL, "insert into NEW_ORDER",797, &sqlca);
        goto ferror;
    case 2:
        if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
        sqlerror(NEWORD_SQL, "SELECT WAREHOUSE & CUSTOMER",805,
&sqlca);
        goto ferror;
    default:
        if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
        sqlerror(NEWORD_SQL, "default case of compound sql",821, &sqlca);
        goto ferror;
    }
}
else
{
    EXEC SQL COMMIT;
    if (sqlca.sqlcode != 0 )
    {
        if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
        sqlerror(NEWORD_SQL, "COMMIT",813, &sqlca);
    }
}

```

```

        goto ferror;
    }
}

#endif          /* of ifdef ACID_TEST */

#ifdef DB2_TIME_STRING
//    lt = localtime((time_t*)&curr_tmstamp);          /* sas02 */
//    sprintf(neword->s_O_ENTRY_D, "%04d-%02d-%02d-%02d-%02d", /* sas02
*/
//        lt->tm_year+1900, lt->tm_mon+1, lt->tm_mday,
//        lt->tm_hour,   lt->tm_min,  lt->tm_sec);
#else
//    neword->s_O_ENTRY_D_time = curr_tmstamp;
#endif
neword->s_total_amount = neword->s_total_amount *
    (1 - neword->s_C_DISCOUNT) * (1 + ware_tax + dist_tax);
}

/*-----*/
/* Return to client          */
/*-----*/
neword->s_transtatus = TRAN_OK;
rc = 0;
goto mexit;

ferror:
neword->s_transtatus = FATAL_SQLERROR;
rc = -1;
EXEC SQL rollback work;
if (sqlca.sqlcode != 0)
    sqlerror(NEWORD_SQL, "ROLLBACK FAILED", 666, &sqlca);
new_debug(neword, in_neword, "error code");

mexit:
neword->deadlocks = retry_count;

if ( sqlca.sqlcode < 0 )
    rc = SQLZ_DISCONNECT_PROC;
else
    rc = SQLZ_HOLD_PROC;

#ifdef DEBUGIT
    new_debug(neword, in_neword, "Server prior to return");
#endif
return(rc);
}

/*-----*/
/* non-sql error              */
/*-----*/

void static nsqerror(char *msg, int ptat)
{
    FILE *err_fp;
    char  err_fn[25] = DB2OUT "neword.err.out";

    err_fp = fopen(err_fn, "a+");
    fprintf(err_fp, "NEWORD: %2d %s\n", ptat, msg);
    fclose(err_fp);
}

/*
** A little function to search for the string "ORIGINAL" given a string and
** it's length
*/
static unsigned char skip[256] = {8,8,8,8,8,8,8,8, /*0-9*/
    8,8,8,8,8,8,8,8, /*10-19*/
    8,8,8,8,8,8,8,8, /*20-29*/
    8,8,8,8,8,8,8,8, /*30-39*/
    8,8,8,8,8,8,8,8, /*40-49*/
    8,8,8,8,8,8,8,8, /*50-59*/
    8,8,8,8,8,1,8,8,8, /*60-69*/
    8,4,8,3,8,8,0,8,2,7, /*70-79*/
    8,8,6,8,8,8,8,8,8, /*80-89*/
    8,8,8,8,8,8,8,8,8, /*90-99*/
    8,8,8,8,8,8,8,8,8, /*100-109*/

```

```

8,8,8,8,8,8,8,8, /*110-119*/
8,8,8,8,8,8,8,8, /*120-129*/
8,8,8,8,8,8,8,8, /*130-139*/
8,8,8,8,8,8,8,8, /*140-149*/
8,8,8,8,8,8,8,8, /*150-159*/
8,8,8,8,8,8,8,8, /*160-169*/
8,8,8,8,8,8,8,8, /*170-179*/
8,8,8,8,8,8,8,8, /*180-189*/
8,8,8,8,8,8,8,8, /*190-199*/
8,8,8,8,8,8,8,8, /*200-209*/
8,8,8,8,8,8,8,8, /*210-219*/
8,8,8,8,8,8,8,8, /*220-229*/
8,8,8,8,8,8,8,8, /*230-239*/
8,8,8,8,8,8,8,8, /*240-249*/
8,8,8,8,8,8,8,8, /*250-254*/

static int is_ORIGINAL( char *string, short length )
{
    char      *cur_string;
    char      *end_string;
    unsigned char *skips;
    int        skip_dist;
    int        result = 0;

    cur_string = string+7;
    end_string = string + length;
    skips = skip;

    while (cur_string < end_string)
    {
        skip_dist = skips[*cur_string];
        while ( (skip_dist > 0) && (cur_string < end_string) )
        {
            skip_dist = skips[*cur_string += skip_dist];
        }

        if (cur_string >= end_string)
            goto exit;

        if ( cur_string[-4] != 'G' )
            goto noMatch;

        if ( memcmp( cur_string-7, "ORIGINAL", 8 ) == 0 )
        {
            result = 1;
            goto exit;
        }
    }
noMatch:
    cur_string += 8;
} /* end while */

exit:
    return( result );
}

```

ord.sqc

```

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 ord.sqc - Implement the order status transaction.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3
3 Source File Name: engn/perf/tpcckit/Src.Srv/ord.sqc, perf, db2nt_v3,
c980410
3 SCCS Id. Number : 4/10/98 1.5
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/01 12:07:53
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#include "db2tpcc.h"

#ifdef DARIVERSION

```

```

EXEC SQL INCLUDE SQLCA;

#else
typedef struct sqlca Sqlca;
#define sqlca (*pca)
#endif

#define MAXCLAST 1000

/*-----*/
/*      ORDDSTAT Standard Service      */
/*-----*/

#ifdef DARIVERSION
int daricall ords (void *reserved1,
                  struct sqllda *pin_sqllda,
                  struct sqllda *pout_sqllda,
                  Sqlca *pca)
#else
int ords (struct in_ordstat_struct *in_ordstat,
          struct out_ordstat_struct *ordstat)
#endif
{

#ifdef DARIVERSION
    struct out_ordstat_struct *ordstat;
    struct in_ordstat_struct *in_ordstat;
#endif

    struct tm *lt; /* sas02 - needed for localtime() */

    EXEC SQL BEGIN DECLARE SECTION;
    long tmp_c_id;
    long w_id; /* change from short to long @000516AYL */
    short d_id;
    short o_carrier_id, ol_quantity;
    long ol_supply_w_id; /* change from short to long @000516AYL */
    // long o_entry_d;
    sqlint64 o_entry_d;
    // long ol_delivery_d;
    sqlint64 ol_delivery_d;

    long iol_amount;
    long ol_i_id, o_id;
    EXEC SQL END DECLARE SECTION;

    double ol_amount;
    int i, rc;
    int retry_count = -1;
    long c_id[MAXCLAST];

    {
        EXEC SQL BEGIN DECLARE SECTION;
        short o_c_id;
        char c_first[17], c_middle[3];
        char c_last_input[17], c_last[17];
        double c_balance;
        EXEC SQL END DECLARE SECTION;

#define o_c_id      ordstat->s_C_ID
#define c_first     ordstat->s_C_FIRST
#define c_middle    ordstat->s_C_MIDDLE
#define c_last      ordstat->s_C_LAST
#define c_last_input in_ordstat->s_C_LAST
#define c_balance   ordstat->s_C_BALANCE
    }

    EXEC SQL DECLARE read_clast_cur CURSOR FOR
    SELECT c_id
    FROM customer
    WHERE c_last = :c_last_input
    AND c_w_id = :w_id
    AND c_d_id = :d_id
    ORDER BY c_first
    FOR FETCH ONLY;

    EXEC SQL DECLARE read_order_cur CURSOR FOR
    SELECT o_id, o_entry_d, o_carrier_id
    FROM orders
    WHERE o_w_id = :w_id AND o_d_id = :d_id AND o_c_id = :o_c_id

```

```

ORDER BY o_id DESC FOR FETCH ONLY;

EXEC SQL DECLARE read_orderline_cur CURSOR FOR
  SELECT ol_i_id, ol_supply_w_id, ol_quantity, ol_amount, ol_delivery_d
  FROM order_line
  WHERE ol_w_id = :w_id AND ol_d_id = :d_id AND ol_o_id = :o_id FOR
  FETCH ONLY;

#ifdef ACID_TEST
  printf("\n");
  print_date();
  printf("\n");
#endif

#ifdef DARIVERSION
  /* Retrieve the 'ordstat' structure from the SQLDA */
  in_ordstat = (struct in_ordstat_struct *)pin_sqlda->sqlvar[0].sqldata;
  /* sas05 */
  ordstat = (struct out_ordstat_struct *)pout_sqlda->sqlvar[0].sqldata;
  /* sas05 */
#endif

  ordstat->s_C_ID = in_ordstat->s_C_ID;
  /* memcpy(ordstat->s_C_LAST, in_ordstat->s_C_LAST,
  sizeof(ordstat->s_C_LAST)); */

#ifdef DEBUGIT
  ordstat->s_ol_cnt = 0; // GSM
  ord_debug(ordstat, in_ordstat, "Server upon entry");
#endif

  w_id = in_ordstat->s_W_ID;
  d_id = in_ordstat->s_D_ID;

retry_tran:
  retry_count++;

  /*-----*/
  /* Read CUSTOMER using C_LAST */
  /*-----*/
  if (ordstat->s_C_ID == 0) {
    struct sqlda da;

    da.sqld = da.sqln = 1;
    da.sqlvar[0].sqltype = SQL_TYP_INTEGER;
    da.sqlvar[0].sqllen = sizeof(tmp_c_id);
    da.sqlvar[0].sqldata = (void*)&tmp_c_id;

    EXEC SQL OPEN read_clast_cur;
    if (sqlca.sqlcode != 0) {
      if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
      sqlerror(ORDSTAT_SQL, "OPEN CURSOR read_clast_cur", 96, &sqlca);
      goto ferror;
    }

    i = 0;
    do {
      EXEC SQL FETCH read_clast_cur
        USING DESCRIPTOR :da;
      if (sqlca.sqlcode != 0) {
        if (sqlca.sqlcode < 0 || (sqlca.sqlcode == 100 && i == 0)) {
          if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
          sqlerror(ORDSTAT_SQL, "FETCH CURSOR read_clast_cur", 107,
          &sqlca);
          goto ferror;
        }
        } else {
          c_id[i] = tmp_c_id;
          i++;
        }
      } while (sqlca.sqlcode == 0);

      i = (int)((i+1)/2) - 1;
      ordstat->s_C_ID = c_id[i];
    } /* end if (ordstat->s_C_ID == 0) */

    /*-----*/

```

```

/* Read CUSTOMER using C_ID */
/*-----*/

tmp_c_id = ordstat->s_C_ID;

EXEC SQL SELECT c_first, c_middle, c_last, c_balance
  INTO :c_first, :c_middle, :c_last, :c_balance
  FROM customer
  WHERE c_id = :tmp_c_id
  AND c_w_id = :w_id
  AND c_d_id = :d_id;

if (sqlca.sqlcode != 0) {
  if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
  sqlerror(ORDSTAT_SQL, "SELECT customer via c_id", 140, &sqlca);
  goto ferror;
}

/*-----*/
/* Read newest ORDER */
/*-----*/

EXEC SQL OPEN read_order_cur;
if (sqlca.sqlcode != 0) {
  if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
  sqlerror(ORDSTAT_SQL, "OPEN CURSOR read_order_cur", 156, &sqlca);
  goto ferror;
}

EXEC SQL FETCH read_order_cur
  INTO :o_id, :o_entry_d, :o_carrier_id;
if (sqlca.sqlcode != 0) {
  if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
  sqlerror(ORDSTAT_SQL, "FETCH CURSOR read_order_cur", 171, &sqlca);
  goto ferror;
}

#ifdef ACID_TEST
  if ((in_ordstat->s_ACID & ACID_ISO_9)) {
    printf("\nFirst read of orders o_id:\n\n", o_id);
    printf("Timestamp after first read of orders o_id and before delay:\n");
    print_date();
    acid_delay(20);

    EXEC SQL CLOSE read_order_cur;
    if (sqlca.sqlcode != 0) {
      if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
      sqlerror(ORDSTAT_SQL, "CLOSE CURSOR read_order_cur", 175, &sqlca);
      goto ferror;
    }

    EXEC SQL OPEN read_order_cur;
    if (sqlca.sqlcode != 0) {
      if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
      sqlerror(ORDSTAT_SQL, "OPEN CURSOR read_order_cur", 180, &sqlca);
      goto ferror;
    }

    EXEC SQL FETCH read_order_cur
      INTO :o_id, :o_entry_d, :o_carrier_id;
    if (sqlca.sqlcode != 0) {
      if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
      sqlerror(ORDSTAT_SQL, "FETCH CURSOR read_order_cur", 186, &sqlca);
      goto ferror;
    }

    printf("\nSecond read of orders o_id:\n\n", o_id);
    printf("Timestamp after second read of orders o_id and before delay:\n");
    print_date();
  }
#endif /* ACID_TEST */

  ordstat->s_O_ID = o_id;

#ifdef DB2_TIME_STRING
  lt = localtime((time_t*)&o_entry_d);
  sprintf(ordstat->s_O_ENTRY_D, "%04d-%02d-%02d.%02d.%02d",
  lt->tm_year+1900, lt->tm_mon+1, lt->tm_mday,

```

```

        lt->tm_hour,    lt->tm_min, lt->tm_sec);
#else
    ordstat->s_O_ENTRY_D_time = o_entry_d;
#endif

    ordstat->s_O_CARRIER_ID = o_carrier_id;

/*-----*/
/* Read ORDER_LINES */
/*-----*/

EXEC SQL OPEN read_orderline_cur;
if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(ORDSTAT_SQL, "OPEN CURSOR read_orderline_cur",194, &sqlca);
    goto ferror;
}

i = 0;
{
    char da_storage[SQLDASIZE(5)];
    struct sqllda *da = (struct sqllda *)da_storage;

    da->sqln = da->sqld = 5;
    da->sqlvar[0].sqltype = SQL_TYP_INTEGER;
    da->sqlvar[0].sqlllen = sizeof(ol_i_id);
    da->sqlvar[0].sqldata = (void*)&ol_i_id;

    da->sqlvar[1].sqltype = SQL_TYP_INTEGER;
    da->sqlvar[1].sqlllen = sizeof(ol_supply_w_id);
    da->sqlvar[1].sqldata = (void*)&ol_supply_w_id;

    da->sqlvar[2].sqltype = SQL_TYP_SMALL;
    da->sqlvar[2].sqlllen = sizeof(ol_quantity);
    da->sqlvar[2].sqldata = (void*)&ol_quantity;

    da->sqlvar[3].sqltype = SQL_TYP_INTEGER;
    da->sqlvar[3].sqlllen = sizeof(ol_amount);
    da->sqlvar[3].sqldata = (void*)&ol_amount;

    da->sqlvar[4].sqltype = SQL_TYP_BIGINT;
    da->sqlvar[4].sqlllen = sizeof(ol_delivery_d);
    da->sqlvar[4].sqldata = (void*)&ol_delivery_d;

    do
    {
        EXEC SQL FETCH read_orderline_cur
            USING DESCRIPTOR :*da;
        if (sqlca.sqlcode != 0) {
            if (sqlca.sqlcode < 0) {
                if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
                sqlerror(ORDSTAT_SQL, "FETCH CURSOR read_orderline_cur",209,
&sqlca);
                goto ferror;
            }
        }
        else
        {
            ol_amount = (double)iol_amount / (double)100.0;
            ordstat->item[i].s_OL_I_ID = ol_i_id;
            ordstat->item[i].s_OL_SUPPLY_W_ID = ol_supply_w_id;
            ordstat->item[i].s_OL_QUANTITY = ol_quantity;
            ordstat->item[i].s_OL_AMOUNT = ol_amount;
#endif DB2_TIME_STRING
            lt = localtime((time_t*)&ol_delivery_d); /*
sas02 */
            sprintf(ordstat->item[i].s_OL_DELIVERY_D, /*
sas02 */
                "%04d-%02d-%02d-%02d.%02d",
                lt->tm_year+1900, lt->tm_mon+1, lt->tm_mday,
                lt->tm_hour,    lt->tm_min,    lt->tm_sec);
#else
            ordstat->item[i].s_OL_DELIVERY_D_time = ol_delivery_d;
#endif
            i++;
        }
    }
    while (sqlca.sqlcode == 0);

```

```

    }

    ordstat->s_ol_cnt = i;

/*-----*/
/* COMMIT transaction */
/*-----*/

#ifdef ACID_TEST
    if ((in_ordstat->s_ACID & (ACID_ISO_1 | ACID_ISO_3)))
        printf("\nTimestampbefore commit of order-status transaction:\n");

    print_date();
    printf("\n");
#endif /* ACID_TEST */

EXEC SQL COMMIT;
if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(ORDSTAT_SQL, "COMMIT",231, &sqlca);
    goto ferror;
}

#ifdef ACID_TEST
    printf("\nTimestampafter commit of order-status transaction:\n");
    print_date();
    printf("\n\nReturnorder-status data to client:\n\n");
#endif

    ordstat->s_transtatus = TRAN_OK;
    rc = 0;
    goto mexit;

ferror:
    rc = -1;
    ordstat->s_transtatus = FATAL_SQLERROR;
    EXEC SQL rollback work;
    if (sqlca.sqlcode != 0)
        sqlerror(ORDSTAT_SQL, "ROLLBACK FAILED", 666, &sqlca);
    ord_debug(ordstat, in_ordstat, "ferror code");

mexit:
    ordstat->deadlocks = retry_count;

    if ( sqlca.sqlcode < 0 )
        rc = SQLZ_DISCONNECT_PROC;
    else
        rc = SQLZ_HOLD_PROC;

#ifdef DEBUGIT
    ord_debug(ordstat, in_ordstat, "Server prior to return");
#endif
    return(rc);
}

```

pay.sqc

```

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 pay.sqc - Implement the payment transaction.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3
3 Source File Name: engn/perf/tpcckit/Src.Srv/pay.sqc, perf, db2nt_v3, c980410
3 SCCS Id. Number : 4/10/98 1.5
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/06 11:04:56
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#include "db2tpcc.h"
#include "sql.h"

#ifdef DARIVERSION

```

```

EXEC SQL INCLUDE SQLCA;
#else
typedef struct sqlca Sqlca;
#define sqlca (*pca)
#endif

#define MAXCLAST 3000
#define BC_LEN 27

/*-----*/
/*      PAYMENT Service      */
/*-----*/
#ifdef DARIVERSION
int daricall pays (void *reserved1,
                  struct sqllda *pin_sqllda,
                  struct sqllda *pout_sqllda,
                  Sqlca *pca)
#else
int pays (struct in_payment_struct *in_payment,
          struct out_payment_struct *payment)
#endif
{
#ifdef DARIVERSION
    struct out_payment_struct *payment;
    struct in_payment_struct *in_payment;      /* sas05 */
#endif

    int  retry_count = -1;

    struct tm *lt;      /* sas02 - needed for localtime() */

    char  c_data[501+BC_LEN];

    EXEC SQL BEGIN DECLARE SECTION;
    short  c_payment_cnt;
    double h_amount;
    double d_ytd,      w_ytd,      c_ytd_payment;
    long   c_id,      tmp_c_id,      ih_amount;
    char   h_data[25], d_name[11];
    char   (*c_data1_in)[250] = (char (*) [250])c_data;
    char   (*c_data2_in)[250] = (char (*) [250])(c_data+250);
    char   (*c_data1_out)[250] = (char (*) [250])(c_data+BC_LEN);
    char   (*c_data2_out)[250] = (char (*) [250])(c_data+BC_LEN+250);
    char   (*w_name)[11];
    long   c_since;
    // long  curr_tmstamp;  /* sas02 */
    sqlnt64 h_date;

    EXEC SQL END DECLARE SECTION;

#ifdef ACID_TEST
    EXEC SQL BEGIN DECLARE SECTION;
    double new_balance;
    EXEC SQL END DECLARE SECTION;
#endif

    long array_c_id[MAXCLAST];
    int len_cdata1, len_cdata2, len_newcdata, tot_len, i;
    int CUROPEN=0, rc;

    {
        EXEC SQL BEGIN DECLARE SECTION;
        long   w_id; /* change from short to long @000516AYL */
        short  d_id;
        short  c_d_id;
        long   c_w_id; /* change from short to long @000516AYL */

        double c_credit_lim, c_discount;
        double c_balance;

        char  w_street_1[21], w_street_2[21];
        char  w_city[21], w_state[3], w_zip[10];
        char  d_street_1[21], d_street_2[21], d_city[21];
        char  d_state[3], d_zip[10], c_first[17];
        char  c_middle[3], c_last[17], c_street_1[21];
        char  c_street_2[21], c_city[21], c_state[3];
    }

```

```

char  c_zip[10],      c_phone[17],      c_credit[3];

// GSM, needed for read_clast_cur
char  in_c_last[17];

EXEC SQL END DECLARE SECTION;

#define w_id      in_payment->s_W_ID
#define d_id      in_payment->s_D_ID

#define c_d_id      in_payment->s_C_D_ID
#define c_w_id      in_payment->s_C_W_ID

#define c_credit_lim  payment->s_C_CREDIT_LIM
#define c_discount    payment->s_C_DISCOUNT
#define c_balance      payment->s_C_BALANCE

// GSM, needed for read_clast_cur
#define in_c_last      in_payment->s_C_LAST

#define c_last      payment->s_C_LAST
#define c_first      payment->s_C_FIRST
#define c_middle      payment->s_C_MIDDLE
#define c_street_1      payment->s_C_STREET_1
#define c_street_2      payment->s_C_STREET_2
#define c_city      payment->s_C_CITY
#define c_state      payment->s_C_STATE
#define c_zip      payment->s_C_ZIP
#define c_phone      payment->s_C_PHONE
#define c_credit      payment->s_C_CREDIT

#define w_street_1      payment->s_W_STREET_1
#define w_street_2      payment->s_W_STREET_2
#define w_city      payment->s_W_CITY
#define w_state      payment->s_W_STATE
#define w_zip      payment->s_W_ZIP

#define d_street_1      payment->s_D_STREET_1
#define d_street_2      payment->s_D_STREET_2
#define d_city      payment->s_D_CITY
#define d_state      payment->s_D_STATE
#define d_zip      payment->s_D_ZIP
}

EXEC SQL DECLARE read_clast_cur CURSOR FOR
SELECT c_id
FROM customer
WHERE c_last = :in_c_last
AND c_w_id = :c_w_id
AND c_d_id = :c_d_id
ORDER BY c_first FOR FETCH ONLY;

#ifdef ACID_TEST
    printf("\n");
    print_date();
    printf("\n");
#endif

#ifdef DARIVERSION
    /* Retrieve the 'payment' structure from theSQLDA */
    in_payment = (struct in_payment_struct *)pin_sqllda->sqlvar[0].sqllda;
    payment = (struct out_payment_struct *)pout_sqllda->sqlvar[0].sqllda;
#endif

#ifdef DEBUGIT
    pay_debug(payment, in_payment, "Server upon entry");
#endif

    // time((time_t *)&curr_tmstamp);

    //ifdef DB2_TIME_STRING
    // lt = localtime((time_t *)&curr_tmstamp);
    // sprintf(payment->s_H_DATE, "%04d-%02d-%02d.%02d.%02d",
    //         lt->tm_year+1900, lt->tm_mon+1, lt->tm_mday,
    //         lt->tm_hour, lt->tm_min, lt->tm_sec);
    //else
    // payment->s_H_DATE_time = curr_tmstamp;
    //endif

```

```

h_amount = in_payment->s_H_AMOUNT;
ih_amount = h_amount * 100.0;
h_date = in_payment->s_H_DATE_time;

c_id = in_payment->s_C_ID;

h_data[0] = '\0';
w_name = (char (*)(11)) &h_data;

retry_tran:
retry_count++;

if (c_id == 0)
{
//
// Payment being done by customer last name, use middle customer id
//

struct sqllda da;

da.sqld = da.sqln = 1;
da.sqlvar[0].sqltype = SQL_TYP_INTEGER;
da.sqlvar[0].sqllen = sizeof(tmp_c_id);
da.sqlvar[0].sqldata = (void*)&tmp_c_id;

EXEC SQL OPEN read_clast_cur;
if (sqlca.sqlcode != 0) {
if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
sqlerror(PAYMENT_SQL, "OPEN read_clast_cur", 138, &sqlca);
goto ferror;
}

i = 0;
do
{
EXEC SQL FETCH read_clast_cur
USING DESCRIPTOR :da;
if (sqlca.sqlcode != 0)
{
if (sqlca.sqlcode < 0 || (sqlca.sqlcode == 100 && i == 0))
{
if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
sqlerror(PAYMENT_SQL, "FETCH read_clast_cur", 156, &sqlca);
goto ferror;
}
}
else
{
array_c_id[i++] = tmp_c_id;
}
}
while (sqlca.sqlcode == 0);

#if 0
EXEC SQL CLOSE read_clast_cur;

if (sqlca.sqlcode != 0) {
sqlerror(PAYMENT_SQL, "CLOSE read_clast_cur", 251, &sqlca);
goto ferror;
}
#endif

i = (int)((i+1)/2) - 1;
c_id = array_c_id[i];

EXEC SQL SELECT c_first, c_middle, c_last, c_street_1, c_street_2, c_city,
c_state, c_zip, c_phone, c_since, c_credit, c_credit_lim,
c_discount, c_balance, c_ytd_payment, c_payment_cnt
INTO :c_first, :c_middle, :c_last, :c_street_1, :c_street_2, :c_city,
:c_state, :c_zip, :c_phone, :c_since, :c_credit, :c_credit_lim,
:c_discount, :c_balance, :c_ytd_payment, :c_payment_cnt
FROM customer
WHERE c_id = :c_id
AND c_w_id = :c_w_id
AND c_d_id = :c_d_id;

```

```

if (sqlca.sqlcode != 0) {
if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
sqlerror(PAYMENT_SQL, "FETCH INTO", 274, &sqlca);
goto ferror;
}

#ifdef DB2_TIME_STRING
lt = localtime((time_t*)&c_since);
sprintf(payment->s_C_SINCE, "%04d-%02d-%02d.%02d.%02d",
lt->tm_year+1900, lt->tm_mon+1, lt->tm_mday,
lt->tm_hour, lt->tm_min, lt->tm_sec);
#else
payment->s_C_SINCE_time = c_since;
#endif

#ifdef ACID_TEST
printf("\nValue of c_balance before customer update:\n%f\n\n", c_balance);
#endif

c_balance -= h_amount;

// GSM, fix brought back from TPM100K
payment->s_C_ID = c_id;

c_ytd_payment = c_ytd_payment + h_amount;
c_payment_cnt = c_payment_cnt + 1;

if (c_credit[0] == 'B' && c_credit[1] == 'C')
{
// Bad credit, 10% of customers

EXEC SQL SELECT c_data1, c_data2
INTO :c_data1_out, :c_data2_out
FROM customer
WHERE c_id = :c_id
AND c_w_id = :c_w_id
AND c_d_id = :c_d_id;
if (sqlca.sqlcode != 0) {
if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
sqlerror(PAYMENT_SQL, "SELECT c_data FROM customer", 280, &sqlca);
goto ferror;
}

sprintf(c_data, "%5d,%2d,%3d,%2d,%2d,%7.2f", // BC_LEN-1 chars
c_id, c_d_id, c_w_id, d_id, w_id, h_amount);
c_data[BC_LEN - 1] = '\0';

/*-----*/
/* Update BAD CUSTOMER */
/*-----*/

EXEC SQL UPDATE customer
SET c_balance = :c_balance,
c_ytd_payment = :c_ytd_payment,
c_payment_cnt = :c_payment_cnt,
c_data1 = :c_data1_in,
c_data2 = :c_data2_in
WHERE c_id = :c_id
AND c_w_id = :c_w_id
AND c_d_id = :c_d_id;
if (sqlca.sqlcode != 0)
{
if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
sqlerror(PAYMENT_SQL, "UPDATE customer", 314, &sqlca);
goto ferror;
}

// send updated customer data back to client
memcpy(payment->s_C_DATA, c_data, 200);
}
else
{
/*-----*/
/* Update GOOD CUSTOMER */
/*-----*/

EXEC SQL UPDATE customer

```

```

        SET c_balance = :c_balance,
            c_ytd_payment = :c_ytd_payment,
            c_payment_cnt = :c_payment_cnt
        WHERE c_id = :c_id
        AND c_w_id = :c_w_id
        AND c_d_id = :c_d_id;
    if (sqlca.sqlcode != 0) {
        if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
        sqlerror(PAYMENT_SQL, "UPDATE customer", 335, &sqlca);
        goto ferror;
    }
} /* end if bad customer */

#ifdef ACID_TEST
EXEC SQL
    SELECT c_balance
    INTO :new_balance
    FROM customer
    WHERE c_id = :c_id
    AND c_w_id = :c_w_id
    AND c_d_id = :c_d_id;

if (sqlca.sqlcode != 0)
{
    sqlerror(PAYMENT_SQL, "First ACID test check of c_balance", 351, &sqlca);
    goto ferror;
}

printf("\nValue of c_balance after customer update:\n%f\n\n", new_balance);
#endif

/*-----*/
/* Start Compound SQL */
/*-----*/

EXEC SQL BEGIN COMPOUND NOT ATOMIC STATIC

UPDATE district SET d_ytd = d_ytd + :h_amount
WHERE d_id = :d_id AND d_w_id = :w_id;

SELECT d_street_1, d_street_2, d_city, d_state, d_zip, d_name
INTO :d_street_1, :d_street_2, :d_city, :d_state, :d_zip, :d_name
FROM district WHERE d_id = :d_id AND d_w_id = :w_id;

UPDATE warehouse SET w_ytd = w_ytd + :h_amount WHERE w_id = :w_id;

SELECT w_street_1, w_street_2, w_city, w_state, w_zip, w_name
INTO :w_street_1, :w_street_2, :w_city, :w_state, :w_zip, :w_name
FROM warehouse WHERE w_id = :w_id;

END COMPOUND;

if (sqlca.sqlcode != 0)
{
    switch (sqlca.sqlerrd[LASTCODE])
    {
        case 0:
            if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
            sqlerror(PAYMENT_SQL, "UPDATE district", 369, &sqlca);
            goto ferror;
        case 1:
            if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
            sqlerror(PAYMENT_SQL, "SELECT FROM district", 376, &sqlca);
            goto ferror;
        case 2:
            if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
            sqlerror(PAYMENT_SQL, "UPDATE warehouse", 383, &sqlca);
            goto ferror;
        case 3:
            if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
            sqlerror(PAYMENT_SQL, "SELECT FROM warehouse", 390, &sqlca);
            goto ferror;
        default:
            if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
            sqlerror(PAYMENT_SQL, "default case of compound sql", 347, &sqlca);
            goto ferror;
    }
}

```

```

        strcat(h_data, " ");
        strcat(h_data, d_name);

/*-----*/
/* Update history and commit */
/*-----*/

EXEC SQL
    INSERT INTO history
    VALUES (:c_id, :c_d_id, :c_w_id, :d_id, :w_id, :h_date,
            :ih_amount, :h_data);
if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(PAYMENT_SQL, "INSERT INTO history", 457, &sqlca);
    goto ferror;
}

#ifdef ACID_TEST
if ((in_payment->s_ACID & ACID_ISO_C)) {
    printf("\nTimestamp before commit of payment transaction:\n");
    print_date();
    printf("\n");
} else {
    printf("\nTimestamp before rollback of payment transaction:\n");
    print_date();
    printf("\n");

    goto rollback;
}
#endif

// Perform the commit
EXEC SQL COMMIT;
if (sqlca.sqlcode != 0) {
    if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
    sqlerror(PAYMENT_SQL, "COMMIT", 464, &sqlca);
    goto ferror;
}

#ifdef ACID_TEST
if ((in_payment->s_ACID & ACID_ISO_C)) {
    printf("\nTimestamp after commit of payment transaction:\n");
    print_date();
    printf("\n");

EXEC SQL
    SELECT c_balance
    INTO :new_balance
    FROM customer
    WHERE c_id = :c_id
    AND c_w_id = :c_w_id
    AND c_d_id = :c_d_id;

if (sqlca.sqlcode != 0)
{
    sqlerror(PAYMENT_SQL, "Second ACID test check of c_balance", 501, &sqlca);
    goto ferror;
}

    printf("\nValue of c_balance after the transaction commits:\n%f\n\n", new_balance);
}
#endif /* ACID_TEST */

/*-----*/
/* Return to client */
/*-----*/
payment->s_transtatus = TRAN_OK;
rc = 0;
goto mexit;

ferror:
    payment->s_transtatus = FATAL_SQLERROR;
    rc = -1;
rollback:
    EXEC SQL rollback work;
    if (sqlca.sqlcode != 0)
        sqlerror(PAYMENT_SQL, "ROLLBACK FAILED", 666, &sqlca);

```

```

#ifdef ACID_TEST
if ((in_payment->s_ACID & ACID_ISO_R)) {
printf("\nTimestamp after rollback of payment transaction:\n");
print_date();
printf("\n");

EXEC SQL
SELECT c_balance
INTO :new_balance
FROM customer
WHERE c_id = :c_id
AND c_w_id = :c_w_id
AND c_d_id = :c_d_id;

if (sqlca.sqlcode != 0)
{
sqlerror(PAYMENT_SQL, "Second ACID test check of c_balance", 688, &sqlca);
goto ferror;
}

printf("\nValue of c_balance after the transaction commits:\n%f\n", new_balance);
}
#else
pay_debug(payment, in_payment, "error code");
#endif

mexit:
payment->deadlocks = retry_count;
if ( sqlca.sqlcode < 0 )
rc = SQLZ_DISCONNECT_PROC;
else
rc = SQLZ_HOLD_PROC;

#ifdef DEBUGIT
pay_debug(payment, in_payment, "Server prior to return");
#endif

#ifdef ACID_TEST
printf("\nReturn payment data to client:\n\n");
#endif

return(rc);
}

```

stk.sqc

```

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 stk.sqc - Implement the stock level transaction.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3
3 Source File Name: engn/perf/tpcckit/Src.Srv/stk.sqc, perf, db2nt_v3,
c980410
3 SCCS Id. Number : 4/10/98 1.5
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/01 12:09:57
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#include "db2tpcc.h"

typedef struct sqlca Sqlca;
#define sqlca (*pca)

/*-----*/
/* STOCKLEV Service */
/*-----*/
int daricall stks(void *reserved1,

```

```

struct sqlda *pin_sqlda,
struct sqlda *pout_sqlda,
Sqlca *pca)
{
struct out_stocklev_struct *stocklev;
struct in_stocklev_struct *in_stocklev;

EXEC SQL BEGIN DECLARE SECTION;
long low_stock;
long w_id; /* change from short to long @000516AYL */
short d_id, threshold;
EXEC SQL END DECLARE SECTION;

int rc = 0;
int retry_count = -1;

in_stocklev = (struct in_stocklev_struct *)pin_sqlda->sqlvar[0].sqldata;
stocklev = (struct out_stocklev_struct *)pout_sqlda->sqlvar[0].sqldata;

#ifdef DEBUGIT
stk_debug(stocklev, in_stocklev, "Server upon entry");
#endif
/*-----*/
/* Read DISTRICT */
/*-----*/
w_id = in_stocklev->s_W_ID;
d_id = in_stocklev->s_D_ID;

retry_tran:
retry_count++;

/* we don't need this query
EXEC SQL SELECT d_next_o_id
INTO :d_next_o_id
FROM district
WHERE d_w_id = :w_id
AND d_id = :d_id;

if (sqlca.sqlcode != 0) {
if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
sqlerror(STOCKLEV_SQL, "SELECT read_district_cur", 49, &sqlca);
goto ferror;
} */

/*-----*/
/* Read ORDER_LINE & STOCK */
/*-----*/
threshold = in_stocklev->s_threshold; /*o_id = d_next_o_id - 21;*/

EXEC SQL BEGIN COMPOUND NOT ATOMIC STATIC

/*
SELECT count(distinct S_I_ID)
into :low_stock
from ORDER_LINE, STOCK
where OL_W_ID = :w_id
and OL_D_ID = :d_id
and OL_O_ID < :d_next_o_id and OL_O_ID > :o_id
and S_I_ID = OL_I_ID
and S_W_ID = OL_W_ID
and S_QUANTITY < :threshold;
*/

/*
** The following alternate statement uses nested table expressions
** in order to 1) push the distinct into the sort and 2) use
** the much more efficient count(*) run-time code. Since the
** the number of qualifying rows is small, the savings are
** only 10K instructions or so we think
** NOTE: V2 syntax only
** */

/* ORIGINAL Query (GUS)
SELECT count(*)
into :low_stock
from ( SELECT distinct S_I_ID

```

```

FROM (SELECT d_next_o_id, d_next_o_id - 21
      FROM district
      WHERE d_w_id = :w_id
      AND d_id = :d_id) ord_id(stop, start),
ORDER_LINE, STOCK
where OL_W_ID = :w_id
and OL_D_ID = :d_id
and OL_O_ID < ord_id.stop
and OL_O_ID > ord_id.start
and S_I_ID = OL_I_ID
and S_W_ID = OL_W_ID
and S_QUANTITY < :threshold ) foo;
** *****/

SELECT count(*) INTO :low_stock
FROM ( SELECT distinct S_I_ID
      FROM ORDER_LINE, STOCK, district
      WHERE OL_W_ID = :w_id
      AND district.d_w_id = :w_id
      AND district.d_id = :d_id

      AND OL_D_ID = :d_id
      AND OL_O_ID < district.d_next_o_id
      AND OL_O_ID > district.d_next_o_id - 21
      AND S_I_ID = OL_I_ID
      AND S_W_ID = OL_W_ID
      AND S_QUANTITY < :threshold SELECTIVITY .06 ) foo;

COMMIT;

END COMPOUND;

stocklev->s_low_stock = low_stock;

if (sqlca.sqlcode != 0) {
  switch (sqlca.sqlerrd[LASTCODE]) {
    case 0:
      if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
      sqlerror(STOCKLEV_SQL, "select count(distinct)", 83, &sqlca);
      goto ferror;
    case 1:
      if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
      sqlerror(STOCKLEV_SQL, "commit", 87, &sqlca);
      goto ferror;
    default:
      if (sqlca.sqlcode == DEADLOCK) goto retry_tran;
      sqlerror(STOCKLEV_SQL, "default case of compound sql", 91, &sqlca);
      goto ferror;
  }
}

stocklev->s_transtatus = TRAN_OK;
rc = 0;
goto mexit;

ferror:
rc = -1;
stocklev->s_transtatus = FATAL_SQLERROR;
EXEC SQL rollback work;
if (sqlca.sqlcode != 0)
  sqlerror(STOCKLEV_SQL, "ROLLBACK FAILED", 666, &sqlca);
stk_debug(stocklev, in_stocklev, "error code");

mexit:
stocklev->deadlocks = retry_count;

if ( sqlca.sqlcode < 0 )
  rc = SQLZ_DISCONNECT_PROC;
else
  rc = SQLZ_HOLD_PROC;

#ifdef DEBUGIT
  stk_debug(stocklev, in_stocklev, "Server prior to return");
#endif

return(rc);
}

```

db2tpcc.h

```

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 db2tpcc.h - This file contains global variables and data definitions for
the TPCC
3 application.
3
3 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3
3 Source File Name: engn/perf/tpcckit/include/db2tpcc.h, perf, db2nt_v3,
nightly
3 SCCS Id. Number : 4/15/98 1.6
3
3 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Date SIG Defect Remarks
3
3 04/15/1998 gal 084852 Minor changes for nightly build.
3
3 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/15 20:13:59
3 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

/* #define DEBUG */
#ifndef _DB2TPCC_H
#define _DB2TPCC_H

#include <stdio.h>
#include <stdlib.h>
#if ( !defined(SQLWINT)) && ( !defined(SQLOS2))
#define DB2OUT "tmp/"
#include <unistd.h>
#else
#define DB2OUT "C:\\TMP\\"
#endif
#include <string.h>
#include <time.h> /* functions: time() */

#ifdef SQLWINT
#include "sqlenv.h"
#define daricall __stdcall
#else
#define daricall
#endif

#include "lval.h"

#include "sqlca.h"

#ifndef FALSE
#define FALSE 0
#define TRUE 1
#endif

#define NULL_TIMESTAMP '0001-01-01-00.00.01.000000' /* used in new_order
*/
#define INVALID_ITEM 100
#define TRAN_OK 0
#define DEADLOCK -911
#define FATAL_SQLERROR -1

#define LASTCODE 3

extern void current_tmstamp(char*);

/*****
*/
/* ACID stuff
*/
/*****
*/
#ifdef ACID_TEST
#define ACID_ISO_F 0xFFFFF
#define ACID_ISO_1 0x00001

```

```

#define ACID_ISO_2 0x00002
#define ACID_ISO_3 0x00004
#define ACID_ISO_4 0x00008
#define ACID_ISO_5 0x00010
#define ACID_ISO_6 0x00020
#define ACID_ISO_7 0x00040
#define ACID_ISO_8 0x00080
#define ACID_ISO_9 0x00100
#define ACID_ISO_C 0x00200
#define ACID_ISO_R 0x00400
#endif

/*****
/* GSM, moved from tpccutil.h:
*/
*****/

#define NEWWORD_SQL 1
#define DELIVERY_SQL 2
#define PAYMENT_SQL 3
#define ORDSTAT_SQL 4
#define STOCKLEV_SQL 5

/* GSM: Function for recording SQL errors:*/
void sqlerror(int tranType, char *msg, int ptat, SQL_STRUCTURE sqlca
*psqlca);

/* GSM: Functions for debugging transactions:*/
extern void new_debug (struct out_newword_struct *newword_ptr,
struct in_newword_struct *in_newword_ptr,
char *msg);
extern void pay_debug (struct out_payment_struct *payment_ptr,
struct in_payment_struct *in_payment_ptr,
char *msg);
extern void ord_debug (struct out_ordstat_struct *ordstat_ptr,
struct in_ordstat_struct *in_ordstat_ptr,
char *msg);
extern void del_debug (struct out_delivery_struct *delivery_ptr,
struct in_delivery_struct *in_delivery_ptr,
char *msg);
extern void stk_debug (struct out_stocklev_struct *stocklev_ptr,
struct in_stocklev_struct *in_stocklev_ptr,
char *msg);

extern void new_print (struct out_newword_struct *newword_ptr,
struct in_newword_struct *in_newword_ptr,
char *filename,
char *msg);
extern void pay_print (struct out_payment_struct *payment_ptr,
struct in_payment_struct *in_payment_ptr,
char *filename,
char *msg);
extern void ord_print (struct out_ordstat_struct *ordstat_ptr,
struct in_ordstat_struct *in_ordstat_ptr,
char *filename,
char *msg);
extern void del_print (struct out_delivery_struct *delivery_ptr,
struct in_delivery_struct *in_delivery_ptr,
char *filename,
char *msg);
extern void stk_print (struct out_stocklev_struct *stocklev_ptr,
struct in_stocklev_struct *in_stocklev_ptr,
char *filename,
char *msg);

struct in_newword_struct {
struct in_items_struct {
long s_OL_I_ID; /* */
long s_OL_SUPPLY_W_ID; /* chang from int to long -- AYL */
short s_OL_QUANTITY; /* */
} in_item[15];
long s_C_ID; /* */
long s_W_ID; /* chang from int to long -- AYL */
short s_D_ID; /* */
short s_O_OL_CNT; /* */
short s_all_local;
short duplicate_items; /* */
#ifdef DB2_TIME_STRING
char s_O_ENTRY_D[20];
#else
sqlint64 s_O_ENTRY_D_time;
#endif
}

struct out_newword_struct {
struct items_struct {
char s_I_NAME[25];
double s_I_PRICE;
double s_OL_AMOUNT;
short s_S_QUANTITY;
char s_brand_generic;
} item[15];
char s_C_LAST[17];
char s_C_CREDIT[3];
double s_W_TAX;
double s_D_TAX;
double s_C_DISCOUNT;
long s_O_ID;
short s_O_OL_CNT;
double s_total_amount;
short s_transstatus;
short deadlocks;
};

struct in_payment_struct {
double s_H_AMOUNT; /* */
long s_C_ID; /* */
long s_W_ID; /* chang from int to long -- AYL */
short s_D_ID; /* */
short s_C_D_ID; /* */
long s_C_W_ID; /* chang from int to long -- AYL */
#ifdef DB2_TIME_STRING
char s_H_DATE[20];
#else
sqlint64 s_H_DATE_time;
#endif
char s_C_LAST[17]; /* */
#ifdef ACID_TEST
long s_ACID;
#endif
};

struct out_payment_struct {
double s_C_CREDIT_LIM;
double s_C_DISCOUNT;
double s_C_BALANCE;
long s_C_ID;
char s_W_STREET_1[21];
char s_W_STREET_2[21];
char s_W_CITY[21];
char s_W_STATE[3];
char s_W_ZIP[10];
char s_D_STREET_1[21];
char s_D_STREET_2[21];
char s_D_CITY[21];
char s_D_STATE[3];
char s_D_ZIP[10];
char s_C_FIRST[17];
char s_C_MIDDLE[3];
char s_C_LAST[17];
char s_C_STREET_1[21];
char s_C_STREET_2[21];
char s_C_CITY[21];
char s_C_STATE[3];
char s_C_ZIP[10];
char s_C_PHONE[17];
#ifdef DB2_TIME_STRING
char s_C_SINCE[20];
#else
sqlint64 s_C_SINCE_time;
#endif
char s_C_CREDIT[3];
char s_C_DATA[201];
};

```

```

short s_transtatus;
short deadlocks;
};

#define PAYMENT_COPY_SZ
(21+21+21+3+10+21+21+3+10+17+3+17+21+21+3+10+17)

struct in_ordstat_struct {
    long s_C_ID; /* */
    long s_W_ID; /* chang from int to long -- AYL */
    short s_D_ID; /* */
    char s_C_LAST[17]; /* */
#ifdef ACID_TEST
    long s_ACID;
#endif
};

struct out_ordstat_struct {
    double s_C_BALANCE;
    long s_C_ID;
    long s_O_ID;
    short s_O_CARRIER_ID;
#ifdef DB2_TIME_STRING
    char s_O_ENTRY_D[20];
#else
    sqlint64 s_O_ENTRY_D_time;
#endif
    short s_ol_cnt;
    struct oitems_struct {
        double s_OL_AMOUNT;
        long s_OL_I_ID;
        long s_OL_SUPPLY_W_ID; /* chang from int to long -- AYL */
        short s_OL_QUANTITY;
    } item[15];
#ifdef DB2_TIME_STRING
    char s_OL_DELIVERY_D[20];
#else
    sqlint64 s_OL_DELIVERY_D_time;
#endif
    char s_C_FIRST[17];
    char s_C_MIDDLE[3];
    char s_C_LAST[17];
    short s_transtatus;
    short deadlocks;
};

struct in_delivery_struct {
    long s_W_ID; /* chang from int to long -- AYL */
    short s_O_CARRIER_ID; /* */
#ifdef DB2_TIME_STRING
    char s_O_DELIVERY_D[20];
#else
    sqlint64 s_O_DELIVERY_D_time;
#endif
#ifdef ACID_TEST
    long s_ACID;
#endif
};

struct out_delivery_struct {
    short s_transtatus;
    short deadlocks;
    long s_O_ID[10];
};

struct in_stocklev_struct {
    long s_W_ID; /* chang from int to long -- AYL */
    short s_D_ID; /* */
    short s_threshold; /* */
#ifdef ACID_TEST
    long s_ACID;
#endif
};

struct out_stocklev_struct {
    short s_transtatus;
    short deadlocks;
    long s_low_stock;

```

```

};

#define TPCC_SWAP2(s) (((s) >> 8) & 0xFF) | (((s) << 8) & 0xFF00))

#define TPCC_SWAP4(l) (((l) >> 24) & 0xFF) | (((l) & 0xFF0000) >> 8) & 0xFF00 \
| (((l) & 0xFF00) << 8) | ((l) << 24))

#define TPCC_SWAP8( where ) \
{ \
    long temp; \
    temp = TPCC_SWAP4(*(long *) (where)); \
    *(long *) (where) = TPCC_SWAP4(*(((long *) (where)) + 1)); \
    *(((long *) (where)) + 1) = temp; \
}

#endif

tpccdbg.c

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 tpccdbg.C - Provide debut utilities for thetpcc code.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3
3 Source File Name: engn/perf/tpcckit/Src.Common/tpccdbg.C,perf, db2nt_v3, nightly
3 SCCS Id. Number : 4/15/98 1.4
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Date SIG Defect Remarks
3
3 04/15/1998 gal 084852 Added this header.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/15 19:58:15
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

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

#include "sqlca.h"
#include "db2tpcc.h"

#define DEBUG_FILENAME_SZ 256

/*-----*/
/* sqlerror */
/*-----*/

void sqlerror(int tranType, char *msg, int ptat, SQL_STRUCTURE sqlca *psqlca)
{
    FILE *err_fp;
    char err_fn[DEBUG_FILENAME_SZ]= DB2OUT;
    char tranName[16];
    int j,k;

    switch(tranType)
    {
        case NEWORD_SQL:
            strcat(err_fn, "new.err.out");
            strcpy(tranName, "NEW_ORDER");
            break;

        case DELIVERY_SQL:
            strcat(err_fn, "del.err.out");
            strcpy(tranName, "DELIVERY");
            break;

        case PAYMENT_SQL:
            strcat(err_fn, "pay.err.out");

```

```

        strcpy(tranName, "PAYMENT");
        break;

case ORDSTAT_SQL:
    strcat(err_fn, "ord.err.out");
    strcpy(tranName, "ORDER_STAT");
    break;

case STOCKLEV_SQL:
    strcat(err_fn, "stk.err.out");
    strcpy(tranName, "STOCK_LVL");
    break;

default:
    return;
}

err_fp = fopen(err_fn, "a+");

fprintf(err_fp, "%s: %2d sqlcode: %4d %s\n", tranName, ptat, psqlca->sqlcode, msg);

if (psqlca->sqlerrmc[0] != ' ' || psqlca->sqlerrmc[1] != ' ')
{
    fprintf(err_fp, "%s:slerrmc: ", tranName);

    for(j = 0; j < 5; j++)
    {
        for(k = 0; k < 14; k++)
            fprintf(err_fp, "%x", psqlca->sqlerrmc[j*10+k]);
        fprintf(err_fp, " ");
        for(k = 0; k < 14; k++)
            fprintf(err_fp, "%c", psqlca->sqlerrmc[j*10+k]);
        fprintf(err_fp, "\n");
        if (j < 4)
            fprintf(err_fp, " ");
    }
}

fprintf(err_fp, "%s:sqlerrp: ", tranName);
for(j = 0; j < 8; j++)
    fprintf(err_fp, "%c", psqlca->sqlerrp[j]);
fprintf(err_fp, "\n");

fprintf(err_fp, "%s:sqlerrd: ", tranName);
for(j = 0; j < 6; j++)
    fprintf(err_fp, "%d", psqlca->sqlerrd[j]);
fprintf(err_fp, "\n");

if (psqlca->sqlwarn[0] != ' ')
{
    fprintf(err_fp, "%s:sqlwarn: ", tranName);
    for(j = 0; j < 8; j++)
        fprintf(err_fp, "%c ", psqlca->sqlwarn[j]);
    fprintf(err_fp, "\n");
}

fprintf(err_fp, "\n");

fclose(err_fp);
}

/*-----*/
/* del_debug */
/*-----*/
void del_debug (struct out_delivery_struct *delivery_ptr,
                struct in_delivery_struct *in_delivery,
                char *msg)
{
    char debug_fn[DEBUG_FILENAME_SZ] = DB2OUT "del.debug.out";
    del_print(delivery_ptr, in_delivery, debug_fn, msg);
}

/*-----*/
/* del_print */
/*-----*/
void del_print (struct out_delivery_struct *delivery_ptr,

```

```

                struct in_delivery_struct *in_delivery,
                char *filename,
                char *msg)
{
    FILE *debug_fp;
    char timeStamp[27];
    int j;

    current_tmstamp(&timeStamp[0]);
    timeStamp[19] = (char)NULL;

    if ((debug_fp = fopen(filename, "a+")) == NULL)
    {
        return;
    }

    fprintf(debug_fp, "Deliverydebug information follows %s(%s)\n", timeStamp, msg);

fprintf(debug_fp, "===== \n");

    fprintf(debug_fp, "in_delivery_struct{\n");
    fprintf(debug_fp, "ts_W_ID      = %ld (%lX)\n",
        in_delivery->s_W_ID, in_delivery->s_W_ID);
    fprintf(debug_fp, "ts_O_CARRIER_ID= %hd (%hX)\n",
        in_delivery->s_O_CARRIER_ID, in_delivery->s_O_CARRIER_ID);
    fprintf(debug_fp, "}\n\n");

    fprintf(debug_fp, "out_delivery_struct{\n");
    fprintf(debug_fp, "ts_transtatus  = %hd (%hX)\n",
        delivery_ptr->s_transtatus, delivery_ptr->s_transtatus);
    fprintf(debug_fp, "\tdeadlocks    = %hd (%hX)\n",
        delivery_ptr->deadlocks, delivery_ptr->deadlocks);

    for (j = 0; j < 10; j++) {
        fprintf(debug_fp, "\tts_O_ID[%d]    = %d\n",
            j, delivery_ptr->s_O_ID[j]);
    }
    fprintf(debug_fp, "\t}\n\n");
    fclose(debug_fp);
}

/*-----*/
/* new_debug */
/*-----*/
void new_debug (struct out_neword_struct *neword_ptr,
                struct in_neword_struct *in_neword,
                char *msg)
{
    char debug_fn[DEBUG_FILENAME_SZ] = DB2OUT "new.debug.out";
    new_print(neword_ptr, in_neword, debug_fn, msg);
}

/*-----*/
/* new_print */
/*-----*/
void new_print (struct out_neword_struct *neword_ptr,
                struct in_neword_struct *in_neword,
                char *filename,
                char *msg)
{
    FILE *debug_fp;
    char timeStamp[27];
    int j, items;

    current_tmstamp(&timeStamp[0]);
    timeStamp[19] = (char)NULL;

    if ((debug_fp = fopen(filename, "a+")) == NULL)
    {
        return;
    }

    fprintf(debug_fp, "Neworder debug information follows %s(%s)\n", timeStamp, msg);

fprintf(debug_fp, "===== \n");

```

```

fprintf(debug_fp,"in_neword_struct {\n");

fprintf(debug_fp,"ts_C_ID      = %ld (%lX)\n",
    in_neword->s_C_ID, in_neword->s_C_ID);
fprintf(debug_fp,"ts_W_ID      = %ld (%lX)\n",
    in_neword->s_W_ID, in_neword->s_W_ID);
fprintf(debug_fp,"ts_D_ID      = %hd (%hX)\n",
    in_neword->s_D_ID, in_neword->s_D_ID);
fprintf(debug_fp,"ts_O_OL_CNT  = %hd (%hX)\n",
    in_neword->s_O_OL_CNT, in_neword->s_O_OL_CNT);
fprintf(debug_fp,"ts_all_local = %hd (%hX)\n",
    in_neword->s_all_local, in_neword->s_all_local);
// fprintf(debug_fp,"ts_transtatus = %hd (%hX)\n",
//    in_neword->s_transtatus, in_neword->s_transtatus);
// fprintf(debug_fp,"\tduplicate_items=%hd (%hX)\n",
//    in_neword->duplicate_items, in_neword->duplicate_items);

fprintf(debug_fp,"titems {\n");
items = in_neword->s_O_OL_CNT;
for (j=0; j<items; j++) {
    if(j != 0)
        fprintf(debug_fp,"n");
    fprintf(debug_fp,"ts_OL_I_ID[%d] = %ld (%lX)\n",
        j, in_neword->in_item[j].s_OL_I_ID, in_neword->in_item[j].s_OL_I_ID);
    fprintf(debug_fp,"ts_OL_SUPPLY_W_ID[%d]= %ld (%lX)\n",
        j, in_neword->in_item[j].s_OL_SUPPLY_W_ID,
in_neword->in_item[j].s_OL_SUPPLY_W_ID);
    fprintf(debug_fp,"ts_OL_QUANTITY[%d] = %hd (%hX)\n",
        j, in_neword->in_item[j].s_OL_QUANTITY,
in_neword->in_item[j].s_OL_QUANTITY);
}
fprintf(debug_fp,"t}\n}\n\n");

fprintf(debug_fp,"out_neword_struct {\n");
fprintf(debug_fp,"ts_C_LAST    = %s\n",
    neword_ptr->s_C_LAST);
fprintf(debug_fp,"ts_C_CREDIT  = %s\n",
    neword_ptr->s_C_CREDIT);
#ifdef DB2_TIME_STRING
    fprintf(debug_fp,"ts_O_ENTRY_D = %s\n",
        neword_ptr->s_O_ENTRY_D);
#else
// fprintf(debug_fp,"ts_O_ENTRY_D = %d\n",
//    neword_ptr->s_O_ENTRY_D_time);
#endif
fprintf(debug_fp,"ts_W_TAX      = %0.4f\n",
    neword_ptr->s_W_TAX);
fprintf(debug_fp,"ts_D_TAX      = %0.4f\n",
    neword_ptr->s_D_TAX);
fprintf(debug_fp,"ts_C_DISCOUNT = %0.4f\n",
    neword_ptr->s_C_DISCOUNT);
fprintf(debug_fp,"ts_O_ID       = %ld (%lX)\n",
    neword_ptr->s_O_ID, neword_ptr->s_O_ID);
fprintf(debug_fp,"ts_O_OL_CNT  = %hd (%hX)\n",
    neword_ptr->s_O_OL_CNT, neword_ptr->s_O_OL_CNT);
fprintf(debug_fp,"ts_total_amount= %0.2f\n",
    neword_ptr->s_total_amount);
fprintf(debug_fp,"ts_transtatus = %hd (%hX)\n",
    neword_ptr->s_transtatus, neword_ptr->s_transtatus);
fprintf(debug_fp,"tdeadlocks   = %hd (%hX)\n",
    neword_ptr->deadlocks, neword_ptr->deadlocks);

// fprintf(debug_fp,"ts_W_ID      = %ld (%lX)\n",
//    neword_ptr->s_W_ID, neword_ptr->s_W_ID);
// fprintf(debug_fp,"ts_D_ID      = %hd (%hX)\n",
//    neword_ptr->s_D_ID, neword_ptr->s_D_ID);
// fprintf(debug_fp,"ts_all_local = %hd (%hX)\n",
//    neword_ptr->s_all_local, neword_ptr->s_all_local);
// fprintf(debug_fp,"\tduplicate_items=%hd (%hX)\n",
//    neword_ptr->duplicate_items, neword_ptr->duplicate_items);

fprintf(debug_fp,"titems {\n");
items = neword_ptr->s_O_OL_CNT;
for (j=0; j<items; j++) {
    if(j != 0)
        fprintf(debug_fp,"n");
    fprintf(debug_fp,"ts_I_NAME[%d] = %s\n",
        j, neword_ptr->item[j].s_I_NAME);

```

```

        fprintf(debug_fp,"ts_I_PRICE[%d] = %0.2f\n",
            j, neword_ptr->item[j].s_I_PRICE);
        fprintf(debug_fp,"ts_OL_AMOUNT[%d] = %0.2f\n",
            j, neword_ptr->item[j].s_OL_AMOUNT);
        fprintf(debug_fp,"ts_S_QUANTITY[%d] = %hd (%hX)\n",
            j, neword_ptr->item[j].s_S_QUANTITY, neword_ptr->item[j].s_S_QUANTITY);
        fprintf(debug_fp,"ts_brand_generic[%d] = %c\n",
            j, neword_ptr->item[j].s_brand_generic);
    }
    fprintf(debug_fp,"t}\n}\n\n");
    fclose(debug_fp);
}

/*-----*/
/* ord_debug */
/*-----*/
void ord_debug (struct out_ordstat_struct *ordstat_ptr,
    struct in_ordstat_struct *in_ordstat,
    char *msg)
{
    char debug_fn[DEBUG_FILENAME_SZ]= DB2OUT "ord.debug.out";
    ord_print(ordstat_ptr, in_ordstat, debug_fn, msg);
}

/*-----*/
/* ord_print */
/*-----*/
void ord_print (struct out_ordstat_struct *ordstat_ptr,
    struct in_ordstat_struct *in_ordstat,
    char *filename,
    char *msg)
{
    FILE *debug_fp;
    char timeStamp[27];
    int j, items;

    /*strcpy(timeStamp, current_tmstamp());*/
    current_tmstamp(&timeStamp[0]);
    timeStamp[19] = (char)NULL;

    if ((debug_fp = fopen(filename, "a+")) == NULL)
    {
        return;
    }

    fprintf(debug_fp,"Order status debug information follows %s(%s)\n", timeStamp, msg);

fprintf(debug_fp,"=====\\n");

    fprintf(debug_fp,"in_ordstat_struct {\n");
    fprintf(debug_fp,"ts_W_ID      = %ld (%lX)\n",
        in_ordstat->s_W_ID, in_ordstat->s_W_ID);
    fprintf(debug_fp,"ts_D_ID      = %hd (%hX)\n",
        in_ordstat->s_D_ID, in_ordstat->s_D_ID);
    fprintf(debug_fp,"ts_C_ID      = %ld (%lX)\n",
        in_ordstat->s_C_ID, in_ordstat->s_C_ID);
    fprintf(debug_fp,"ts_C_LAST    = %s\n",
        in_ordstat->s_C_LAST);
    fprintf(debug_fp,"}\n\n");

    fprintf(debug_fp,"out_ordstat_struct {\n");
    fprintf(debug_fp,"ts_C_ID      = %ld (%lX)\n",
        ordstat_ptr->s_C_ID, ordstat_ptr->s_C_ID);
    fprintf(debug_fp,"ts_C_FIRST   = %s\n",
        ordstat_ptr->s_C_FIRST);
    fprintf(debug_fp,"ts_C_MIDDLE  = %s\n",
        ordstat_ptr->s_C_MIDDLE);
    fprintf(debug_fp,"ts_C_LAST    = %s\n",
        ordstat_ptr->s_C_LAST);
    fprintf(debug_fp,"ts_C_BALANCE = %0.2f\n",
        ordstat_ptr->s_C_BALANCE);
    fprintf(debug_fp,"ts_O_ID      = %ld (%lX)\n",
        ordstat_ptr->s_O_ID, ordstat_ptr->s_O_ID);
#ifdef DB2_TIME_STRING
    fprintf(debug_fp,"ts_O_ENTRY_D = %s\n",
        ordstat_ptr->s_O_ENTRY_D);

```

```

#else
    fprintf(debug_fp, "\ts_O_ENTRY_D = %d\n",
            ordstat_ptr->s_O_ENTRY_D_time);
#endif

fprintf(debug_fp, "\ts_O_CARRIER_ID= %hd (%hX)\n",
        ordstat_ptr->s_O_CARRIER_ID, ordstat_ptr->s_O_CARRIER_ID);
fprintf(debug_fp, "\ts_ol_cnt = %hd (%hX)\n",
        ordstat_ptr->s_ol_cnt, ordstat_ptr->s_ol_cnt);
fprintf(debug_fp, "\ts_transtatus = %hd (%hX)\n",
        ordstat_ptr->s_transtatus, ordstat_ptr->s_transtatus);
fprintf(debug_fp, "\tdeadlocks = %hd (%hX)\n",
        ordstat_ptr->deadlocks, ordstat_ptr->deadlocks);

fprintf(debug_fp, "\titems {\n");
items = ordstat_ptr->s_ol_cnt;
for (j = 0; j < items; j++) {
    if(j != 0)
        fprintf(debug_fp, "\n");
    fprintf(debug_fp, "\t\tts_OL_SUPPLY_W_ID[%d]= %ld (%lX)\n",
            j, ordstat_ptr->item[j].s_OL_SUPPLY_W_ID,
            ordstat_ptr->item[j].s_OL_SUPPLY_W_ID);
    fprintf(debug_fp, "\t\tts_OL_I_ID[%d] = %ld (%lX)\n",
            j, ordstat_ptr->item[j].s_OL_I_ID, ordstat_ptr->item[j].s_OL_I_ID);
    fprintf(debug_fp, "\t\tts_OL_QUANTITY[%d] = %hd (%hX)\n",
            j, ordstat_ptr->item[j].s_OL_QUANTITY,
            ordstat_ptr->item[j].s_OL_QUANTITY);
    fprintf(debug_fp, "\t\tts_OL_AMOUNT[%d] = %0.2f\n",
            j, ordstat_ptr->item[j].s_OL_AMOUNT);
#ifdef DB2_TIME_STRING
    fprintf(debug_fp, "\t\tts_OL_DELIVERY_D[%d] = %s\n",
            j, ordstat_ptr->item[j].s_OL_DELIVERY_D);
#else
    fprintf(debug_fp, "\t\tts_OL_DELIVERY_D[%d] = %d\n",
            j, ordstat_ptr->item[j].s_OL_DELIVERY_D_time);
#endif
}
fprintf(debug_fp, "\t}\n\n");
fclose(debug_fp);
}

/*-----*/
/* pay_debug */
/*-----*/
void pay_debug (struct out_payment_struct *payment_ptr,
                struct in_payment_struct *in_payment,
                char *msg)
{
    char debug_fn[DEBUG_FILENAME_SZ]= DB2OUT "pay.debug.out";
    pay_print(payment_ptr, in_payment, debug_fn, msg);
}

/*-----*/
/* pay_print */
/*-----*/
void pay_print (struct out_payment_struct *payment_ptr,
                struct in_payment_struct *in_payment,
                char *filename,
                char *msg)
{
    FILE *debug_fp;
    char timeStamp[27];

    current_tmstamp(&timeStamp[0]);
    timeStamp[19] = (char)NULL;

    if ((debug_fp = fopen(filename, "a+")) == NULL)
    {
        return;
    }

    fprintf(debug_fp, "Paymentdebug information follows %s(%s)\n", timeStamp, msg);

    fprintf(debug_fp, "=====
    fprintf(debug_fp, "in_payment_struct {\n");
    fprintf(debug_fp, "\ts H AMOUNT = %0.2f\n",

```

```

        in_payment->s_H_AMOUNT);
fprintf(debug_fp, "ts_C_ID      = %ld (%lX)\n",
        in_payment->s_C_ID, in_payment->s_C_ID);
fprintf(debug_fp, "ts_W_ID      = %ld (%lX)\n",
        in_payment->s_W_ID, in_payment->s_W_ID);
fprintf(debug_fp, "ts_D_ID      = %hd (%hX)\n",
        in_payment->s_D_ID, in_payment->s_D_ID);
fprintf(debug_fp, "ts_C_D_ID     = %hd (%hX)\n",
        in_payment->s_C_D_ID, in_payment->s_C_D_ID);
fprintf(debug_fp, "ts_C_W_ID     = %ld (%lX)\n",
        in_payment->s_C_W_ID, in_payment->s_C_W_ID);
fprintf(debug_fp, "ts_C_LAST     = %s\n",
        in_payment->s_C_LAST);
fprintf(debug_fp, "\n\n\n");

fprintf(debug_fp, "out_payment_struct{\n");
fprintf(debug_fp, "ts_C_CREDIT_LIM= %0.2f\n",
        payment_ptr->s_C_CREDIT_LIM);
fprintf(debug_fp, "ts_C_DISCOUNT = %0.2f\n",
        payment_ptr->s_C_DISCOUNT);
fprintf(debug_fp, "ts_C_BALANCE   = %0.2f\n",
        payment_ptr->s_C_BALANCE);
fprintf(debug_fp, "ts_C_ID       = %ld (%lX)\n",
        payment_ptr->s_C_ID, payment_ptr->s_C_ID);
#ifdef DB2_TIME_STRING
fprintf(debug_fp, "ts_H_DATE      = %s\n",
        payment_ptr->s_H_DATE);
#else
// fprintf(debug_fp, "ts_H_DATE      = %d\n",
//         payment_ptr->s_H_DATE_time);
#endif
fprintf(debug_fp, "ts_W_STREET_1 = %s\n",
        payment_ptr->s_W_STREET_1);
fprintf(debug_fp, "ts_W_STREET_2 = %s\n",
        payment_ptr->s_W_STREET_2);
fprintf(debug_fp, "ts_W_CITY      = %s\n",
        payment_ptr->s_W_CITY);
fprintf(debug_fp, "ts_W_STATE     = %s\n",
        payment_ptr->s_W_STATE);
fprintf(debug_fp, "ts_W_ZIP       = %s\n",
        payment_ptr->s_W_ZIP);
fprintf(debug_fp, "ts_D_STREET_1 = %s\n",
        payment_ptr->s_D_STREET_1);
fprintf(debug_fp, "ts_D_STREET_2 = %s\n",
        payment_ptr->s_D_STREET_2);
fprintf(debug_fp, "ts_D_CITY      = %s\n",
        payment_ptr->s_D_CITY);
fprintf(debug_fp, "ts_D_STATE     = %s\n",
        payment_ptr->s_D_STATE);
fprintf(debug_fp, "ts_D_ZIP       = %s\n",
        payment_ptr->s_D_ZIP);
fprintf(debug_fp, "ts_C_FIRST     = %s\n",
        payment_ptr->s_C_FIRST);
fprintf(debug_fp, "ts_C_MIDDLE    = %s\n",
        payment_ptr->s_C_MIDDLE);
fprintf(debug_fp, "ts_C_LAST      = %s\n",
        payment_ptr->s_C_LAST);
fprintf(debug_fp, "ts_C_STREET_1 = %s\n",
        payment_ptr->s_C_STREET_1);
fprintf(debug_fp, "ts_C_STREET_2 = %s\n",
        payment_ptr->s_C_STREET_2);
fprintf(debug_fp, "ts_C_CITY      = %s\n",
        payment_ptr->s_C_CITY);
fprintf(debug_fp, "ts_C_STATE     = %s\n",
        payment_ptr->s_C_STATE);
fprintf(debug_fp, "ts_C_ZIP       = %s\n",
        payment_ptr->s_C_ZIP);
fprintf(debug_fp, "ts_C_PHONE     = %s\n",
        payment_ptr->s_C_PHONE);
#ifdef DB2_DATE_STRING
fprintf(debug_fp, "ts_C_SINCE    = %s\n",
        payment_ptr->s_C_SINCE);
#else
fprintf(debug_fp, "ts_C_SINCE    = %d\n",
        payment_ptr->s_C_SINCE_time);
#endif
fprintf(debug_fp, "ts_C_CREDIT   = %s\n",
        payment_ptr->s_C_CREDIT);

```

```

fprintf(debug_fp, "\ts_C_DATA    = %s\n",
        payment_ptr->s_C_DATA);
fprintf(debug_fp, "\ts_transtatus = %hd (%hX)\n",
        payment_ptr->s_transtatus, payment_ptr->s_transtatus);
fprintf(debug_fp, "\tdeadlocks   = %hd (%hX)\n",
        payment_ptr->deadlocks, payment_ptr->deadlocks);
fprintf(debug_fp, "\n\n");
fclose(debug_fp);
}

/*-----*/
/* stk_debug                               */
/*-----*/
void stk_debug (struct out_stocklev_struct *stocklev,
               struct in_stocklev_struct *in_stocklev,
               char *msg)
{
    char debug_fn[DEBUG_FILENAME_SZ] = DB2OUT "stk.debug.out";
    stk_print(stocklev, in_stocklev, debug_fn, msg);
}

/*-----*/
/* stk_print                               */
/*-----*/
void stk_print (struct out_stocklev_struct *stocklev,
               struct in_stocklev_struct *in_stocklev,
               char *filename,
               char *msg)
{
    FILE *debug_fp;
    char timeStamp[27];

    current_tmstamp(&timeStamp[0]);
    timeStamp[19] = (char)NULL;

    if ((debug_fp = fopen(filename, "a+")) == NULL)
    {
        return;
    }

    fprintf(debug_fp, "Stocklevel debug information follows %s(%s)\n", timeStamp, msg);

    fprintf(debug_fp, "=====\n");

    fprintf(debug_fp, "in_stocklev_struct {\n");
    fprintf(debug_fp, "\ts_W_ID      = %ld (%lX)\n",
            in_stocklev->s_W_ID, in_stocklev->s_W_ID);
    fprintf(debug_fp, "\ts_D_ID      = %hd (%hX)\n",
            in_stocklev->s_D_ID, in_stocklev->s_D_ID);
    fprintf(debug_fp, "\ts_threshold = %hd (%hX)\n",
            in_stocklev->s_threshold, in_stocklev->s_threshold);
    fprintf(debug_fp, "}\n\n");

    fprintf(debug_fp, "out_stocklev_struct {\n");
    fprintf(debug_fp, "\ts_transtatus = %hd (%hX)\n",
            stocklev->s_transtatus, stocklev->s_transtatus);
    fprintf(debug_fp, "\tdeadlocks   = %hd (%hX)\n",
            stocklev->deadlocks, stocklev->deadlocks);
    fprintf(debug_fp, "\ts_low_stock = %ld (%lX)\n",
            stocklev->s_low_stock, stocklev->s_low_stock);
    fprintf(debug_fp, "}\n\n");
    fclose(debug_fp);
}

```

tpccmisc.c

```

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 tpccmisc.C - Provide some useful utilities for thetpcc code.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3
3 Source File Name: engn/perf/tpcckit/Src.Common/tpccmisc.C,perf, db2nt_v3, nightly
3 SCCS Id. Number : 4/15/98 1.4

```

```

3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Date      SIG Defect Remarks
3
3 04/15/1998 gal 084852 Minor fixes for nightly build.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/15 19:58:18
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#if defined(SQLWINT)
#include <windows.h>
#else
#include <sys\timeb.h>
#include <limits.h>
#endif
#include <time.h>          /* for localtime() */
#include <stdio.h>
#include "sqlca.h"

#if defined(SQLWINT)
#define RAND_A 16807
#define RAND_M 2147483647
#define RAND_M1 2147483646
#define RAND_MD 2147483647.0
#define RAND_Q 127773
#define RAND_R 2836

static int seed = 1;
static int seedflag = 0;

void random (int initial_seed) {
    seed = initial_seed;
    if ((seed < 1) || (seed > RAND_M1)) seed = 1;
}

int random (void) {
    int lo;
    int hi;
    int test;

    hi = seed / RAND_Q;
    lo = seed % RAND_Q;
    test = RAND_A * lo - RAND_R * hi;
    if (test > 0) seed = test;
    else seed = test + RAND_M;

    return (seed);
}

long get_random (long max, int seed) {
    long rn;
    if (!seedflag) {
        seedflag=1;
        random (seed);
    }
    rn = random();
    return (rn % max);
}

double current_time(void) {
    double result;

    result = (double)(GetCurrentTime())/1000;
    return(result);
}

void current_tmstamp(char* tstring) {
    SYSTEMTIME st;

    GetLocalTime (&st);
    sprintf (tstring, "%04d-%02d-%02d.%02d.%02d.000000",
            st.wYear,
            st.wMonth,

```

```

        st.wDay,
        st.wHour,
        st.wMinute,
        st.wSecond);
    }

#endif

/* GSM, timestamp printing for ACID testing */
void print_date(void)
{
    time_t ltime;
    struct tm *today;
    char ctime[32];

    time(&ltime);
    today = localtime(&ltime);

    strftime(ctime, 32, "%m/%d/%Y %H:%M:%S", today);
    printf("%s\n", ctime);

    return;
}

/* GSM, delay function for ACID testing, takes number of seconds */
void acid_delay(int seconds)
{
#ifdef SQLUNIX
    sleep(seconds);
#else
    Sleep(seconds * 1000);
#endif

    return;
}

```

tpccutil.h

```

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 tpccutil.h - This file contains the definitions and structures used globally byTPCC.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Source File Name: engn/perf/tpckit/include/tpccutil.h,perf, db2nt_v3, c980410
3 SCCS Id. Number : 4/10/98 1.4
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/01 12:07:56
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#ifdef _TPCCUTIL_H
#define _TPCCUTIL_H

#ifdef _TPCCUTIL_C
#define EXTERN
#else
#define EXTERN extern
#endif

/******
/* Type definition section. */
/******

#ifdef ACID_TEST
typedef void (*TPCC_FUNCTION)(void *, int);
#else
typedef void (*TPCC_FUNCTION)(void *, int, long);
#endif

typedef int (*TPCC_FUNC)(void *, void *);

typedef struct tStat_t {
    int trans, rejects, dlocks, _90, bad;

```

```

    double resptime;

    // NEWORDER values for local and/or remote processing.
    int trans_l, trans_r, rejects_l, rejects_r, dlocks_l, dlocks_r, _90_l,
    _90_r;
    double resptime_l, resptime_r;
} tStat_t, *P_tStat_t;

#define sz_tStat_t sizeof(tStat_t)

// Stolen from Ivan Lew's code in db2stat.c
#define Li2Double(x) ((double)((x).HighPart) * 4.294967296E9 + (double)((x).LowPart))

/******
/* Externally available functions. */
/******
EXTERN void connect_to_TM(char*);
EXTERN void disconnect_from_TM(void);

#ifdef ACID_TEST
EXTERN int run_measurement(int, P_tStat_t*, int*, BOOL*, LARGE_INTEGER, int,
double);
//AYL adding two extra arguments

EXTERN void neword_sample(void *, int);
EXTERN void payment_sample(void *, int);
EXTERN void ordstat_sample(void *, int);
EXTERN void delivery_sample(void *, int);
EXTERN void stocklev_sample(void *, int);
#else
EXTERN int run_measurement(int, P_tStat_t*, int*, BOOL*, LARGE_INTEGER, long,
int, double);
//AYL adding two extra arguments

EXTERN void neword_sample(void *, int, long);
EXTERN void payment_sample(void *, int, long);
EXTERN void ordstat_sample(void *, int, long);
EXTERN void delivery_sample(void *, int, long);
EXTERN void stocklev_sample(void *, int, long);
#endif

/******
/* Externally available variables. */
/******
EXTERN char *transTypeNames[];

#undef EXTERN

#endif

```

Appendix B: Database Design

Database Build

makefile.nt

```
# TPC-C makefile
#
# modified by Honesty Young, Almaden, May, 1995
#

CC      =      cl

INCLUDE =      $(DB2PATH)\include;$(INCLUDE);..\include

CFLAG1 =      -I$(INCLUDE) -DNT -Dpascal= -DSQLUNIX -DSQLAIX \
              -DLINT_ARGS -Dfar= -D_loadds= -DSQLA_NOLINES

CFLAG2 =      -ldb2 -lm -lcurses -ls -ll -ly -liconv

LIB      =      $(DB2PATH)\lib\db2api.lib $(MSDEVDIR)\lib\libc.lib \
              $(MSDEVDIR)\lib\oldnames.lib $(MSDEVDIR)\lib\kernel32.lib

HDR      =      $(TPCC_ROOT)\include\ctest.h $(TPCC_ROOT)\include\lval.h
C        =      misc.c
SQC      =      crtb.sqc gendata.sqc cridx.sqc rstats.sqc gendata1.sqc

SRC      =      $(HDR)      $(C)      $(SQC)
OBJ      =      misc.obj
EXEC     =      gendata2.exe gendata.exe cridx.exe rstats.exe gendata1.exe

.SUFFIXES:      .s .o .c .sqc .bnd .exe

all: crtb rest

rest: $(EXEC)

gendata: gendata.exe
gendata1: gendata1.exe
crtb: crtb.exe

#$(HDR) $(SQC)
.sqc.c:
    db2 connect to $(TPCC_DBNAME)
    db2 prep *.sqc BINDFILE OPTLEVEL 1 ISOLATION RS MESSAGES
msgs\prep.msg NOLINEMACRO
    db2 bind *.bnd GRANT PUBLIC MESSAGES msgs\bnd.msg
    db2 connect reset
    db2 terminate
#    db2 prep *.sqc bindfile package

crtb.exe: $(OBJ) crtb.c $(HDR)
    $(CC) $(CFLAG1) *.c $(LIB) $(OBJ)

gendata.exe: $(OBJ) gendata.c $(HDR)
    $(CC) $(CFLAG1) *.c $(LIB) $(OBJ)

gendata1.exe: $(OBJ) gendata1.c $(HDR)
    $(CC) $(CFLAG1) *.c $(LIB) $(OBJ)

gen-gus.exe: $(OBJ) gen-gus.c $(HDR)
    $(CC) $(CFLAG1) *.c $(LIB) $(OBJ)

gendata2.exe: $(OBJ) gendata2.c $(HDR)
    $(CC) $(CFLAG1) *.c $(LIB) $(OBJ)

cridx.exe: $(OBJ) cridx.c $(HDR)
    $(CC) $(CFLAG1) *.c $(LIB) $(OBJ)

rstats.exe: $(OBJ) rstats.c $(HDR)
    $(CC) $(CFLAG1) *.c $(LIB) $(OBJ)

genascii: genascii.obj misc.obj
    $(CC) -o@ $(CFLAG1) genascii.obj $(OBJ) $(LIB)
```

```
genascii.obj: genascii.c $(HDR)
    $(CC) -c genascii.c $(CFLAG1)

misc.obj: misc.c $(HDR)
    $(CC) -c misc.c $(CFLAG1)

startdb:
    make -i db2start > null

db2start:
    db2start

clean:
    rd /q /s msgs
    md msgs
    erase /f *.msg *.pdb *.obj *.bnd *.exe crtb.c gendata.c cridx.c rstats.c gendata1.c

bind:
    sqlbind    gendata.bnd    $(TPCC_DBNAME)
```

tpccgen.bat

```
set DB2INSTANCE=TPCC
REM @echo off
rem *****
rem * IBM DB2 TPCC Benchmark for clusters of NT machines
rem *****

db2set DB2COMM=tcip -i tpcc
db2set DB2TEMPDIR=c:\TMP -i tpcc
db2set DB2INSTDEF=tpcc -i tpcc
db2set DB2ADMINSERVER=DB2DAS00 -i tpcc
db2set DB2NTNOCACHE=ON
db2 update dbm cfg using SVCENAME db2cTPCC
db2 get dbm cfg | grep SVCE
db2set -all

echo ~~~~~ Execution of tpccgen started at:
date /t
time /t
echo ~~~~~

db2 connect reset
db2stop
sleep 10
echo *****
echo Setting TPCC Environment
echo *****

call tpccenv
REM @echo off

cd %TPCC_DBGEN%

sleep 10
db2start
rem *****
rem * drop the old database
rem *****
db2 drop db %TPCC_DBNAME%

echo
~~~~~
echo ~~~~~ Creation of DB and tablespace started at:
date /t
time /t
echo
~~~~~

rem *****
rem * create the database
rem *****
```

```

db2 terminate
db2stop

sleep 20
set db2node=0
db2start
db2 -v create database %TPCC_DBNAME%

REM set DB2NODE=0
db2 set client connect_node 0 attach_node 0
db2 -v connect to %TPCC_DBNAME%

rem *****
rem * create the database table spaces
rem *****
db2 -vtf crtdbts.ddl 2>&1 | tee %TPCC_MSGS%\crtdbts.out

echo *****
echo Executing make clean
echo *****

nmake -if makefile.nt clean 2>&1 | tee %TPCC_MSGS%\makefileNT.out

echo
~~~~~
~~~~~
echo ~~~~~ Making of crtb started at:
date /t
time /t
echo
~~~~~

echo *****
echo * build the table generator
echo *****
nmake -a -f makefile.nt crtb 2>&1 | tee %TPCC_MSGS%\makecrtb.out

echo
~~~~~
~~~~~
echo ~~~~~ Creation of tables started at:
date /t
time /t
echo
~~~~~

echo *****
echo * create the tables
echo *****
crtb 1 2>&1 | tee %TPCC_MSGS%\crtb.out

echo *****
echo * create HISTORY table with APPEND MODE
echo *****
db2 set client connect_node 0 attach_node 0
db2 connect reset
db2 terminate
db2stop

sleep 10

set DB2_TABLEAPPENDMODE=YES
db2start
crtb 7 2>&1 | tee %TPCC_MSGS%\crtb.out2
db2stop

echo
~~~~~
~~~~~
echo ~~~~~ Making of rest started at:
date /t
time /t

echo
~~~~~
~~~~~
rem *****
rem * build the remaining parts togen the database
rem *****
set DB2_TABLEAPPENDMODE=
sleep 10
db2start

nmake -i -f makefile.nt rest 2>&1 | tee %TPCC_MSGS%\makerest.out

REM echo "Now creating matview"
REM call create_matview_pok

echo
~~~~~
~~~~~
echo ~~~~~ Execution of tpccfg started at:
date /t
time /t
echo
~~~~~

echo *****
echo * Update DB CFG
echo *****
call tpccdbmcfg | tee %TPCC_MSGS%\tpccdbmcfg.out
call tpccdbcfg | tee %TPCC_MSGS%\tpccdbcfg.out

db2stop
sleep 10
db2start

echo off
echo *****Redistributeis necessary here because we need even distri,safe for 41760 ONLY
pause

set db2node=0
db2 -v connect to tpcc
db2 -v redistribute nodegroup tpccgroup using targetmap c:\tpcckit_mln\tpcc.out.pmap2
db2 -v terminate

set DB2NODE=1
REM db2 set client connect_node 0 attach_node 0
db2 connect to %TPCC_DBNAME%
echo
*****
*****
echo Tables in TPCC database:
echo
*****
*****
db2 list tables

echo
*****
*****
echo Loading Item1 Table ...
echo
*****
*****

sleep 10
gendata item > %TPCC_DATA1%\bitem.dat

REM db2 load from %TPCC_DATA1%\item.dat of del modified by noheader coldel"|"
messages %TPCC_MSGS%\item1_load.msg replace into item1 using %TPCC_TEMP%

echo "Now loading item table"
db2 load from %TPCC_DATA1%\bitem.dat of del modified by noheader coldel"|" messages
%TPCC_MSGS%\bitem_load.msg replace into item using %TPCC_TEMP%

db2 -v connect reset
db2 terminate
REM del %TPCC_DATA%\bitem.dat

```

```
echo "Now creating matview"
```

```
call create_matview
```

```
echo "*****Now we have to stop before loading any other tables
```

```
*****"
```

```
echo "*****You have to go to each node to gendata,loading,
```

```
*****"
```

```
echo "*****Indexing, runstats individually.
```

```
*****"
```

tpccenv.bat

```
REM echo off
```

```
set DB2INSTANCE=db2das00
```

```
db2stop
```

```
set DB2INSTANCE=TPCC
```

```
set DB2NODE=1
```

```
set TPCC_DBNAME=TPCC
```

```
set TPCC_ROOT=c:\tpcckit_mln
```

```
set TPCC_DBGEN=%TPCC_ROOT%\dbgen
```

```
set TPCC_SQLLIB=c:\sqllib
```

```
rem **** Note USER name is CASE SENSITIVE **** Use Upper case.
```

```
set TPCC_USER=TPCC
```

```
rem **** If we don't use named pipes, then:
```

```
rem **** Where delimited data for table loading will go
```

```
set TPCC_DATA1=f:\tpcc_data
```

```
set TPCC_DATA2=g:\tpcc_data
```

```
set TPCC_TEMP=f:\tpcc_temp
```

```
set TPCC_MSGS=f:\tpcc_msgs
```

```
set TPCC_OUT=f:\tpcc_out
```

```
set TPCC_EXP=f:\tpcc_exp
```

```
set TPCC_LOGDIR=\\.\PhysicalDrive1Partition1
```

```
rem **** Whether to use named pipes to load
```

```
set TPCC_LOADPIPE=N
```

```
rem **** Whether to delete delimited data after load
```

```
set TPCC_DELDATA=Y
```

```
rem * This is required for different config changes ie; bufferpool
```

```
set DB2_VERSION=v6
```

```
rem * Set the number of logs here. size is in pages
```

```
rem MAX log file size is 65535
```

```
set TPCC_LOGSIZE=50000
```

```
set TPCC_NUMLOGS=20
```

```
set TPCC_LOGSECOND=0
```

```
set TPCC_SOFTMAX=1000
```

```
rem * These setting should optimize the index andrunstat phases
```

```
set TPCC_SORT_THRESH=20000
```

```
set TPCC_SORT_HEAP_SZ=1024
```

```
set TPCC_STAT_HEAP_SZ=5000
```

```
set TPCC_TEMP_BUFF_SZ=1000
```

```
set TPCC_BUFF_PAGE_SZ=100000
```

```
set TPCC_UTIL_HEAP_SZ=102400
```

```
set TPCC_NUM_IOCLEANERS=16
```

```
db2set DB2COMM=tcPIP -i tpcc
```

```
db2set DB2TMPDIR=c:\TMP -i tpcc
```

```
db2set DB2INSTDEF=tpcc -i tpcc
```

```
db2set DB2ADMINSERVER=DB2DAS00 -i tpcc
```

```
db2set DB2NTNOCACHE=ON
```

```
db2set -all
```

```
db2start
```

crtdbtps.ddl

```
create nodegroup tpccgroup on nodes
```

```
(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32);
```

```
create nodegroup itemgroup on nodes (1);
```

```
connect to TPCC;
```

```
create temporary tablespace temporary in nodegroup IBMTEMPGROUP  
managed by database
```

```
using ( FILE 'c:\tpcc_tbs\temp' 51200) on node (0)
```

```
using ( device '\\.\PhysicalDrive2Partition11'288823,
```

```
device '\\.\PhysicalDrive3Partition11'288823,
```

```
device '\\.\PhysicalDrive4Partition11'288823,
```

```
device '\\.\PhysicalDrive5Partition11'288823,
```

```
device '\\.\PhysicalDrive6Partition11'288823,
```

```
device '\\.\PhysicalDrive7Partition11'288823,
```

```
device '\\.\PhysicalDrive8Partition11'288823,
```

```
device '\\.\PhysicalDrive9Partition11'288823,
```

```
device '\\.\PhysicalDrive10Partition11'288823,
```

```
device '\\.\PhysicalDrive11Partition11'288823,
```

```
device '\\.\PhysicalDrive12Partition11'288823,
```

```
device '\\.\PhysicalDrive13Partition11'288823,
```

```
device '\\.\PhysicalDrive14Partition11'288823,
```

```
device '\\.\PhysicalDrive15Partition11'288823) on node (1)
```

```
using ( device '\\.\PhysicalDrive2Partition11'288823,
```

```
device '\\.\PhysicalDrive3Partition11'288823,
```

```
device '\\.\PhysicalDrive4Partition11'288823,
```

```
device '\\.\PhysicalDrive5Partition11'288823,
```

```
device '\\.\PhysicalDrive6Partition11'288823,
```

```
device '\\.\PhysicalDrive7Partition11'288823,
```

```
device '\\.\PhysicalDrive8Partition11'288823,
```

```
device '\\.\PhysicalDrive9Partition11'288823,
```

```
device '\\.\PhysicalDrive10Partition11'288823,
```

```
device '\\.\PhysicalDrive11Partition11'288823,
```

```
device '\\.\PhysicalDrive12Partition11'288823,
```

```
device '\\.\PhysicalDrive13Partition11'288823,
```

```
device '\\.\PhysicalDrive14Partition11'288823,
```

```
device '\\.\PhysicalDrive15Partition11'288823) on node (2)
```

```
using ( device '\\.\PhysicalDrive2Partition11'288823,
```

```
device '\\.\PhysicalDrive3Partition11'288823,
```

```
device '\\.\PhysicalDrive4Partition11'288823,
```

```
device '\\.\PhysicalDrive5Partition11'288823,
```

```
device '\\.\PhysicalDrive6Partition11'288823,
```

```
device '\\.\PhysicalDrive7Partition11'288823,
```

```
device '\\.\PhysicalDrive8Partition11'288823,
```

```
device '\\.\PhysicalDrive9Partition11'288823,
```

```
device '\\.\PhysicalDrive10Partition11'288823,
```

```
device '\\.\PhysicalDrive11Partition11'288823,
```

```
device '\\.\PhysicalDrive12Partition11'288823,
```

```
device '\\.\PhysicalDrive13Partition11'288823,
```

```
device '\\.\PhysicalDrive14Partition11'288823,
```

```
device '\\.\PhysicalDrive15Partition11'288823) on node (3)
```

```
using ( device '\\.\PhysicalDrive2Partition11'288823,
```

```
device '\\.\PhysicalDrive3Partition11'288823,
```

```
device '\\.\PhysicalDrive4Partition11'288823,
```

```
device '\\.\PhysicalDrive5Partition11'288823,
```

```
device '\\.\PhysicalDrive6Partition11'288823,
```

```
device '\\.\PhysicalDrive7Partition11'288823,
```

```
device '\\.\PhysicalDrive8Partition11'288823,
```

```
device '\\.\PhysicalDrive9Partition11'288823,
```

```
device '\\.\PhysicalDrive10Partition11'288823,
```

```
device '\\.\PhysicalDrive11Partition11'288823,
```

```
device '\\.\PhysicalDrive12Partition11'288823,
```

```
device '\\.\PhysicalDrive13Partition11'288823,
```

```
device '\\.\PhysicalDrive14Partition11'288823,
```

```
device '\\.\PhysicalDrive15Partition11'288823) on node (4)
```

```
using ( device '\\.\PhysicalDrive2Partition11'288823,
```

```
device '\\.\PhysicalDrive3Partition11'288823,
```

```
device '\\.\PhysicalDrive4Partition11'288823,
```

```
device '\\.\PhysicalDrive5Partition11'288823,
```

```
device '\\.\PhysicalDrive6Partition11'288823,
```

```
device '\\.\PhysicalDrive7Partition11'288823,
```

```
device '\\.\PhysicalDrive8Partition11'288823,
```

```
device '\\.\PhysicalDrive9Partition11'288823,
```

```
device '\\.\PhysicalDrive10Partition11'288823,
```

```
device '\\.\PhysicalDrive11Partition11'288823,
```

```
device '\\.\PhysicalDrive12Partition11'288823,
```

```
device '\\.\PhysicalDrive13Partition11'288823,
```

```
device '\\.\PhysicalDrive14Partition11'288823,
```

```
device '\\.\PhysicalDrive15Partition11'288823) on node (5)
```

```
using ( device '\\.\PhysicalDrive2Partition11'288823,
```

```
device '\\.\PhysicalDrive3Partition11'288823,
```

```
device '\\.\PhysicalDrive4Partition11'288823,
```


[illegible]

[illegible]

[illegible]

[illegible]


```

device '\\PhysicalDrive3Partition7470439,
device '\\PhysicalDrive4Partition7470439,
device '\\PhysicalDrive5Partition7470439,
device '\\PhysicalDrive6Partition7470439,
device '\\PhysicalDrive7Partition7470439,
device '\\PhysicalDrive8Partition7470439,
device '\\PhysicalDrive9Partition7470439,
device '\\PhysicalDrive10Partition7470439,
device '\\PhysicalDrive11Partition7470439,
device '\\PhysicalDrive12Partition7470439,
device '\\PhysicalDrive13Partition7470439,
device '\\PhysicalDrive14Partition7470439,
device '\\PhysicalDrive15Partition7470439) on node (32)
prefetchsize 0 extentsize 32;

```

drop tablespace tempbase1;

connect reset;

crtb.sqc

```

/*****
/* file: crtbs.sqc */
/* create the tpcc database tables */
*****/

#include "ctest.h"
#include "../include/lval.h"
#include <stdlib.h>

EXEC SQL include sqlca ;
EXEC SQL include sqllda ;

EXEC SQL BEGIN DECLARE SECTION; /* Declare Host Variables */
char ermsg[201];
long ware_num ;
long dist_num ;
long cust_num ;
long ord_num ;
long oline_num ;
long count ;
long ware_count ;
char dbname[8] = "tpcc";
EXEC SQL END DECLARE SECTION;

int i, j;

int main ( void );
int create_bitem_tbl( void );
int create_stock_tbl( void );
int create_ware_tbl( void );
int create_dist_tbl( void );
int create_cust_tbl( void );
int create_hist_tbl( void );
int create_nu_ord_tbl( void );
int create_ordr_tbl( void );
int create_oline_tbl( void );
int create_item1_tbl( void );

/*-----*/
/* main */
/*-----*/

int main ( int argc, char *argv[])
{
char str[80];
char msg[30];
int option;
int rc = ERR_NO_ERROR;

char *dbname_ptr;
if ((dbname_ptr = getenv("TPCC_DBNAME")) != NULL) {
strcpy (dbname, dbname_ptr);
}

```

```

EXEC SQL CONNECT TO :dbname IN EXCLUSIVE MODE;
sprintf(msg, "CONNECT TO %s", dbname);
SQLERR(&sqlca, msg);

```

```

if (argc == 2)
{
option = atoi(argv[1]);
}
else
{
printf(stdout, "Pick table to be created: \n");
printf(stdout, "1. all tables (ITEM with no extra col)\n");
printf(stdout, "2. warehouse \n");
printf(stdout, "3. district \n");
printf(stdout, "4. bitem \n");
printf(stdout, "5. stock \n");
printf(stdout, "6. customer \n");
printf(stdout, "7. history \n");
printf(stdout, "8. orders \n");
printf(stdout, "9. new-order \n");
printf(stdout, "10. order-line \n");
printf(stdout, "11. item1 \n");
printf(stdout, "12. item with extra col \n");
printf(stdout, "\nEnter option: ");
scanf("%d", &option);
}

```

```

switch (option) {
case 1: /* ALL */
if (create_ware_tbl()) rc = ERR_CREATE_WARE;
if (create_dist_tbl()) rc = ERR_CREATE_DIST;
if (create_bitem_tbl()) rc = ERR_CREATE_ITEM;
if (create_stock_tbl()) rc = ERR_CREATE_STOCK;
if (create_cust_tbl()) rc = ERR_CREATE_CUST;
if (create_hist_tbl()) rc = ERR_CREATE_HIST;
if (create_ordr_tbl()) rc = ERR_CREATE_ORDER;
if (create_nu_ord_tbl()) rc = ERR_CREATE_NEWORD;
if (create_oline_tbl()) rc = ERR_CREATE_OLINE;
break;
case 2: /* WAREHOUSE */
if (create_ware_tbl()) rc = ERR_CREATE_WARE;
break;
case 3: /* DISTRICT */
if (create_dist_tbl()) rc = ERR_CREATE_DIST;
break;
case 4: /* ITEM */
if (create_bitem_tbl()) rc = ERR_CREATE_ITEM;
break;
case 5: /* STOCK */
if (create_stock_tbl()) rc = ERR_CREATE_STOCK;
break;
case 6: /* CUSTOMER */
if (create_cust_tbl()) rc = ERR_CREATE_CUST;
break;
case 7: /* HISTORY */
if (create_hist_tbl()) rc = ERR_CREATE_HIST;
break;
case 8: /* ORDERS */
if (create_ordr_tbl()) rc = ERR_CREATE_ORDER;
break;
case 9: /* NEW_ORDER */
if (create_nu_ord_tbl()) rc = ERR_CREATE_NEWORD;
break;
case 10: /* ORDER_LINE */
if (create_oline_tbl()) rc = ERR_CREATE_OLINE;
break;
case 11: /* ITEM1 */
if (create_item1_tbl()) rc = ERR_CREATE_ITEM1;
break;
case 12: /* ITEM WITH EXTRA COL */
if (create_item2_tbl()) rc = ERR_CREATE_ITEM1;
break;
default:
printf(stdout, "error: invalid option. \n");
rc = ERR_INVALID_OPTION;
break;
}

```

```

EXEC SQL COMMIT WORK;      SQLERR(&sqlca, "COMMIT");

EXEC SQL CONNECT RESET;    SQLERR(&sqlca, "CONNECT RESET");

return rc;
}

/*-----*/
/*  create item1 table      */
/*-----*/
int create_item1_tbl( void )
{
    fprintf(stdout, "building item1 table ...\n");

EXEC SQL DROP TABLE ITEM1;
EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

EXEC SQL create table ITEM1
(
    I_ID      INTEGER NOT NULL,
    I_IM_ID   INTEGER NOT NULL,
    I_NAME     CHAR(24) NOT NULL,
    I_PRICE    INTEGER NOT NULL,
    I_DATA     VARCHAR(50) NOT NULL /* sas03 */
)
in item1
index in item1
;
if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "create table ITEM1");
return(sqlca.sqlcode);
}

/*-----*/
/*  create item table with extra col      */
/*-----*/
int create_item2_tbl( void )
{
    fprintf(stdout, "building item2 table ...\n");

EXEC SQL DROP TABLE ITEM;
EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

EXEC SQL create table ITEM
(
    I_NODE_ID  INTEGER NOT NULL,
    I_ID        INTEGER NOT NULL,
    I_IM_ID     INTEGER NOT NULL,
    I_NAME      CHAR(24) NOT NULL,
    I_PRICE     INTEGER NOT NULL,
    I_DATA      VARCHAR(50) NOT NULL /* sas03 */
)
in wdi
index in wdi
partitioning key (I_NODE_ID) using hashing
;
if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "create table ITEM2");
return(sqlca.sqlcode);
}

/*-----*/
/*  create bitem table  (now called item table)      */
/*-----*/
int create_bitem_tbl( void )
{
    fprintf(stdout, "building item table ...\n");

EXEC SQL DROP TABLE ITEM;
EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

EXEC SQL create table ITEM
(
    I_ID      INTEGER NOT NULL,
    I_IM_ID   INTEGER NOT NULL,
    I_NAME     CHAR(24) NOT NULL,
    I_PRICE    INTEGER NOT NULL,
    I_DATA     VARCHAR(50) NOT NULL /* sas03 */
)

```

```

in item1
index in item1
;
if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "create table ITEM");
return(sqlca.sqlcode);
}

/*-----*/
/*  create stock table      */
/*-----*/
int create_stock_tbl( void )
{
    fprintf(stdout, "building stock table ...\n");

EXEC SQL DROP TABLE STOCK;
EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

EXEC SQL create table STOCK
(
    S_I_ID      INTEGER NOT NULL,
    S_W_ID      INTEGER NOT NULL, /* @000516AYL */
    S_REMOTE_CNT SMALLINT NOT NULL,
    S_QUANTITY   SMALLINT NOT NULL,
    S_ORDER_CNT  SMALLINT NOT NULL,
    S_YTD        INTEGER NOT NULL,
    S_DIST_01    CHAR(24) NOT NULL,
    S_DIST_02    CHAR(24) NOT NULL,
    S_DIST_03    CHAR(24) NOT NULL,
    S_DIST_04    CHAR(24) NOT NULL,
    S_DIST_05    CHAR(24) NOT NULL,
    S_DIST_06    CHAR(24) NOT NULL,
    S_DIST_07    CHAR(24) NOT NULL,
    S_DIST_08    CHAR(24) NOT NULL,
    S_DIST_09    CHAR(24) NOT NULL,
    S_DIST_10    CHAR(24) NOT NULL,
    S_DATA       VARCHAR(50) NOT NULL /* sas03 */
)
in stock
index in stock_index
partitioning key (S_W_ID) using hashing
;
if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "create table STOCK");
return(sqlca.sqlcode);
}

/*-----*/
/*  create warehouse table      */
/*-----*/
int create_ware_tbl( void )
{
    fprintf(stdout, "building warehouse table...\n");

EXEC SQL DROP TABLE WAREHOUSE;
EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

EXEC SQL create table WAREHOUSE
(
    W_ID      INTEGER NOT NULL, /* @000516AYL */
    W_NAME     CHAR(10) NOT NULL,
    W_STREET_1 CHAR(20) NOT NULL,
    W_STREET_2 CHAR(20) NOT NULL,
    W_CITY     CHAR(20) NOT NULL,
    W_STATE    CHAR(2) NOT NULL,
    W_ZIP      CHAR(9) NOT NULL,
    W_TAX      FLOAT NOT NULL, /* sas01 */
    W_TAX      REAL NOT NULL,
    W_YTD      DECIMAL(12,2) NOT NULL /* sas01 */
    W_YTD      DOUBLE NOT NULL
)
in wdi
index in wdi
partitioning key (W_ID) using hashing
;
if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "12");
return(sqlca.sqlcode);
}

```

```

/*-----*/
/* create dist table */
/*-----*/
int create_dist_tbl( void )
{
    fprintf(stdout, "building district table ...\n");

    EXEC SQL DROP TABLE DISTRICT;
    EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

    EXEC SQL create table DISTRICT
    (
        D_ID      SMALLINT    NOT NULL,
        D_W_ID    INTEGER      NOT NULL, /* @000516AYL */
        D_NAME    CHAR(10)     NOT NULL,
        D_STREET_1 CHAR(20)     NOT NULL,
        D_STREET_2 CHAR(20)     NOT NULL,
        D_CITY    CHAR(20)     NOT NULL,
        D_STATE   CHAR(2)      NOT NULL,
        D_ZIP     CHAR(9)      NOT NULL,
        /* D_TAX    FLOAT        NOT NULL,      sas01 */
        D_TAX     REAL         NOT NULL,
        /* D_YTD    DECIMAL(12,2) NOT NULL,      sas01 */
        D_YTD     DOUBLE       NOT NULL,
        D_NEXT_O_ID INTEGER     NOT NULL
    )
    in wdi
    index in wdi
    partitioning key (D_W_ID) using hashing
    ;
    if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "");
    return(sqlca.sqlcode);
}

/*-----*/
/* create customer table */
/*-----*/
int create_cust_tbl( void )
{
    fprintf(stdout, "building customer table ...\n");
    EXEC SQL DROP TABLE CUSTOMER;
    EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

    EXEC SQL create table CUSTOMER
    (
        C_ID      INTEGER      NOT NULL,
        C_D_ID    SMALLINT     NOT NULL,
        C_W_ID    INTEGER      NOT NULL, /* @000516AYL */
        C_FIRST   VARCHAR(16)   NOT NULL,
        C_MIDDLE  CHAR(2)       NOT NULL,
        C_LAST    VARCHAR(16)   NOT NULL,
        C_STREET_1 VARCHAR(20)   NOT NULL, /* sas03 */
        C_STREET_2 VARCHAR(20)   NOT NULL, /* sas03 */
        C_CITY    VARCHAR(20)   NOT NULL, /* sas03 */
        C_STATE   CHAR(2)       NOT NULL,
        C_ZIP     CHAR(9)       NOT NULL,
        C_PHONE   CHAR(16)      NOT NULL,
        /* C_SINCE  TIMESTAMP    NOT NULL,      sas02 */
        C_SINCE   BIGINT        NOT NULL,
        C_CREDIT  CHAR(2)       NOT NULL,
        /* C_CREDIT_LIM DECIMAL(12,2) NOT NULL,      sas01 */
        C_CREDIT_LIM DOUBLE     NOT NULL,
        /* C_DISCOUNT FLOAT      NOT NULL,      sas01 */
        C_DISCOUNT REAL        NOT NULL,
        C_DELIVERY_CNT SMALLINT  NOT NULL,
        /* C_BALANCE  DECIMAL(12,2) NOT NULL,      sas01 */
        C_BALANCE  DOUBLE       NOT NULL,
        /* C_YTD_PAYMENT DECIMAL(12,2) NOT NULL,      sas01 */
        C_YTD_PAYMENT DOUBLE    NOT NULL,
        C_PAYMENT_CNT SMALLINT  NOT NULL,
        C_DATA1    CHAR(250)    NOT NULL,
        C_DATA2    CHAR(250)    NOT NULL
    )
    in customer
    index in customer_index
    partitioning key (C_W_ID) using hashing
    ;
    if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "");
}

```

```

    return(sqlca.sqlcode);
}

/*-----*/
/* create hist table */
/*-----*/
int create_hist_tbl( void )
{
    fprintf(stdout, "building hist table ...\n");

    EXEC SQL DROP TABLE HISTORY;
    EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

    EXEC SQL create table HISTORY
    (
        H_C_ID    INTEGER      NOT NULL,
        H_C_D_ID  SMALLINT     NOT NULL,
        H_C_W_ID  INTEGER      NOT NULL, /* @000516AYL */
        H_D_ID    SMALLINT     NOT NULL,
        H_W_ID    INTEGER      NOT NULL, /* @000516AYL */
        /* H_DATE   TIMESTAMP    NOT NULL,      sas02 */
        H_DATE    BIGINT        NOT NULL,
        H_AMOUNT  INTEGER      NOT NULL,
        H_DATA    CHAR(24)     NOT NULL /* data in the original row is
                                         average 18 bytes; rows added
                                         in payment transaction have
                                         average 20 bytes (24 if you
                                         count W_NAME and D_NAME as 10) */
    )
    in hist
    index in hist
    partitioning key (H_W_ID) using hashing
    ;
    if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "");
    return(sqlca.sqlcode);
}

/*-----*/
/* create nu_ord table */
/*-----*/
int create_nu_ord_tbl( void )
{
    fprintf(stdout, "building nu_ord table ...\n");

    EXEC SQL DROP TABLE NEW_ORDER;
    EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

    EXEC SQL create table NEW_ORDER
    (
        NO_O_ID   INTEGER      NOT NULL,
        NO_D_ID   SMALLINT     NOT NULL,
        NO_W_ID   INTEGER      NOT NULL /* @000516AYL */
    )
    in ornu
    index in ornu
    partitioning key (NO_W_ID) using hashing
    ;
    if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "3");
    return(sqlca.sqlcode);
}

/*-----*/
/* create orders table */
/*-----*/
int create_ordr_tbl( void )
{
    fprintf(stdout, "building orders table ...\n");
    EXEC SQL DROP TABLE ORDERS;
    EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

    EXEC SQL create table ORDERS
    (
        O_ID      INTEGER      NOT NULL,
        O_C_ID    INTEGER      NOT NULL,

```

```

O_D_ID      SMALLINT  NOT NULL,
O_W_ID      INTEGER   NOT NULL, /* @000516AYL */
/* O_ENTRY_D  TIMESTAMP NOT NULL,      sas02 */
O_ENTRY_D   BIGINT    NOT NULL,
O_CARRIER_ID SMALLINT NOT NULL,
O_OL_CNT    SMALLINT  NOT NULL,
O_ALL_LOCAL SMALLINT  NOT NULL
)
in ornu
index in ornu
partitioning key (O_W_ID) using hashing
;
if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "2");
return(sqlca.sqlcode);
}

/*-----*/
/* create order_line table */
/*-----*/

int create_oline_tbl( void )
{
fprintf(stdout, "building order_line table ...\\n");
EXEC SQL DROP TABLE ORDER_LINE;
EXEC SQL COMMIT WORK; SQLERR(&sqlca, "COMMIT");

EXEC SQL create table ORDER_LINE
(
OL_O_ID      INTEGER NOT NULL,
OL_D_ID      SMALLINT NOT NULL,
OL_W_ID      INTEGER NOT NULL, /* @000516AYL */
OL_NUMBER    SMALLINT NOT NULL,
OL_I_ID      INTEGER NOT NULL,
OL_SUPPLY_W_ID INTEGER NOT NULL, /* @000516AYL */
/* OL_DELIVERY_D  TIMESTAMP NOT NULL,      sas02 */
OL_DELIVERY_D BIGINT NOT NULL,
OL_QUANTITY  SMALLINT NOT NULL,
OL_AMOUNT    INTEGER NOT NULL,
OL_DIST_INFO CHAR(24) NOT NULL
)
in order_line_data
index in order_line_index
partitioning key (OL_W_ID) using hashing
;
if (sqlca.sqlcode != 0)  SQLERR(&sqlca, "6");
return(sqlca.sqlcode);
}

```

tpccdbmcfg.bat

REM @echo off

```

rem *****
rem Update database and database manager
rem configuration parameters
rem *****

```

call \tpckit_mln\tpccenv.bat

```

db2 reset dbm cfg
db2 -v update dbm cfg using FCM_NUM_BUFFERS 10240
db2 -v update dbm cfg using FCM_NUM_RQB 9216
db2 -v update dbm cfg using NUM_POOLAGENTS 1600 NUM_INITAGENTS 1600
MAXAGENTS 5000
db2 -v update dbm cfg using MAXTOTFILOP 32000
db2 -v update dbm cfg using COMM_BANDWIDTH 100
db2 -v update dbm cfg using MAX_QUERYDEGREE 1
db2 -v update dbm cfg using NUMDB 1
db2 -v update dbm cfg using MAXDARI 1
REM db2 -v update dbm cfg using SQLSTMTSZ 0
db2 -v update dbm cfg using CPUSPEED -1
db2 -v update dbm cfg using MIN_PRIV_MEM 64
db2 -v update dbm cfg using PRIV_MEM_THRESH 1296
db2 -v update dbm cfg using AGENT_STACK_SZ 32

```

```

db2 -v update dbm cfg using DIAGLEVEL 3
db2 -v update dbm cfg using NOTIFYLEVEL 0
db2 -v update dbm cfg using mon_heap_sz 1024
db2 -v update dbm cfg using RESYNC_INTERVAL 1800
db2 -v update dbm cfg using SVCENAME db2cTPCC
db2 -v update dbm cfg using AUTHENTICATION client
db2 -v update dbm cfg using INTRA_PARALLEL NO
db2 -v update dbm cfg using SHEAPTHRES %TPCC_SORT_THRESH%
db2 -v update dbm cfg using START_STOP_TIME 4
rem
rem DBM - Tuning parameters
rem
db2 -v update dbm cfg using AGENTPRI 6

REM db2start

db2 connect reset

```

tpccdbcfg.bat

```

REM This is for all nodes
db2 connect reset
db2 terminate
db2stop
sleep 10
call \tpckkit_mln\tpccenv.bat
sleep 10
db2start
set RAH_DO_ALL_LOGICAL_NODES=YES
rah "| db2 update db cfg for %TPCC_DBNAME% using DFT_QUERYOPT 0"
rah "| db2 update db cfg for %TPCC_DBNAME% using SORTHEAP
%TPCC_SORT_HEAP_SZ%"
rah "| db2 update db cfg for %TPCC_DBNAME% using STAT_HEAP_SZ
%TPCC_STAT_HEAP_SZ%"
rah "| db2 update db cfg for %TPCC_DBNAME% using DLCHKTIME 10000"
rah "| db2 update db cfg for %TPCC_DBNAME% using LOCKLIST 2000"
rah "| db2 update db cfg for %TPCC_DBNAME% using MAXLOCKS 90"
rah "| db2 update db cfg for %TPCC_DBNAME% using DFT_PREFETCH_SZ 0"
rah "| db2 update db cfg for %TPCC_DBNAME% using SEQDETECT NO"
rah "| db2 update db cfg for %TPCC_DBNAME% using APPLHEAPSZ 12800"
rah "| db2 update db cfg for %TPCC_DBNAME% using UTIL_HEAP_SZ
%TPCC_UTIL_HEAP_SZ%"
rah "| db2 update db cfg for %TPCC_DBNAME% using PCKCACHESZ 2560"

rah "| db2 -v update db cfg for %TPCC_DBNAME% using LOGBUFSZ 512"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using DBHEAP 4096"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using CATALOGCACHE_SZ 64"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using LOGPRIMARY
%TPCC_NUMLOGS%"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using LOGSECOND
%TPCC_LOGSECOND%"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using LOGFILSIZ
%TPCC_LOGSIZE%"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using SOFTMAX
%TPCC_SOFTMAX%"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using NEWLOGPATH
%TPCC_LOGDIR%"

echo "Reset the log path back to default on node 0"
set db2node=0
db2 -v update db cfg for tpcc using softmax 200
db2 -v update db cfg for tpcc using logprimary 2 logfilsiz 5000 logsecond 0
db2 -v update db cfg for tpcc using newlogpath
C:\TPCC\NODE0000\SQL00001\SQLLOGDIR
db2 terminate
rem
rem DB - Buffer pool parameters
rem
rah "| db2 -v update db cfg for %TPCC_DBNAME% using BUFFPAGE
%TPCC_BUFF_PAGE_SZ%"
set db2node=0
db2 -v update db cfg for %TPCC_DBNAME% using BUFFPAGE 256

db2 -v connect to %TPCC_DBNAME%
db2 -v alter bufferpool ibmdefaultbp size -1

```

```
rem
rem DB - Tuning parameters

rah "| db2 -v update db cfg for %TPCC_DBNAME% using NUM_IOSERVERS 1"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using NUM_IOCLEANERS
%TPCC_NUM_IOCLEANERS%"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using DFT_EXTENT_SZ 8"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using CHNGPGS_THRESH 60"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using MINCOMMIT 3"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using MAXAPPLS 3000"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using AVG_APPLS 1000"
rah "| db2 -v update db cfg for %TPCC_DBNAME% using MAXFILOP 600"

db2 -v connect reset
db2 -v terminate
```

tpcc.out.pmap2

[illegible][illegible]

```

27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
20 21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 23 28 29 30
31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 32 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

```

create_matview.bat

```

db2 connect reset
db2 terminate
db2stop

```

```
call ..\tpccenv.bat
```

```
echo "now in create_matview.bat"
```

```

db2start
db2 -v change ISOLATION to RR
db2 connect to %TPCC_DBNAME%

```

```

db2 -v "create table r_item as (select item.* from item) data initially deferred refresh
immediate replicated in wdi"

```

```

db2 list tables
db2 -v "select count(*) from item"
db2 -v "select count(*) from r_item"

```

```

db2 -v "refresh table r_item"
db2 -v "select count(*) from r_item"

```

```
cd ..dbgen
```

```

@date /t
@time /t
db2 -v "create index r_item_idx on tpcc.r_item (i_id asc)"

```

```

echo Running runstat for the replicated table R_ITEM
db2 -v "runstats on table tpcc.r_item and indexes all shrlevel reference"

```

```

echo Running runstat for the base table ITEM
db2 -v "runstats on table tpcc.item and indexes all shrlevel reference"

```

index_runstat_two.bat

```

@echo off
call ..\tpccenv1.bat
db2 -v connect to tpcc

```

```

@date /t
@time /t
@echo on
echo Creating index ONLY for table 10 ...
cridx 10 2>&1 | tee %TPCC_MSGS%\orlidx.out

```

```
echo Creating index for table 5 ...
```

```

cridx 5 2>&1 | tee %TPCC_MSGS%\stkidx.out
rnstats 5 2> %TPCC_MSGS%\stkrstat.err | tee %TPCC_MSGS%\stkrstat.out

```

```

echo Creating index for table 7 ...
cridx 7 2>&1 | tee %TPCC_MSGS%\hisidx.out
rnstats 7 2> %TPCC_MSGS%\hisrstat.err | tee %TPCC_MSGS%\hisrstat.out

```

```

echo Creating index for table 8 ...
cridx 8 2>&1 | tee %TPCC_MSGS%\ordidx.out
rnstats 8 2> %TPCC_MSGS%\ordrstat.err | tee %TPCC_MSGS%\ordrstat.out

```

```

echo Creating index for table 9 ...
cridx 9 2>&1 | tee %TPCC_MSGS%\nodidx.out
rnstats 9 2> %TPCC_MSGS%\nodrstat.err | tee %TPCC_MSGS%\nodrstat.out

```

```

db2 terminate
@date /t
@time /t

```

tpccdbcfg_building.bat

```
REM This is for all nodes
```

```

db2 connect reset
db2 terminate
db2stop
sleep 10
call \tpcckit_mln\tpccenv1.bat
db2 update dbm cfg using sheapthres 204800
sleep 10
db2start
set RAH_DO_ALL_LOGICAL_NODES=YES
rah "<<-< db2 update db cfg for %TPCC_DBNAME% using SORTHEAP 102400"
rah "<<-< db2 update db cfg for %TPCC_DBNAME% using UTIL_HEAP_SZ
102400"
rah "<<-< db2 -v update db cfg for %TPCC_DBNAME% using DBHEAP 10240"
rem
rah "<<-< db2 -v update db cfg for %TPCC_DBNAME% using BUFFPAGE 102400"
db2 -v connect to tpcc
db2 -v alter bufferpool ibmdefaultbp size -1
db2 -v connect reset
db2 -v terminate

```

cridx.sqc

```

/*****
/*
*/
*****/

```

```

#include "../include/ctest.h"
#include "../include/lval.h"

```

```

EXEC SQL include sqlca ;
EXEC SQL include sqllda ;

/* PROTOTYPES. */

```

```

void crix_dist_tbl( void );
void crix_cust_tbl( void );
void crix_cust_idx2( void );
void crix_hist_tbl( void );
void crix_nu_ord_tbl( void );
void crix_ordr_tbl( void );
void crix_oline_tbl( void );
void crix_item_tbl( void );
void crix_item2_tbl( void );
void crix_stock_tbl( void );
void crix_ware_tbl( void );

```

```

EXEC SQL BEGIN DECLARE SECTION; /* Declare Host Variables */
char ermsg[201];
long ware_num;
long dist_num;
long cust_num;
long ord_num;
long oline_num;
long count;
long ware_count;
char dbname[8] = "tpcc";

```

```

EXEC SQL END DECLARE SECTION;

int i, j;
double timestamp1,    timestamp2,    elapse;

/*-----*/
/*  main                                */
/*-----*/

int main ( int argc, char *argv[])
{
    int option;
    char str[80];
    char msg[30];

    char *dbname_ptr;
    if ((dbname_ptr = getenv("TPCC_DBNAME")) != NULL) {
        strcpy (dbname, dbname_ptr);
    }

    EXEC SQL CONNECT TO :dbname IN SHARE MODE;
    sprintf(msg, "CONNECT TO %s", dbname);
    SQLERR(&sqlca, msg);

    if (argc == 2)
    {
        option = atoi(argv[1]);
    }
    else
    {
        fprintf(stdout, "Pick table to create index on: \n");
        fprintf(stdout, "1. all tables \n");
        fprintf(stdout, "2. warehouse \n");
        fprintf(stdout, "3. district \n");
        fprintf(stdout, "4. item \n");
        fprintf(stdout, "5. stock \n");
        fprintf(stdout, "6. customer \n");
        fprintf(stdout, "7. history \n");
        fprintf(stdout, "8. orders \n");
        fprintf(stdout, "9. new-order \n");
        fprintf(stdout, "10. order-line \n");
        fprintf(stdout, "11. customer (cust_idx2) only \n");
        fprintf(stdout, "12. item (with extra col) \n");
        fprintf(stdout, "\nEnter option: ");
        scanf("%d", &option);
    }

    switch (option) {
    case 1: /* ALL */
        crix_ware_tbl();
        crix_dist_tbl();
        crix_item_tbl();
        crix_stock_tbl();
        crix_cust_tbl();
        crix_hist_tbl();
        crix_ordr_tbl();
        crix_nu_ord_tbl();
        crix_oline_tbl();
        break;
    case 2: /* WAREHOUSE */
        crix_ware_tbl();
        break;
    case 3: /* DISTRICT */
        crix_dist_tbl();
        break;
    case 4: /* ITEM */
        crix_item_tbl();
        break;
    case 5: /* STOCK */
        crix_stock_tbl();
        break;
    case 6: /* CUSTOMER */
        crix_cust_tbl();
        break;
    case 7: /* HISTORY */
        crix_hist_tbl();
        break;
    case 8: /* ORDERS */
        crix_ordr_tbl();
        break;
    case 9: /* NEW_ORDER */
        crix_nu_ord_tbl();
        break;
    case 10: /* ORDER_LINE */
        crix_oline_tbl();
        break;
    case 11: /* CUST_IDX1 only */
        crix_cust_idx2();
        break;
    case 12: /* ITEM with extra col */
        crix_item2_tbl();
        break;
    case 99: /* ALL STATIC TABLES */
        crix_item_tbl();
        crix_stock_tbl();
        crix_cust_tbl();
        crix_ware_tbl();
        crix_dist_tbl();
        break;
    case 100: /* ALL OTHER TABLES */
        crix_hist_tbl();
        crix_ordr_tbl();
        crix_nu_ord_tbl();
        crix_oline_tbl();
        break;

    default:
        fprintf(stdout, "error: invalid option. \n");    break;
    }
    EXEC SQL COMMIT WORK;    SQLERR(&sqlca, "COMMIT");
    EXEC SQL CONNECT RESET;    SQLERR(&sqlca, "CONNECT RESET");
}

/*-----*/
/*  create index for item table                                */
/*-----*/

void crix_item_tbl( void )
{
    fprintf(stderr, "Create index for ITEM table.\n");
    timestamp1 = current_time();
    EXEC SQL DROP INDEX item_idx1;

    // EXEC SQL CREATE UNIQUE INDEX item_idx1 on ITEM(i_id)
    //      include(i_price,i_name,i_data);
    EXEC SQL CREATE INDEX item_idx1 on ITEM (i_id asc);
    //      include(i_price,i_name,i_data);

    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Create index for ITEM");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("Item table index created in %8.2f seconds.\n", elapse);
}

/*-----*/
/*  create index for item table with extra col                                */
/*-----*/

void crix_item2_tbl( void )
{
    fprintf(stderr, "Create index for ITEM table.\n");
    timestamp1 = current_time();
    EXEC SQL DROP INDEX item_idx1;

    EXEC SQL CREATE UNIQUE INDEX item_idx1 on ITEM(i_id, i_node_id)
        include(i_price,i_name,i_data);

    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Create index for ITEM2");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("Item2 table index created in %8.2f seconds.\n", elapse);
}

```

```

}

/*-----*/
/* create index for stock table */
/*-----*/

void crix_stock_tbl( void )
{
    /* WWW 94/6/6: Reversed order of columns in index for 100% clustering*/
    fprintf(stderr, "Create index for STOCK table.\n");
    timestamp1 = current_time();
    EXEC SQL DROP INDEX stock_idx1;

    /* EXEC SQL CREATE UNIQUE INDEX stock_idx1 on STOCK(s_w_id, s_i_id); */

    EXEC SQL CREATE UNIQUE INDEX stock_idx1 on STOCK(s_i_id, s_w_id)
        include (s_quantity);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Create index for STOCK");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("Stock table index created in %8.2f seconds.\n", elapse);
}

/*-----*/
/* create index for warehouse table */
/*-----*/

void crix_ware_tbl( void )
{
    fprintf(stderr, "Create index for WAREHOUSE table.\n");
    timestamp1 = current_time();
    EXEC SQL drop index ware_idx1;
    EXEC SQL create unique index ware_idx1 on WAREHOUSE(W_ID)
        include (w_tax);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Create index for WAREHOUSE");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("Warehouse index created in %8.2f seconds.\n", elapse);
}

/*-----*/
/* create index for dist table */
/*-----*/

void crix_dist_tbl( void )
{
    fprintf(stderr, "Create index for DISTRICT table.\n");
    timestamp1 = current_time();
    EXEC SQL drop index dist_idx1;
    /** Why hasn't this index been made clustered ??--Amit 08/15 **/
    EXEC SQL create unique index dist_idx1 on DISTRICT(d_id, d_w_id);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Create index for DISTRICT");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("District table index created in %8.2f seconds.\n", elapse);
}

/*-----*/
/* create index for customer table */
/*-----*/

void crix_cust_tbl( void )
{
    fprintf(stderr, "Create index for CUSTOMER table.\n");

    timestamp1 = current_time();
    EXEC SQL drop index cust_idx1;
    EXEC SQL create unique index cust_idx1 on CUSTOMER(c_w_id, c_d_id, c_id);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Create index1 for CUSTOMER");
    EXEC SQL drop index cust_idx2;
    EXEC SQL create index cust_idx2 on CUSTOMER(c_w_id, c_d_id, c_last, c_first, c_id);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Create index2 for CUSTOMER");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
}

```

```

    elapse = timestamp2 - timestamp1;
    printf("Customer table index created in %8.2f seconds.\n", elapse);
}

/*-----*/
/* create cust_idx2 for customer table */
/*-----*/

void crix_cust_idx2( void )
{
    fprintf(stderr, "Create cust_idx2 for CUSTOMER table.\n");

    timestamp1 = current_time();
    EXEC SQL drop index cust_idx2;
    EXEC SQL create index cust_idx2 on CUSTOMER(c_w_id, c_d_id, c_last, c_first, c_id);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Create index2 for CUSTOMER");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("Customer table index created in %8.2f seconds.\n", elapse);
}

/*-----*/
/* create index for hist table */
/*-----*/

void crix_hist_tbl( void )
{
    fprintf(stderr, "No index is to be built for HISTORY table.\n");
}

/*-----*/
/* create index for nu_ord table */
/*-----*/

void crix_nu_ord_tbl( void )
{
    fprintf(stderr, "Create index for NEW_ORDER table.\n");
    timestamp1 = current_time();
    EXEC SQL drop index nu_ord_idx1;
    EXEC SQL create unique index nu_ord_idx1 on NEW_ORDER
        (no_w_id, no_d_id, no_o_id);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Create index for NEW_ORDER");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("New_order table index created in %8.2f seconds.\n", elapse);
}

/*-----*/
/* create index for order table */
/*-----*/

void crix_ordr_tbl( void )
{
    fprintf(stderr, "Create index for ORDERS table.\n");
    timestamp1 = current_time();
    EXEC SQL drop index ordr_idx1;
    EXEC SQL create unique index ordr_idx1
        on ORDERS(o_w_id, o_d_id, o_id);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Create index1 for ORDERS");
    EXEC SQL drop index ordr_idx2;
    EXEC SQL create unique index ordr_idx2
        on ORDERS(o_w_id, o_d_id, o_c_id, o_id desc);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Create index2 for ORDERS");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("Orders table index created in %8.2f seconds.\n", elapse);
}

/*-----*/
/* create index for order-line table */
/*-----*/

```

```
/*-----*/
```

```
void crx_oline_tbl( void )
{
    fprintf(stderr, "Create index for ORDER_LINE table.\n");
    timestamp1 = current_time();
    EXEC SQL drop index oline_idx1;

    EXEC SQL create unique index oline_idx1
        on ORDER_LINE(ol_w_id, ol_d_id, ol_o_id, ol_number)
        include (ol_i_id, ol_amount);

    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Create index for ORDERS_LINE");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("Order_line table index created in %8.2f seconds.\n", elapse);
}
```

mstats.sqc

```
/*-----*/
/* file: mst.sqc */
/* TPC-C benchmark of DB2/6000. This program collects */
/* statistics for the required tables and their indexes. */
/*-----*/
```

```
#include "../include/ctest.h"
#include "../include/lval.h"
```

```
EXEC SQL include sqlca ;
EXEC SQL include sqlda ;
```

```
/* PROTOTYPES. */
```

```
void mst_dist_tbl( void );
void mst_cust_tbl( void );
void mst_hist_tbl( void );
void mst_nu_ord_tbl( void );
void mst_ordr_tbl( void );
void mst_oline_tbl( void );
void mst_item_tbl( void );
void mst_stock_tbl( void );
void mst_ware_tbl( void );
int mst(char *tname, char *idxs[]);
```

```
EXEC SQL BEGIN DECLARE SECTION; /* Declare Host Variables */
char errmsg[201];
long ware_num ;
long dist_num ;
long cust_num ;
long ord_num ;
long oline_num ;
long count ;
long ware_count ;
char dbname[8] = "tpcc";
EXEC SQL END DECLARE SECTION;
```

```
int i, j;
char username[20];
```

```
/*-----*/
/* main */
/*-----*/
```

```
int main ( int argc, char *argv[] )
{
    int option;
    char str[80];
    char msg[30];
    char *dbname_ptr;
    char *user_ptr;
```

```
#if defined(NT)
/* sprintf(username, "tpccuser"); CHADWICK CHOW */
//sprintf(username, "nullid");
sprintf(username, "TPCC");
#else
#if !defined(OS2)
if( 0 == cuserid(username)) /* ltang OS/2 can't run cuserid */
#endif
    sprintf(username, "NEWTON");
#endif /* if defined(NT) else */
```

```
if ((user_ptr = getenv("TPCC_USER")) != NULL) {
    strcpy (username, user_ptr);
}

if ((dbname_ptr = getenv("TPCC_DBNAME")) != NULL) {
    strcpy (dbname, dbname_ptr);
}
```

```
EXEC SQL CONNECT TO :dbname IN SHARE MODE;
sprintf(msg, "CONNECT TO %s", dbname);
SQLERR(&sqlca, msg);
```

```
if (argc == 2)
{
    option = atoi(argv[1]);
}
else
{
    fprintf(stdout, "Pick table to update statistics on: \n");
    fprintf(stdout, "1. all tables \n");
    fprintf(stdout, "2. warehouse \n");
    fprintf(stdout, "3. district \n");
    fprintf(stdout, "4. item \n");
    fprintf(stdout, "5. stock \n");
    fprintf(stdout, "6. customer \n");
    fprintf(stdout, "7. history \n");
    fprintf(stdout, "8. order \n");
    fprintf(stdout, "9. new-order \n");
    fprintf(stdout, "10. order-line \n");
    fprintf(stdout, "\nEnter option: ");
    scanf("%d", &option);
}
```

```
switch (option) {
case 1: /* ALL */
    mst_ware_tbl();
    mst_dist_tbl();
    mst_cust_tbl();
    mst_item_tbl();
    mst_hist_tbl();
    mst_stock_tbl();
    mst_ordr_tbl();
    mst_nu_ord_tbl();
    mst_oline_tbl();
    break;
case 2: /* WAREHOUSE */
    mst_ware_tbl();
    break;
case 3: /* DISTRICT */
    mst_dist_tbl();
    break;
case 4: /* ITEM */
    mst_item_tbl();
    break;
case 5: /* STOCK */
    mst_stock_tbl();
    break;
case 6: /* CUSTOMER */
    mst_cust_tbl();
    break;
case 7: /* HISTORY */
    mst_hist_tbl();
    break;
case 8: /* ORDERS */
    mst_ordr_tbl();
    break;
```

```

case 9: /* NEW-ORDERS */
    rnst_nu_ord_tbl();
    break;
case 10: /* ORDER-LINE */
    rnst_oline_tbl();
    break;
case 99: /* ALL BUT OLINE */
    rnst_ware_tbl();
    rnst_dist_tbl();
    rnst_cust_tbl();
    rnst_item_tbl();
    rnst_hist_tbl();
    rnst_stock_tbl();
    rnst_ordr_tbl();
    rnst_nu_ord_tbl();
    break;
default:
    fprintf(stdout, "error: invalid option. \n");
    break;
}
EXEC SQL CONNECT RESET;    SQLERR(&sqlca, "CONNECT RESET");
}

/*-----*/
/* update statistics for item table */
/*-----*/
void rnst_item_tbl( void )
{
    char *idxls[] = {"item_idx1"};
    (void) rnst("ITEM", idxls);
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Update statistics for ITEM");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
}

/*-----*/
/* update statistics for stock table */
/*-----*/

void rnst_stock_tbl( void )
{
    char *idxls[] = {"stock_idx1"};
    (void) rnst("STOCK", idxls);
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Update statistics for STOCK");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
}

/*-----*/
/* Update statistics for warehouse table */
/*-----*/
void rnst_ware_tbl( void )
{
    char *idxls[] = {"ware_idx1"};
    (void) rnst("WAREHOUSE", idxls);
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Update statistics for WAREHOUSE");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
}

/*-----*/
/* update statistics for dist table */
/*-----*/
void rnst_dist_tbl( void )
{
    char *idxls[] = {"dist_idx1"};
    (void) rnst("DISTRICT", idxls);
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Update statistics for DISTRICT");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
}

/*-----*/
/* update statistics for customer table */
/*-----*/
void rnst_cust_tbl( void )
{
    char *idxls[] = {"cust_idx1", "cust_idx2"};

```

```

    (void) rnst("CUSTOMER", idxls);
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Update statistics for CUSTOMER");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
}

/*-----*/
/* update statistics for hist table */
/*-----*/
void rnst_hist_tbl( void )
{
    char *idxls[] = {NULL};
    (void) rnst("HISTORY", idxls);
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Update statistics for HISTORY");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
}

/*-----*/
/* update statistics for nu_ord table */
/*-----*/
void rnst_nu_ord_tbl( void )
{
    char *idxls[] = {"nu_ord_idx1"};
    (void) rnst("NEW_ORDER", idxls);
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Update statistics for NEW_ORDER");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
}

/*-----*/
/* update statistics for orders table */
/*-----*/
void rnst_ordr_tbl( void )
{
    char *idxls1[] = {"ordr_idx1", "ordr_idx2"};
    (void) rnst("ORDERS", idxls1);
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Update statistics for ORDERS");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
}

/*-----*/
/* update statistics for order-line table */
/*-----*/
void rnst_oline_tbl( void )
{
    char *idxls2[] = {"oline_idx1"};
    (void) rnst("ORDER_LINE", idxls2);
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Update statistics for ORDERS_LINE");
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)    SQLERR(&sqlca, "Commit");
}

/*-----*/
/* runstats for a table */
/*-----*/
int rnst(char *tbname, char *idxls[])
{
    double timestamp1,    timestamp2,    elapse;
    char full_tbname[40];

    sprintf(full_tbname, "%s.%s", username, tbname);
    printf("runstats for %s ..... ", full_tbname);
    timestamp1 = current_time();
    if (idxls == NULL)
        sqlstat(full_tbname, 0, idxls, 'T', 'R', &sqlca);
    else
        sqlstat(full_tbname, 0, idxls, 'B', 'R', &sqlca);
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    printf("sqlcode=%8ld ..%8.2f seconds.\n", sqlca.sqlcode, elapse);

    return sqlca.sqlcode;
}

```

```
}
```

backup_node0_image2.bat

```
set RAH_DO_ALL_LOGICAL_NODES=YES

rah ""| db2 update db cfg for tpcc using dbheap 40960"
rah ""| db2 update db cfg for tpcc using util_heap_sz 102400"
rah ""| db2 update db cfg for tpcc using buffpage 100000"
rah ""| db2 update db cfg for tpcc using logretain on"
db2 update dbm cfg using diaglevel 4
db2 connect reset
db2 terminate
db2stop
set db2node=0
rem db2stat
echo "Node=%DB2NODE% -> Make sure this is the right Node you want to run!"
db2start
time /t
db2 backup db tpcc to c:\TPCC_BACKUP_NODE0_image2\
time /t
```

backup2.bat

```
call c:\tpcckit_mln\tpccenv1.bat
db2 connect reset
db2 terminate
rem db2stat
db2set
echo "Node=%DB2NODE% -> Make sure this is the right NODE you want to run!"
pause
time /t
```

```
db2 backup db tpcc to o:, p:, q:, r: WITHOUT PROMPTING
```

```
db2 terminate
time /t
```

backup_image2_all.bat

```
date /t
time /t
db2stop
sleep 5
db2start
```

```
backup_node0_image2.bat 2>&1 | tee backup_node0_image2.out
pause
sleep 30
start rsh fsnode01 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode02 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode03 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode04 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode05 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode06 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode07 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode08 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode09 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode10 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode11 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode12 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode13 c:\tpcckit_mln\utils\backup2.bat
```

```
sleep 30
start rsh fsnode14 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode15 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode16 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode17 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode18 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode19 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode20 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode21 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode22 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode23 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode24 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode25 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode26 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode27 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode28 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode29 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode30 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode31 c:\tpcckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode32 c:\tpcckit_mln\utils\backup2.bat
date /t
time /t
```

restoreit_test.bat

```
call c:\tpcckit_mln\tpccenv1.bat
db2set DB2NTNOCACHE=ON
db2stop nodenum %DB2NODE%
db2start nodenum %DB2NODE%
db2set
time /t
db2 restore db tpcc from o:, p:, q:, r: without rolling forward WITHOUT PROMPTING
time /t
```

restore_all_test.bat

```
date /t
time /t
db2stop
sleep 5
db2start
```

```
restore_node0_test.bat 2>&1 | tee restore_node0_test.out
sleep 30
start rsh fsnode01 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode02 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode03 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode04 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode05 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode06 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode07 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
```

```

start rsh fsnode08 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode09 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode10 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode11 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode12 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode13 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode14 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode15 c:\tpcckit_mln\utils\restore_remote_test.bat
sleep 60
start rsh fsnode16 c:\tpcckit_mln\utils\restore_remote_test.bat
date /t
time /t

```

restore_remote_test.bat

```

C:\tpcckit_mln\utils\restoreit_test.bat2>&1 | tee c:\tpcckit_mln\utils\restoreit_test.out
exit

```

restore_node0_test.bat

```

rem db2 connect reset
db2 terminate
db2stop
sleep 10
db2start
rem db2 connect to tpcc
db2 alter bufferpool ibmdefaultbp size -1
db2 connect reset
set RAH_DO_ALL_LOGICAL_NODES=YES
rah "db2 update db cfg for tpcc using buffpage 100000"
rah "db2 update db cfg for tpcc using util_heap_sz 102400"
rah "db2 update db cfg for tpcc using dbheap 40960"
rah "db2 update db cfg for tpcc using num_ioservers 1"
db2 update dbm cfg using diaglevel 4
db2 update dbm cfg using maxagents 16000
db2 terminate
db2stop
db2set DB2NTNOCACHE=ON
db2set
sleep 10
db2start
set db2node=0
time /t
db2 restore db tpcc from c:\TPCC_BACKUP_NODE0_image2 without rolling forward
WITHOUT PROMPTING
time /t

```

Loader Source Code

get_header.bat

```

db2atld -c warehouse.cfg
db2atld -c district.cfg
db2atld -c customer.cfg
db2atld -c orders.cfg
db2atld -c order_line.cfg
db2atld -c stock.cfg
db2atld -c new_order.cfg
db2atld -c history.cfg

```

customer.cfg

```

#####
# Release level of this configuration file.
# Please do not delete or modify this line.

```

RELEASE=V5.01

```

# LOAD Command
# - Specify a complete LOAD command including thefile_name, file_type,
#   schema and the table_name.
#
# - The Autoloader utility requires that LOAD command conforms to the
#   format of the "db2 -f" file, except the extra leading "db2" keyword.
#   There is no need to escape special shell characters in the LOAD
#   command.
#
# - If the last character on a line is a backslash '\' character,
#   the next line is a continuation of the current line, i.e. the backslash
#   and end-of-line character(s) are ignored.
#
# - Refer to the Command Reference for the complete Load syntax.

```

```

# DEL data file
# -----
db2 load from customer.dat of del modified by coldel| replace into tpcc.customer

```

```

# ASC data file
# -----
# db2 load from your_data of asc modified by reclen=19\
# method L (1 16, 17 18) replace into your_schema.your_table

```

```

#####
#
# Miscellaneous Autoloader Parameters

```

```

# DATABASE ... Name of the database being loaded into.
#   If not specified, database "sample" is used.
DATABASE=tpcc

```

```

# HOSTNAME ... Name of the remote machine where the data file resides. This
#   may be an MVS host or another workstation. If not specified,
#   and FILE_TRANSFER_CMD is set, then the hostname "nohost"
#   will be passed to the FILE_TRANSFER_CMD in the <hostname>
#   argument.
#
#HOSTNAME=

```

```

# FILE_TRANSFER_CMD ... A user-specified file executable, batch file,
#   script, or something similar that the Autoloader will
#   call before invoking the LOAD utility on any
#   partitions.

```

```

#
# The value specified must be a fully-qualified
# path, accessible to the Autoloader. The full path,
# including the execution file name, must not
# exceed 254 characters

```

```

#
# The Autoloader will invoke this command with
# the following syntax:
#

```

```

# <COMMAND> <logpath> <hostname> <basepipename> <nummedia> <source media
list>
#

```

Where:

```

#
# <COMMAND>      Is the command specified by FILE_TRANSFER_CMD.
# <logpath>      The Autoloader log path. The COMMAND program may
#                opt to write diagnostic or temporary data to this
#                path.
# <hostname>     Is the value of HOSTNAME specified in this
#                configuration file.
# <basepipename>  Is the base name for named-pipes that db2atld
#                will create, and expect to receive data from.
#                The Autoloader creates one pipe for every
#                source file on the LOAD command.
#                Each of these files is suffixed with .XXX,
#                where XXX is the index of the source file on
#                the LOAD command.
#                For example, if there were 2 source files
#                on the LOAD command, and the <pipename>
#                was "pipe123", the Autoloader would
#                create two named pipes for reading: pipe123.000
#                and pipe123.001. The <COMMAND> file should

```

```

#           populate these named pipes with user data.
#           <nummedia>   Is the number of media arguments which follow.
#           <source media lst> The list of source files specified on the LOAD
#                           command, each surrounded by double quote (")
#                           characters.
#
#FILE_TRANSFER_CMD=

# SPLIT_FILE_LOCATION... The complete path name of the location
#           - to place the split files if in SPLIT_ONLY mode
#           - to look for split files if in LOAD_ONLY mode
#           If not specified, and in SPLIT_ONLY mode, the split
#           files are placed in the current working directory.
#           If not specified, and in LOAD_ONLY mode, the
#           Autoloader utility looks for the split files in the
#           current working directory.
#SPLIT_FILE_LOCATION=/u/user/

# OUTPUT_NODES ... Database partitions on which load is to be performed.
#           The supplied partition numbers must be a subset of database
#           partitions on which the table is defined. The default is all
#           database partitions that the table is defined on.
#OUTPUT_NODES=(0,1)

# SPLIT_NODES ... The list of database partitions participating in the
#           splitting process. Splitting database partitions may be
#           the same or different from the database partitions being
#           loaded. If not defined the Autoloader automatically
#           determines how many partitions are needed for splitting,
#           and which partitions are used for splitting, in order to
#           achieve optimal performance.
#           How to determine the number of partitions follows these
#           rules:
#           - If there is no ANYORDER modifier in the LOAD command,
#             there will always be only one splitter used in the
#             Autoloader session; and,
#           o If there is only one partition in the OUTPUT_NODES
#             parameter, or the working partition of Autoloader is
#             not an element of OUTPUT_NODES, then the working
#             partition of Autoloader is used as the splitting
#             partition.
#           o Otherwise, the first partition other than the working
#             partition of Autoloader found in OUTPUT_NODES
#             is used as the splitting partition.
#           - If there is an ANYORDER modifier in the LOAD command,
#             o First, the number of splitters is determined by,
#
#               (number of partitions in OUTPUT_NODES)/4 + 1
#
#             o Then the number of splitting partitions (from the
#               previous step) are chosen from the OUTPUT_NODES,
#               excluding the working partition of Autoloader.
#SPLIT_NODES=(0)

# RUN_STAT_NODE ... If "statistics yes" is specified in the LOAD command, then
#           statistics will be collected only on one database partition.
#           This parameter specifies the database partition you wish to
#           collect statistics on. If left blank or -1, the default is
#           the first database partition in output partition list.
#RUN_STAT_NODE=-1

#####
#
# Optional Autoloader parameters ... These may or may not be specified.

# MODE ... Specify the mode to run Autoloader in.
#           SPLIT_AND_LOAD is the default.
#
#           Other valid values are:
#           SPLIT_ONLY ... Load process is not performed. Output from the
#                           splitting database partitions is written to files
#                           in the SPLIT_FILE_LOCATION or in the current
#                           Autoloader working directory.
#
#           LOAD_ONLY ... Data must be pre-split. The split files are sent
#                           to correct database partition for loading. The split
#                           filenames must follow the convention filename.xxx

```

```

#           where filename was provided in the LOAD command and
#           xxx is the nodenumber. Also, it is assumed that
#           filename.xxx is in the SPLIT_FILE_LOCATION or
#           in the current Autoloader working directory.
#
#           ANALYZE ... This option is used to generate an optimal
#                           partition map for a nodegroup.
#MODE=SPLIT_ONLY

# LOGFILE ... This name is used as a base name to create the following files.
#
#           <logfile>.split.cfg...
#                           configuration file for all splitters
#           <logfile>.split.<3-digit-node-number>.log...
#                           log file for each splitter
#           <logfile>.pmap.<pid> ...
#                           internal temporary file, where <pid> is the process id
#                           of this Autoloader job
#           <logfile>.load.<3-digit-node-number>...
#                           the message file for each loading process if there is no
#                           message file specified in the load command
#
#           You may include a path in the LOGFILE parameter, however
#           you must ensure the existence and accessibility of the path.
#           The default is "/autoloader.log".
#
#           NOTE: In the case where there are multiple concurrent
#           Autoloader sessions, you must ensure either the base name
#           of LOGFILE or the path name of LOGFILE is unique.
#LOGFILE=/FireStorm

# NOTNFS_DIR ... This parameter is obsolete, however it is kept here for
#           backward compatibility
#
#NOTNFS_DIR=/notnfs

# AUTHENTICATION ... Indicates if a password will be used for remote
#           invocation of the splitter program or not; and if
#           a password will be used for database connections.
#           Valid values can be YES or NO, the default being
#           NO (no password checking). If AUTHENTICATION=YES,
#           and no password is specified either in this
#           configuration file or through the use of the
#           DB2ATLD_PWFILE db2 registry variable, the user is
#           prompted to type in a password on the console.
#AUTHENTICATION=NO

# PASSWORD ... It defines the password which is used for remote
#           invocation of the splitter process, and database connections
#           used by the loading process. By default, no password will
#           be used. If AUTHENTICATION=NO, the password is ignored
#           (if any). If the DB2 registry value DB2ATLD_PWFILE is defined
#           at the time of Autoloader invocation, the PASSWORD
#           configuration parameter will be ignored. Instead, the first
#           word of the file specified by the value of the DB2ATLD_PWFILE
#           variable will be used as the password. Please note, password
#           is mandatory in some systems only when splitter(s) are executed
#           in node(s) other than the autoloader itself.
#PASSWORD=

# MAX_NUM_SPLITTERS ... It sets the limit of the maximum number of splitters
#           used in an Autoloader session. The default is
#           25 splitters.
#MAX_NUM_SPLITTERS=25

# FORCE ... Forces the Autoloader job to continue even if the Autoloader
#           detects (at startup time) that some target partitions or
#           table spaces are offline. If "NO", and some partitions are
#           unavailable, then no data will be processed.
#           If "YES", database partitions which are available will be
#           loaded, and all others will be ignored.
#           The default for this parameter is "NO".
#FORCE=NO

# STATUS_INTERVAL ... The interval that Autoloader will generate
#           progress messages to stdout to notify you of the
#           volume of data that has been read into the utility
#           so far. The unit of measurement is megabytes (MB).

```

```

#           The default is 100 MB. Valid values are whole
#           numbers in the range of 1 to 4000.
#STATUS_INTERVAL=100

# PORTS ... It defines the range of TCP ports used to create sockets for
#           internal communications in Autoloader. If not defined, Autoloader
#           uses a default range from 6063 down to 6000.
#           If defined at the time of Autoloader invocation, the value of the
#           DB2ATLD_PORTS DB2 registry value will replace the value of the
#           PORTS configuration parameter.
#PORTS=<lower-port-number>:<higher-port-number>

#####
#
# Optional Splitter paramaters ... These may or may not be specified.

# CHECK_LEVEL ... Can be either CHECK or NOCHECK
#           - CHECK: Program checks for truncation of record at
#             Input/Output.
#           - NOCHECK: Program will not check for truncation of record
#             at Input/Output (default).
CHECK_LEVEL=NOCHECK

# MAP_FILE_INPUT ... Input filename for the partitioning map. If the
#           partitioning map is customized rather than a
#           default map, this parameter must be specified.
#           It points to the file containing the customized
#           partitioning map. You can get a customized
#           partitioning map by either using the db2gmap program
#           to extract the map from the database system catalog
#           table; or you can run the ANALYZE mode of db2atld
#           to generate an optimal map. The map generated by the
#           ANALYZE mode must be moved to each database partition
#           in your database before actual loading can proceed.
#
#MAP_FILE_INPUT=filename_of_your_customized_partitioning_map

# MAP_FILE_OUTPUT ... Output file name for partitioning map. This parameter
#           should be used with the db2atld program executed
#           in ANALYZE mode. An optimal partitioning map with even
#           distribution across all database partitions is generated.
#           If it is not specified and the running mode is ANALYZE,
#           the program exits with an error.
#MAP_FILE_OUTPUT=filename_for_your_optimal_partitioning_map

# TRACE ... Tracing hashing values. Dump of all the data conversion process
#           and output of hashing values. Argument is the number of records
#           to trace. If not defined, it takes default value of 0.
TRACE=1

# NEWLINE ... Only meaningful if the input data file is anASC file with each
#           record delimited by a new line character, and the RecLen
#           parameter in the load command is specified.
#           If YES, Autoloader always checks if the record is terminated
#           by a new line character or not. It also checks if the record
#           length is the same as the expected RecLen or not. The default
#           for this parameter is NO.
#NEWLINE=YES

```

district.cfg

```

#####
# Release level of this configuration file.
# Please do not delete or modify this line.
RELEASE=V5.01

# LOAD Command
# - Specify a complete LOAD command including thefile_name, file_type,
#   schema and the table_name.
#
# - The Autoloader utility requires that LOAD command conforms to the
#   format of the "db2 -f" file, except the extra leading "db2" keyword.
#   There is no need to escape special shell characters in the LOAD
#   command.
#
# - If the last character on a line is a backslash '\' character,
#   the next line is a continuation of the current line, i.e. the backslash

```

```

# and end-of-line character(s) are ignored.
#
# - Refer to the Command Reference for the complete Load syntax.

# DEL data file
# -----
db2 load from district.dat of del modified by coldel| replace into tpcc.district

# ASC data file
# -----
# db2 load from your_data of asc modified by reclen=19\
# method L (1 16, 17 18) replace into your_schema.your_table

#####
#
# Miscellaneous Autoloader Parameters

# DATABASE ... Name of the database being loaded into.
#           If not specified, database "sample" is used.
DATABASE=tpcc

# HOSTNAME ... Name of the remote machine where the data file resides. This
#           may be an MVS host or another workstation. If not specified,
#           and FILE_TRANSFER_CMD is set, then the hostname "nohost"
#           will be passed to the FILE_TRANSFER_CMD in the <hostname>
#           argument.
#
#HOSTNAME=

# FILE_TRANSFER_CMD ... A user-specified file executable, batch file,
#           script, or something similar that the Autoloader will
#           call before invoking the LOAD utility on any
#           partitions.
#
#           The value specified must be a fully-qualified
#           path, accessible to the Autoloader. The full path,
#           including the execution file name, must not
#           exceed 254 characters
#
#           The Autoloader will invoke this command with
#           the following syntax:
#
# <COMMAND> <logpath> <hostname> <basepipename> <nummedia> <source media
# list>
#
#           Where:
#
# <COMMAND>      Is the command specified by FILE_TRANSFER_CMD.
# <logpath>       The Autoloader log path. The COMMAND program may
#                 opt to write diagnostic or temporary data to this
#                 path.
# <hostname>      Is the value of HOSTNAME specified in this
#                 configuration file.
# <basepipename>  Is the base name for named-pipes that db2atld
#                 will create, and expect to receive data from.
#                 The Autoloader creates one pipe for every
#                 source file on the LOAD command.
#                 Each of these files is suffixed with .XXX,
#                 where XXX is the index of the source file on
#                 the LOAD command.
#                 For example, if there were 2 source files
#                 on the LOAD command, and the <pipename>
#                 was "pipe123", the Autoloader would
#                 create two named pipes for reading: pipe123.000
#                 and pipe123.001. The <COMMAND> file should
#                 populate these named pipes with user data.
# <nummedia>      Is the number of media arguments which follow.
# <source media lst> The list of source files specified on the LOAD
#                 command, each surrounded by double quote (")
#                 characters.
#
#FILE_TRANSFER_CMD=

# SPLIT_FILE_LOCATION ... The complete path name of the location
#           - to place the split files if in SPLIT_ONLY mode
#           - to look for split files if in LOAD_ONLY mode
#           If not specified, and in SPLIT_ONLY mode, the split
#           files are placed in the current working directory.

```

```

#           If not specified, and in LOAD_ONLY mode, the
#           Autoloader utility looks for the split files in the
#           current working directory.
#SPLIT_FILE_LOCATION=/u/user/

# OUTPUT_NODES ... Database partitions on which load is to be performed.
#           The supplied partition numbers must be a subset of database
#           partitions on which the table is defined. The default is all
#           database partitions that the table is defined on.
#OUTPUT_NODES=(0,1)

# SPLIT_NODES ... The list of database partitions participating in the
#           splitting process. Splitting database partitions may be
#           the same or different from the database partitions being
#           loaded. If not defined the Autoloader automatically
#           determines how many partitions are needed for splitting,
#           and which partitions are used for splitting, in order to
#           achieve optimal performance.
#           How to determine the number of partitions follows these
#           rules:
#           - If there is no ANYORDER modifier in the LOAD command,
#             there will always be only one splitter used in the
#             Autoloader session; and,
#           o If there is only one partition in the OUTPUT_NODES
#             parameter, or the working partition of Autoloader is
#             not an element of OUTPUT_NODES, then the working
#             partition of Autoloader is used as the splitting
#             partition.
#           o Otherwise, the first partition other than the working
#             partition of Autoloader found in OUTPUT_NODES
#             is used as the splitting partition.
#           - If there is an ANYORDER modifier in the LOAD command,
#             o First, the number of splitters is determined by,
#
#               (number of partitions in OUTPUT_NODES)/4 + 1
#
#             o Then the number of splitting partitions (from the
#               previous step) are chosen from the OUTPUT_NODES,
#               excluding the working partition of Autoloader.
#SPLIT_NODES=(0)

# RUN_STAT_NODE ... If "statistics yes" is specified in the LOAD command, then
#           statistics will be collected only on one database partition.
#           This parameter specifies the database partition you wish to
#           collect statistics on. If left blank or -1, the default is
#           the first database partition in output partition list.
#RUN_STAT_NODE=-1

#####
#
# Optional Autoloader parameters ... These may or may not be specified.

# MODE ... Specify the mode to run Autoloader in.
#           SPLIT_AND_LOAD is the default.
#
#           Other valid values are:
#           SPLIT_ONLY ... Load process is not performed. Output from the
#               splitting database partitions is written to files
#               in the SPLIT_FILE_LOCATION or in the current
#               Autoloader working directory.
#
#           LOAD_ONLY ... Data must be pre-split. The split files are sent
#               to correct database partition for loading. The split
#               filenames must follow the convention filename.xxx
#               where filename was provided in the LOAD command and
#               xxx is the nodenumber. Also, it is assumed that
#               filename.xxx is in the SPLIT_FILE_LOCATION or
#               in the current Autoloader working directory.
#
#           ANALYZE ... This option is used to generate an optimal
#               partition map for a nodegroup.
MODE=SPLIT_ONLY

# LOGFILE ... This name is used as a base name to create the following files.
#
#           <logfile>.split.cfg...
#           configuration file for all splitters

```

```

#           <logfile>.split.<3-digit-node-number>.log...
#           log file for each splitter
#           <logfile>.pmap.<pid> ...
#           internal temporary file, where <pid> is the process id
#           of this Autoloader job
#           <logfile>.load.<3-digit-node-number>...
#           the message file for each loading process if there is no
#           message file specified in the load command
#
#           You may include a path in the LOGFILE parameter, however
#           you must ensure the existence and accessibility of the path.
#           The default is "/autoloader.log".
#
#           NOTE: In the case where there are multiple concurrent
#           Autoloader sessions, you must ensure either the base name
#           of LOGFILE or the path name of LOGFILE is unique.
LOGFILE=/FireStorm

# NOTNFS_DIR ... This parameter is obsolete, however it is kept here for
#           backward compatibility
#
#NOTNFS_DIR=/notnfs

# AUTHENTICATION ... Indicates if a password will be used for remote
#           invocation of the splitter program or not; and if
#           a password will be used for database connections.
#           Valid values can be YES or NO, the default being
#           NO (no password checking). If AUTHENTICATION=YES,
#           and no password is specified either in this
#           configuration file or through the use of the
#           DB2ATLD_PWFILE db2 registry variable, the user is
#           prompted to type in a password on the console.
#AUTHENTICATION=NO

# PASSWORD ... It defines the password which is used for remote
#           invocation of the splitter process, and database connections
#           used by the loading process. By default, no password will
#           be used. If AUTHENTICATION=NO, the password is ignored
#           (if any). If the DB2 registry value DB2ATLD_PWFILE is defined
#           at the time of Autoloader invocation, the PASSWORD
#           configuration parameter will be ignored. Instead, the first
#           word of the file specified by the value of the DB2ATLD_PWFILE
#           variable will be used as the password. Please note, password
#           is mandatory in some systems only when splitter(s) are executed
#           in node(s) other than the autoloader itself.
#PASSWORD=

# MAX_NUM_SPLITTERS ... It sets the limit of the maximum number of splitters
#           used in an Autoloader session. The default is
#           25 splitters.
#MAX_NUM_SPLITTERS=25

# FORCE ... Forces the Autoloader job to continue even if the Autoloader
#           detects (at startup time) that some target partitions or
#           table spaces are offline. If "NO", and some partitions are
#           unavailable, then no data will be processed.
#           If "YES", database partitions which are available will be
#           loaded, and all others will be ignored.
#           The default for this parameter is "NO".
#FORCE=NO

# STATUS_INTERVAL ... The interval that Autoloader will generate
#           progress messages to stdout to notify you of the
#           volume of data that has been read into the utility
#           so far. The unit of measurement is megabytes (MB).
#           The default is 100 MB. Valid values are whole
#           numbers in the range of 1 to 4000.
#STATUS_INTERVAL=100

# PORTS ... It defines the range of TCP ports used to create sockets for
#           internal communications in Autoloader. If not defined, Autoloader
#           uses a default range from 6063 down to 6000.
#           If defined at the time of Autoloader invocation, the value of the
#           DB2ATLD_PORTS DB2 registry value will replace the value of the
#           PORTS configuration parameter.
#PORTS=<lower-port-number>:<higher-port-number>

#####

```

```
#
# Optional Splitter paramaters ... These may or may not be specified.

# CHECK_LEVEL ... Can be either CHECK or NOCHECK
# - CHECK: Program checks for truncation of record at
#   Input/Output.
# - NOCHECK: Program will not check for truncation of record
#   at Input/Output (default).
CHECK_LEVEL=NOCHECK

# MAP_FILE_INPUT ... Input filename for the partitioning map. If the
#   partitioning map is customized rather than a
#   default map, this parameter must be specified.
#   It points to the file containing the customized
#   partitioning map. You can get a customized
#   partitioning map by either using the db2gmpmap program
#   to extract the map from the database system catalog
#   table; or you can run the ANALYZE mode of db2atld
#   to generate an optimal map. The map generated by the
#   ANALYZE mode must be moved to each database partition
#   in your database before actual loading can proceed.
#
#MAP_FILE_INPUT=filename_of_your_customized_partitioning_map

# MAP_FILE_OUTPUT ... Output file name for partitioning map. This parameter
#   should be used with the db2atld program executed
#   in ANALYZE mode. An optimal partitioning map with even
#   distribution across all database partitions is generated.
#   If it is not specified and the running mode is ANALYZE,
#   the program exits with an error.
#MAP_FILE_OUTPUT=filename_for_your_optimal_partitioning_map

# TRACE ... Tracing hashing values. Dump of all the data conversion process
#   and output of hashing values. Argument is the number of records
#   to trace. If not defined, it takes default value of 0.
TRACE=1

# NEWLINE ... Only meaningful if the input data file is anASC file with each
#   record delimited by a new line character, and the RecLen
#   parameter in the load command is specified.
#   If YES, Autoloader always checks if the record is terminated
#   by a new line character or not. It also checks if the record
#   length is the same as the expected RecLen or not. The default
#   for this parameter is NO.
#NEWLINE=YES
```

history.cfg

```
#####
# Release level of this configuration file.
# Please do not delete or modify this line.
RELEASE=V5.01

# LOAD Command
# - Specify a complete LOAD command including thefile_name, file_type,
#   schema and the table_name.
#
# - The Autoloader utility requires that LOAD command conforms to the
#   format of the "db2 -f" file, except the extra leading "db2" keyword.
#   There is no need to escape special shell characters in the LOAD
#   command.
#
# - If the last character on a line is a backslash '\' character,
#   the next line is a continuation of the current line, i.e. the backslash
#   and end-of-line character(s) are ignored.
#
# - Refer to the Command Reference for the complete Load syntax.

# DEL data file
# -----
db2 load from history.dat of del modified by coldel| replace into tpcc.history

# ASC data file
# -----
# db2 load from your_data of asc modified by reclen=19\
```

```
# method L (1 16, 17 18) replace into your_schema.your_table

#####
#
# Miscellaneous Autoloader Parameters

# DATABASE ... Name of the database being loaded into.
#   If not specified, database "sample" is used.
DATABASE=tpcc

# HOSTNAME ... Name of the remote machine where the data file resides. This
#   may be an MVS host or another workstation. If not specified,
#   and FILE_TRANSFER_CMD is set, then the hostname "nohost"
#   will be passed to the FILE_TRANSFER_CMD in the <hostname>
#   argument.
#
#HOSTNAME=

# FILE_TRANSFER_CMD ... A user-specified file executable, batch file,
#   script, or something similar that the Autoloader will
#   call before invoking the LOAD utility on any
#   partitions.
#
#   The value specified must be a fully-qualified
#   path, accessible to the Autoloader. The full path,
#   including the execution file name, must not
#   exceed 254 characters
#
#   The Autoloader will invoke this command with
#   the following syntax:
#
# <COMMAND> <logpath> <hostname> <basepipename> <nummedia> <source media
list>
#
#   Where:
#
# <COMMAND> Is the command specified by FILE_TRANSFER_CMD.
# <logpath> The Autoloader log path. The COMMAND program may
#   opt to write diagnostic or temporary data to this
#   path.
# <hostname> Is the value of HOSTNAME specified in this
#   configuration file.
# <basepipename> Is the base name for named-pipes that db2atld
#   will create, and expect to receive data from.
#   The Autoloader creates one pipe for every
#   source file on the LOAD command.
#   Each of these files is suffixed with .XXX,
#   where XXX is the index of the source file on
#   the LOAD command.
#   For example, if there were 2 source files
#   on the LOAD command, and the <pipename>
#   was "pipe123", the Autoloader would
#   create two named pipes for reading: pipe123.000
#   and pipe123.001. The <COMMAND> file should
#   populate these named pipes with user data.
# <nummedia> Is the number of media arguments which follow.
# <source media lst> The list of source files specified on the LOAD
#   command, each surrounded by double quote (")
#   characters.
#
#FILE_TRANSFER_CMD=

# SPLIT_FILE_LOCATION ... The complete path name of the location
#   - to place the split files if in SPLIT_ONLY mode
#   - to look for split files if in LOAD_ONLY mode
#   If not specified, and in SPLIT_ONLY mode, the split
#   files are placed in the current working directory.
#   If not specified, and in LOAD_ONLY mode, the
#   Autoloader utility looks for the split files in the
#   current working directory.
#SPLIT_FILE_LOCATION=/u/user/

# OUTPUT_NODES ... Database partitions on which load is to be performed.
#   The supplied partition numbers must be a subset of database
#   partitions on which the table is defined. The default is all
#   database partitions that the table is defined on.
#OUTPUT_NODES=(0,1)
```

```
# SPLIT_NODES ... The list of database partitions participating in the
# splitting process. Splitting database partitions may be
# the same or different from the database partitions being
# loaded. If not defined the Autoloader automatically
# determines how many partitions are needed for splitting,
# and which partitions are used for splitting, in order to
# achieve optimal performance.
# How to determine the number of partitions follows these
# rules:
# - If there is no ANYORDER modifier in the LOAD command,
# there will always be only one splitter used in the
# Autoloader session; and,
# o If there is only one partition in the OUTPUT_NODES
# parameter, or the working partition of Autoloader is
# not an element of OUTPUT_NODES, then the working
# partition of Autoloader is used as the splitting
# partition.
# o Otherwise, the first partition other than the working
# partition of Autoloader found in OUTPUT_NODES
# is used as the splitting partition.
# - If there is an ANYORDER modifier in the LOAD command,
# o First, the number of splitters is determined by,
#
# (number of partitions in OUTPUT_NODES)/4 + 1
#
# o Then the number of splitting partitions (from the
# previous step) are chosen from the OUTPUT_NODES,
# excluding the working partition of Autoloader.
#
# SPLIT_NODES=(0)

# RUN_STAT_NODE ... If "statistics yes" is specified in the LOAD command, then
# statistics will be collected only on one database partition.
# This parameter specifies the database partition you wish to
# collect statistics on. If left blank or -1, the default is
# the first database partition in output partition list.
# RUN_STAT_NODE=-1

#####
# Optional Autoloader parameters ... These may or may not be specified.

# MODE ... Specify the mode to run Autoloader in.
# SPLIT_AND_LOAD is the default.
#
# Other valid values are:
# SPLIT_ONLY ... Load process is not performed. Output from the
# splitting database partitions is written to files
# in the SPLIT_FILE_LOCATION or in the current
# Autoloader working directory.
#
# LOAD_ONLY ... Data must be pre-split. The split files are sent
# to correct database partition for loading. The split
# filenames must follow the convention filename.xxx
# where filename was provided in the LOAD command and
# xxx is the nodenumber. Also, it is assumed that
# filename.xxx is in the SPLIT_FILE_LOCATION or
# in the current Autoloader working directory.
#
# ANALYZE ... This option is used to generate an optimal
# partition map for a nodegroup.
MODE=SPLIT_ONLY

# LOGFILE ... This name is used as a base name to create the following files.
#
# <logfile>.split.cfg ...
# configuration file for all splitters
# <logfile>.split.<3-digit-node-number>.log..
# log file for each splitter
# <logfile>.pmap.<pid> ...
# internal temporary file, where <pid> is the process id
# of this Autoloader job
# <logfile>.load.<3-digit-node-number>...
# the message file for each loading process if there is no
# message file specified in the load command
#
# You may include a path in the LOGFILE parameter, however
# you must ensure the existence and accessibility of the path.
```

```
# The default is "./autoloader.log".
#
# NOTE: In the case where there are multiple concurrent
# Autoloader sessions, you must ensure either the base name
# of LOGFILE or the path name of LOGFILE is unique.
LOGFILE=./FireStorm

# NOTNFS_DIR ... This parameter is obsolete, however it is kept here for
# backward compatibility
#
# NOTNFS_DIR=/notnfs

# AUTHENTICATION ... Indicates if a password will be used for remote
# invocation of the splitter program or not; and if
# a password will be used for database connections.
# Valid values can be YES or NO, the default being
# NO (no password checking). If AUTHENTICATION=YES,
# and no password is specified either in this
# configuration file or through the use of the
# DB2ATLD_PWFILE db2 registry variable, the user is
# prompted to type in a password on the console.
# AUTHENTICATION=NO

# PASSWORD ... It defines the password which is used for remote
# invocation of the splitter process, and database connections
# used by the loading process. By default, no password will
# be used. If AUTHENTICATION=NO, the password is ignored
# (if any). If the DB2 registry value DB2ATLD_PWFILE is defined
# at the time of Autoloader invocation, the PASSWORD
# configuration parameter will be ignored. Instead, the first
# word of the file specified by the value of the DB2ATLD_PWFILE
# variable will be used as the password. Please note, password
# is mandatory in some systems only when splitter(s) are executed
# in node(s) other than the autoloader itself.
# PASSWORD=

# MAX_NUM_SPLITTERS ... It sets the limit of the maximum number of splitters
# used in an Autoloader session. The default is
# 25 splitters.
# MAX_NUM_SPLITTERS=25

# FORCE ... Forces the Autoloader job to continue even if the Autoloader
# detects (at startup time) that some target partitions or
# table spaces are offline. If "NO", and some partitions are
# unavailable, then no data will be processed.
# If "YES", database partitions which are available will be
# loaded, and all others will be ignored.
# The default for this parameter is "NO".
# FORCE=NO

# STATUS_INTERVAL ... The interval that Autoloader will generate
# progress messages to stdout to notify you of the
# volume of data that has been read into the utility
# so far. The unit of measurement is megabytes (MB).
# The default is 100 MB. Valid values are whole
# numbers in the range of 1 to 4000.
# STATUS_INTERVAL=100

# PORTS ... It defines the range of TCP ports used to create sockets for
# internal communications in Autoloader. If not defined, Autoloader
# uses a default range from 6063 down to 6000.
# If defined at the time of Autoloader invocation, the value of the
# DB2ATLD_PORTS DB2 registry value will replace the value of the
# PORTS configuration parameter.
# PORTS=<lower-port-number>:<higher-port-number>

#####
# Optional Splitter parameters ... These may or may not be specified.

# CHECK_LEVEL ... Can be either CHECK or NOCHECK
# - CHECK: Program checks for truncation of record at
# Input/Output.
# - NOCHECK: Program will not check for truncation of record
# at Input/Output (default).
CHECK_LEVEL=NOCHECK

# MAP_FILE_INPUT ... Input filename for the partitioning map. If the
```

```

#      partitioning map is customized rather than a
#      default map, this parameter must be specified.
#      It points to the file containing the customized
#      partitioning map. You can get a customized
#      partitioning map by either using the db2gpmap program
#      to extract the map from the database system catalog
#      table; or you can run the ANALYZE mode of db2atld
#      to generate an optimal map. The map generated by the
#      ANALYZE mode must be moved to each database partition
#      in your database before actual loading can proceed.
#
#MAP_FILE_INPUT=filename_of_your_customized_partitioning_map

# MAP_FILE_OUTPUT ... Output file name for partitioning map. This parameter
#      should be used with the db2atld program executed
#      in ANALYZE mode. An optimal partitioning map with even
#      distribution across all database partitions is generated.
#      If it is not specified and the running mode is ANALYZE,
#      the program exits with an error.
#MAP_FILE_OUTPUT=filename_for_your_optimal_partitioning_map

# TRACE ... Tracing hashing values. Dump of all the data conversion process
#      and output of hashing values. Argument is the number of records
#      to trace. If not defined, it takes default value of 0.
TRACE=1

# NEWLINE ... Only meaningful if the input data file is anASC file with each
#      record delimited by a new line character, and the RecLen
#      parameter in the load command is specified.
#      If YES, Autoloader always checks if the record is terminated
#      by a new line character or not. It also checks if the record
#      length is the same as the expected RecLen or not. The default
#      for this parameter is NO.
#NEWLINE=YES

```

new_order.cfg

```

#####
# Release level of this configuration file.
# Please do not delete or modify this line.
RELEASE=V5.01

# LOAD Command
# - Specify a complete LOAD command including thefile_name, file_type,
#   schema and the table_name.
#
# - The Autoloader utility requires that LOAD command conforms to the
#   format of the "db2 -f" file, except the extra leading "db2" keyword.
#   There is no need to escape special shell characters in the LOAD
#   command.
#
# - If the last character on a line is a backslash '\' character,
#   the next line is a continuation of the current line, i.e. the backslash
#   and end-of-line character(s) are ignored.
#
# - Refer to the Command Reference for the complete Load syntax.

# DEL data file
# -----
db2 load from new_order.dat of del modified by coldel| replace into tpcc.new_order

# ASC data file
# -----
# db2 load from your_data of asc modified by reclen=19\
# method L (1 16, 17 18) replace into your_schema.your_table

#####
# Miscellaneous Autoloader Parameters

# DATABASE ... Name of the database being loaded into.
#      If not specified, database "sample" is used.
DATABASE=tpcc

# HOSTNAME ... Name of the remote machine where the data file resides. This
#      may be an MVS host or another workstation. If not specified,
#      and FILE_TRANSFER_CMD is set, then the hostname "nohost"

```

```

#      will be passed to the FILE_TRANSFER_CMD in the <hostname>
#      argument.
#
#HOSTNAME=

# FILE_TRANSFER_CMD ... A user-specified file executable, batch file,
#      script, or something similar that the Autoloader will
#      call before invoking the LOAD utility on any
#      partitions.
#
#      The value specified must be a fully-qualified
#      path, accessible to the Autoloader. The full path,
#      including the execution file name, must not
#      exceed 254 characters
#
#      The Autoloader will invoke this command with
#      the following syntax:
#
# <COMMAND> <logpath> <hostname> <basepipename> <nummedia> <source media
list>
#
#      Where:
#
# <COMMAND>      Is the command specified by FILE_TRANSFER_CMD.
# <logpath>      The Autoloader log path. The COMMAND program may
#                opt to write diagnostic or temporary data to this
#                path.
# <hostname>      Is the value of HOSTNAME specified in this
#                configuration file.
# <basepipename>  Is the base name for named-pipes that db2atld
#                will create, and expect to receive data from.
#                The Autoloader creates one pipe for every
#                source file on the LOAD command.
#                Each of these files is suffixed with .XXX,
#                where XXX is the index of the source file on
#                the LOAD command.
#                For example, if there were 2 source files
#                on the LOAD command, and the <pipename>
#                was "pipe123", the Autoloader would
#                create two named pipes for reading: pipe123.000
#                and pipe123.001. The <COMMAND> file should
#                populate these named pipes with user data.
# <nummedia>      Is the number of media arguments which follow.
# <source media list> The list of source files specified on the LOAD
#                command, each surrounded by double quote (")
#                characters.
#
#FILE_TRANSFER_CMD=

# SPLIT_FILE_LOCATION... The complete path name of the location
#      - to place the split files if in SPLIT_ONLY mode
#      - to look for split files if in LOAD_ONLY mode
#      If not specified, and in SPLIT_ONLY mode, the split
#      files are placed in the current working directory.
#      If not specified, and in LOAD_ONLY mode, the
#      Autoloader utility looks for the split files in the
#      current working directory.
#SPLIT_FILE_LOCATION=/u/user/

# OUTPUT_NODES ... Database partitions on which load is to be performed.
#      The supplied partition numbers must be a subset of database
#      partitions on which the table is defined. The default is all
#      database partitions that the table is defined on.
#OUTPUT_NODES=(0,1)

# SPLIT_NODES ... The list of database partitions participating in the
#      splitting process. Splitting database partitions may be
#      the same or different from the database partitions being
#      loaded. If not defined the Autoloader automatically
#      determines how many partitions are needed for splitting,
#      and which partitions are used for splitting, in order to
#      achieve optimal performance.
#      How to determine the number of partitions follows these
#      rules:
#      - If there is no ANYORDER modifier in the LOAD command,
#        there will always be only one splitter used in the
#        Autoloader session; and,
#      o If there is only one partition in the OUTPUT_NODES

```

```

#         parameter, or the working partition of Autoloader is
#         not an element of OUTPUT_NODES, then the working
#         partition of Autoloader is used as the splitting
#         partition.
#         o Otherwise, the first partition other than the working
#         partition of Autoloader found in OUTPUT_NODES
#         is used as the splitting partition.
#     - If there is an ANYORDER modifier in the LOAD command,
#         o First, the number of splitters is determined by,
#
#         (number of partitions in OUTPUT_NODES)/4 + 1
#
#         o Then the number of splitting partitions (from the
#         previous step) are chosen from the OUTPUT_NODES,
#         excluding the working partition of Autoloader.
#
#SPLIT_NODES=(0)

# RUN_STAT_NODE ... If "statistics yes" is specified in the LOAD command, then
# statistics will be collected only on one database partition.
# This parameter specifies the database partition you wish to
# collect statistics on. If left blank or -1, the default is
# the first database partition in output partition list.
#RUN_STAT_NODE=-1

#####
#
# Optional Autoloader parameters ... These may or may not be specified.

# MODE ... Specify the mode to run Autoloader in.
# SPLIT_AND_LOAD is the default.
#
# Other valid values are:
# SPLIT_ONLY ... Load process is not performed. Output from the
# splitting database partitions is written to files
# in the SPLIT_FILE_LOCATION or in the current
# Autoloader working directory.
#
# LOAD_ONLY ... Data must be pre-split. The split files are sent
# to correct database partition for loading. The split
# filenames must follow the convention filename.xxx
# where filename was provided in the LOAD command and
# xxx is the nodenumber. Also, it is assumed that
# filename.xxx is in the SPLIT_FILE_LOCATION or
# in the current Autoloader working directory.
#
# ANALYZE ... This option is used to generate an optimal
# partition map for a nodegroup.
MODE=SPLIT_ONLY

# LOGFILE ... This name is used as a base name to create the following files.
#
# <logfile>.split.cfg ...
# configuration file for all splitters
# <logfile>.split.<3-digit-node-number>.log...
# log file for each splitter
# <logfile>.pmap.<pid>...
# internal temporary file, where <pid> is the process id
# of this Autoloader job
# <logfile>.load.<3-digit-node-number>...
# the message file for each loading process if there is no
# message file specified in the load command
#
# You may include a path in the LOGFILE parameter, however
# you must ensure the existence and accessibility of the path.
# The default is "/autoloader.log".
#
# NOTE: In the case where there are multiple concurrent
# Autoloader sessions, you must ensure either the base name
# of LOGFILE or the path name of LOGFILE is unique.
LOGFILE=~/FireStorm

# NOTNFS_DIR ... This parameter is obsolete, however it is kept here for
# backward compatibility
#
# NOTNFS_DIR=/notnfs

# AUTHENTICATION ... Indicates if a password will be used for remote

```

```

# invocation of the splitter program or not; and if
# a password will be used for database connections.
# Valid values can be YES or NO, the default being
# NO (no password checking). If AUTHENTICATION=YES,
# and no password is specified either in this
# configuration file or through the use of the
# DB2ATLD_PWFILE db2 registry variable, the user is
# prompted to type in a password on the console.
#AUTHENTICATION=NO

# PASSWORD ... It defines the password which is used for remote
# invocation of the splitter process, and database connections
# used by the loading process. By default, no password will
# be used. If AUTHENTICATION=NO, the password is ignored
# (if any). If the DB2 registry value DB2ATLD_PWFILE is defined
# at the time of Autoloader invocation, the PASSWORD
# configuration parameter will be ignored. Instead, the first
# word of the file specified by the value of the DB2ATLD_PWFILE
# variable will be used as the password. Please note, password
# is mandatory in some systems only when splitter(s) are executed
# in node(s) other than the autoloader itself.
#PASSWORD=

# MAX_NUM_SPLITTERS ... It sets the limit of the maximum number of splitters
# used in an Autoloader session. The default is
# 25 splitters.
#MAX_NUM_SPLITTERS=25

# FORCE ... Forces the Autoloader job to continue even if the Autoloader
# detects (at startup time) that some target partitions or
# table spaces are offline. If "NO", and some partitions are
# unavailable, then no data will be processed.
# If "YES", database partitions which are available will be
# loaded, and all others will be ignored.
# The default for this parameter is "NO".
#FORCE=NO

# STATUS_INTERVAL ... The interval that Autoloader will generate
# progress messages to stdout to notify you of the
# volume of data that has been read into the utility
# so far. The unit of measurement is megabytes (MB).
# The default is 100 MB. Valid values are whole
# numbers in the range of 1 to 4000.
#STATUS_INTERVAL=100

# PORTS ... It defines the range of TCP ports used to create sockets for
# internal communications in Autoloader. If not defined, Autoloader
# uses a default range from 6063 down to 6000.
# If defined at the time of Autoloader invocation, the value of the
# DB2ATLD_PORTS DB2 registry value will replace the value of the
# PORTS configuration parameter.
#PORTS=<lower-port-number>:<higher-port-number>

#####
#
# Optional Splitter parameters ... These may or may not be specified.

# CHECK_LEVEL ... Can be either CHECK or NOCHECK
#
# - CHECK: Program checks for truncation of record at
# Input/Output.
#
# - NOCHECK: Program will not check for truncation of record
# at Input/Output (default).
CHECK_LEVEL=NOCHECK

# MAP_FILE_INPUT ... Input filename for the partitioning map. If the
# partitioning map is customized rather than a
# default map, this parameter must be specified.
# It points to the file containing the customized
# partitioning map. You can get a customized
# partitioning map by either using the db2gpmmap program
# to extract the map from the database system catalog
# table; or you can run the ANALYZE mode of db2atld
# to generate an optimal map. The map generated by the
# ANALYZE mode must be moved to each database partition
# in your database before actual loading can proceed.
#
#MAP_FILE_INPUT=filename_of_your_customized_partitioning_map

```

```
# MAP_FILE_OUTPUT ... Output file name for partitioning map. This parameter
# should be used with the db2atld program executed
# in ANALYZE mode. An optimal partitioning map with even
# distribution across all database partitions is generated.
# If it is not specified and the running mode is ANALYZE,
# the program exits with an error.
#MAP_FILE_OUTPUT=filename_for_your_optimal_partitioning_map

# TRACE ... Tracing hashing values. Dump of all the data conversion process
# and output of hashing values. Argument is the number of records
# to trace. If not defined, it takes default value of 0.
TRACE=1

# NEWLINE ... Only meaningful if the input data file is anASC file with each
# record delimited by a new line character, and the RecLen
# parameter in the load command is specified.
# If YES, Autoloader always checks if the record is terminated
# by a new line character or not. It also checks if the record
# length is the same as the expected RecLen or not. The default
# for this parameter is NO.
#NEWLINE=YES
```

order_line.cfg

```
#####
# Release level of this configuration file.
# Please do not delete or modify this line.
RELEASE=V5.01

# LOAD Command
# - Specify a complete LOAD command including thefile_name, file_type,
# schema and the table_name.
#
# - The Autoloader utility requires that LOAD command conforms to the
# format of the "db2 -f" file, except the extra leading "db2" keyword.
# There is no need to escape special shell characters in the LOAD
# command.
#
# - If the last character on a line is a backslash '\' character,
# the next line is a continuation of the current line, i.e. the backslash
# and end-of-line character(s) are ignored.
#
# - Refer to the Command Reference for the complete Load syntax.

# DEL data file
# -----
db2 load from order_line.dat of del modified by coldel| replace into tpcc.order_line

# ASC data file
# -----
# db2 load from your_data of asc modified by reclen=19\
# method L (1 16, 17 18) replace into your_schema.your_table

#####
# Miscellaneous Autoloader Parameters

# DATABASE ... Name of the database being loaded into.
# If not specified, database "sample" is used.
DATABASE=tpcc

# HOSTNAME ... Name of the remote machine where the data file resides. This
# may be an MVS host or another workstation. If not specified,
# and FILE_TRANSFER_CMD is set, then the hostname "nohost"
# will be passed to the FILE_TRANSFER_CMD in the <hostname>
# argument.
#
#HOSTNAME=

# FILE_TRANSFER_CMD ... A user-specified file executable, batch file,
# script, or something similar that the Autoloader will
# call before invoking the LOAD utility on any
# partitions.
#
# The value specified must be a fully-qualified
# path, accessible to the Autoloader. The full path,
# including the execution file name, must not
```

```
# exceed 254 characters
#
# The Autoloader will invoke this command with
# the following syntax:
#
# <COMMAND> <logpath> <hostname> <basepipename> <nummedia> <source media
list>
#
# Where:
#
# <COMMAND> Is the command specified by FILE_TRANSFER_CMD.
# <logpath> The Autoloader log path. The COMMAND program may
# opt to write diagnostic or temporary data to this
# path.
# <hostname> Is the value of HOSTNAME specified in this
# configuration file.
# <basepipename> Is the base name for named-pipes that db2atld
# will create, and expect to receive data from.
# The Autoloader creates one pipe for every
# source file on the LOAD command.
# Each of these files is suffixed with .XXX,
# where XXX is the index of the source file on
# the LOAD command.
# For example, if there were 2 source files
# on the LOAD command, and the <pipename>
# was "pipe123", the Autoloader would
# create two named pipes for reading: pipe123.000
# and pipe123.001. The <COMMAND> file should
# populate these named pipes with user data.
# <nummedia> Is the number of media arguments which follow.
# <source media list> The list of source files specified on the LOAD
# command, each surrounded by double quote (")
# characters.
#
#FILE_TRANSFER_CMD=

# SPLIT_FILE_LOCATION... The complete path name of the location
# - to place the split files if in SPLIT_ONLY mode
# - to look for split files if in LOAD_ONLY mode
# If not specified, and in SPLIT_ONLY mode, the split
# files are placed in the current working directory.
# If not specified, and in LOAD_ONLY mode, the
# Autoloader utility looks for the split files in the
# current working directory.
#SPLIT_FILE_LOCATION=/u/user/

# OUTPUT_NODES ... Database partitions on which load is to be performed.
# The supplied partition numbers must be a subset of database
# partitions on which the table is defined. The default is all
# database partitions that the table is defined on.
#OUTPUT_NODES=(0,1)

# SPLIT_NODES ... The list of database partitions participating in the
# splitting process. Splitting database partitions may be
# the same or different from the database partitions being
# loaded. If not defined the Autoloader automatically
# determines how many partitions are needed for splitting,
# and which partitions are used for splitting, in order to
# achieve optimal performance.
# How to determine the number of partitions follows these
# rules:
#
# - If there is no ANYORDER modifier in the LOAD command,
# there will always be only one splitter used in the
# Autoloader session; and,
#
# o If there is only one partition in the OUTPUT_NODES
# parameter, or the working partition of Autoloader is
# not an element of OUTPUT_NODES, then the working
# partition of Autoloader is used as the splitting
# partition.
#
# o Otherwise, the first partition other than the working
# partition of Autoloader found in OUTPUT_NODES
# is used as the splitting partition.
#
# - If there is an ANYORDER modifier in the LOAD command,
#
# o First, the number of splitters is determined by,
#
# (number of partitions in OUTPUT_NODES)/4 + 1
#
#
# o Then the number of splitting partitions (from the
```

```

#           previous step) are chosen from the OUTPUT_NODES,
#           excluding the working partition of Autoloader.
#
#SPLIT_NODES=(0)

# RUN_STAT_NODE ... If "statistics yes" is specified in the LOAD command, then
#           statistics will be collected only on one database partition.
#           This parameter specifies the database partition you wish to
#           collect statistics on. If left blank or -1, the default is
#           the first database partition in output partition list.
#RUN_STAT_NODE=-1

#####
#
# Optional Autoloader parameters ... These may or may not be specified.

# MODE ... Specify the mode to run Autoloader in.
#           SPLIT_AND_LOAD is the default.
#
#           Other valid values are:
#           SPLIT_ONLY ... Load process is not performed. Output from the
#                           splitting database partitions is written to files
#                           in the SPLIT_FILE_LOCATION or in the current
#                           Autoloader working directory.
#
#           LOAD_ONLY ... Data must be pre-split. The split files are sent
#                           to correct database partition for loading. The split
#                           filenames must follow the convention filename.xxx
#                           where filename was provided in the LOAD command and
#                           xxx is the nodenumber. Also, it is assumed that
#                           filename.xxx is in the SPLIT_FILE_LOCATION or
#                           in the current Autoloader working directory.
#
#           ANALYZE ... This option is used to generate an optimal
#                           partition map for a nodegroup.
MODE=SPLIT_ONLY

# LOGFILE ... This name is used as a base name to create the following files.
#
#           <logfile>.split.cfg ...
#                           configuration file for all splitters
#           <logfile>.split.<3-digit-node-number>.log...
#                           log file for each splitter
#           <logfile>.pmap.<pid> ...
#                           internal temporary file, where <pid> is the process id
#                           of this Autoloader job
#           <logfile>.load.<3-digit-node-number>...
#                           the message file for each loading process if there is no
#                           message file specified in the load command
#
#           You may include a path in the LOGFILE parameter, however
#           you must ensure the existence and accessibility of the path.
#           The default is "/autoloader.log".
#
#           NOTE: In the case where there are multiple concurrent
#           Autoloader sessions, you must ensure either the base name
#           of LOGFILE or the path name of LOGFILE is unique.
LOGFILE=../FireStorm

# NOTNFS_DIR ... This parameter is obsolete, however it is kept here for
#           backward compatibility
#
NOTNFS_DIR=/notnfs

# AUTHENTICATION ... Indicates if a password will be used for remote
#           invocation of the splitter program or not; and if
#           a password will be used for database connections.
#           Valid values can be YES or NO, the default being
#           NO (no password checking). If AUTHENTICATION=YES,
#           and no password is specified either in this
#           configuration file or through the use of the
#           DB2ATLD_PWFILE db2 registry variable, the user is
#           prompted to type in a password on the console.
#AUTHENTICATION=NO

# PASSWORD ... It defines the password which is used for remote
#           invocation of the splitter process, and database connections
#           used by the loading process. By default, no password will

```

```

#           be used. If AUTHENTICATION=NO, the password is ignored
#           (if any). If the DB2 registry value DB2ATLD_PWFILE is defined
#           at the time of Autoloader invocation, the PASSWORD
#           configuration parameter will be ignored. Instead, the first
#           word of the file specified by the value of the DB2ATLD_PWFILE
#           variable will be used as the password. Please note, password
#           is mandatory in some systems only when splitter(s) are executed
#           in node(s) other than the autoloader itself.
#PASSWORD=

# MAX_NUM_SPLITTERS ... It sets the limit of the maximum number of splitters
#           used in an Autoloader session. The default is
#           25 splitters.
#MAX_NUM_SPLITTERS=25

# FORCE ... Forces the Autoloader job to continue even if the Autoloader
#           detects (at startup time) that some target partitions or
#           table spaces are offline. If "NO", and some partitions are
#           unavailable, then no data will be processed.
#           If "YES", database partitions which are available will be
#           loaded, and all others will be ignored.
#           The default for this parameter is "NO".
#FORCE=NO

# STATUS_INTERVAL ... The interval that Autoloader will generate
#           progress messages to stdout to notify you of the
#           volume of data that has been read into the utility
#           so far. The unit of measurement is megabytes (MB).
#           The default is 100 MB. Valid values are whole
#           numbers in the range of 1 to 4000.
#STATUS_INTERVAL=100

# PORTS ... It defines the range of TCP ports used to create sockets for
#           internal communications in Autoloader. If not defined, Autoloader
#           uses a default range from 6063 down to 6000.
#           If defined at the time of Autoloader invocation, the value of the
#           DB2ATLD_PORTS DB2 registry value will replace the value of the
#           PORTS configuration parameter.
#PORTS=<lower-port-number>:<higher-port-number>

#####
#
# Optional Splitter parameters ... These may or may not be specified.

# CHECK_LEVEL ... Can be either CHECK or NOCHECK
#           - CHECK: Program checks for truncation of record at
#                           Input/Output.
#           - NOCHECK: Program will not check for truncation of record
#                           at Input/Output (default).
CHECK_LEVEL=NOCHECK

# MAP_FILE_INPUT ... Input filename for the partitioning map. If the
#           partitioning map is customized rather than a
#           default map, this parameter must be specified.
#           It points to the file containing the customized
#           partitioning map. You can get a customized
#           partitioning map by either using the db2gpmap program
#           to extract the map from the database system catalog
#           table; or you can run the ANALYZE mode of db2atld
#           to generate an optimal map. The map generated by the
#           ANALYZE mode must be moved to each database partition
#           in your database before actual loading can proceed.
#
#MAP_FILE_INPUT=filename_of_your_customized_partitioning_map

# MAP_FILE_OUTPUT ... Output file name for partitioning map. This parameter
#           should be used with the db2atld program executed
#           in ANALYZE mode. An optimal partitioning map with even
#           distribution across all database partitions is generated.
#           If it is not specified and the running mode is ANALYZE,
#           the program exits with an error.
#MAP_FILE_OUTPUT=filename_for_your_optimal_partitioning_map

# TRACE ... Tracing hashing values. Dump of all the data conversion process
#           and output of hashing values. Argument is the number of records
#           to trace. If not defined, it takes default value of 0.
TRACE=1

```

```
# NEWLINE ... Only meaningful if the input data file is anASC file with each
# record delimited by a new line character, and the RecLen
# parameter in the load command is specified.
# If YES, Autoloader always checks if the record is terminated
# by a new line character or not. It also checks if the record
# length is the same as the expected RecLen or not. The default
# for this parameter is NO.
#NEWLINE=YES
```

orders.cfg

```
#####
# Release level of this configuration file.
# Please do not delete or modify this line.
RELEASE=V5.01

# LOAD Command
# - Specify a complete LOAD command including thefile_name, file_type,
# schema and the table_name.
#
# - The Autoloader utility requires that LOAD command conforms to the
# format of the "db2 -f" file, except the extra leading "db2" keyword.
# There is no need to escape special shell characters in the LOAD
# command.
#
# - If the last character on a line is a backslash '\' character,
# the next line is a continuation of the current line, i.e. the backslash
# and end-of-line character(s) are ignored.
#
# - Refer to the Command Reference for the complete Load syntax.

# DEL data file
# -----
db2 load from orders.dat of del modified by coldel| replace into tpcc.orders

# ASC data file
# -----
# db2 load from your_data of asc modified by reclen=19\
# method L (1 16, 17 18) replace into your_schema.your_table

#####
# Miscellaneous Autoloader Parameters

# DATABASE ... Name of the database being loaded into.
# If not specified, database "sample" is used.
DATABASE=tpcc

# HOSTNAME ... Name of the remote machine where the data file resides. This
# may be an MVS host or another workstation. If not specified,
# and FILE_TRANSFER_CMD is set, then the hostname "nohost"
# will be passed to the FILE_TRANSFER_CMD in the <hostname>
# argument.
#
#HOSTNAME=

# FILE_TRANSFER_CMD ... A user-specified file executable, batch file,
# script, or something similar that the Autoloader will
# call before invoking the LOAD utility on any
# partitions.
#
# The value specified must be a fully-qualified
# path, accessible to the Autoloader. The full path,
# including the execution file name, must not
# exceed 254 characters
#
# The Autoloader will invoke this command with
# the following syntax:
#
# <COMMAND> <logpath> <hostname> <basepipename> <nummedia> <source media
list>
#
# Where:
#
# <COMMAND> Is the command specified by FILE_TRANSFER_CMD.
# <logpath> The Autoloader log path. The COMMAND program may
# opt to write diagnostic or temporary data to this
```

```
# path.
# <hostname> Is the value of HOSTNAME specified in this
# configuration file.
# <basepipename> Is the base name for named-pipes that db2atld
# will create, and expect to receive data from.
# The Autoloader creates one pipe for every
# source file on the LOAD command.
# Each of these files is suffixed with .XXX,
# where XXX is the index of the source file on
# the LOAD command.
# For example, if there were 2 source files
# on the LOAD command, and the <pipename>
# was "pipe123", the Autoloader would
# create two named pipes for reading: pipe123.000
# and pipe123.001. The <COMMAND> file should
# populate these named pipes with user data.
# <nummedia> Is the number of media arguments which follow.
# <source media list> The list of source files specified on the LOAD
# command, each surrounded by double quote (")
# characters.
#
#FILE_TRANSFER_CMD=

# SPLIT_FILE_LOCATION... The complete path name of the location
# - to place the split files if in SPLIT_ONLY mode
# - to look for split files if in LOAD_ONLY mode
# If not specified, and in SPLIT_ONLY mode, the split
# files are placed in the current working directory.
# If not specified, and in LOAD_ONLY mode, the
# Autoloader utility looks for the split files in the
# current working directory.
#SPLIT_FILE_LOCATION=/u/user/

# OUTPUT_NODES ... Database partitions on which load is to be performed.
# The supplied partition numbers must be a subset of database
# partitions on which the table is defined. The default is all
# database partitions that the table is defined on.
#OUTPUT_NODES=(0,1)

# SPLIT_NODES ... The list of database partitions participating in the
# splitting process. Splitting database partitions may be
# the same or different from the database partitions being
# loaded. If not defined the Autoloader automatically
# determines how many partitions are needed for splitting,
# and which partitions are used for splitting, in order to
# achieve optimal performance.
# How to determine the number of partitions follows these
# rules:
#
# - If there is no ANYORDER modifier in the LOAD command,
# there will always be only one splitter used in the
# Autoloader session; and,
#
# o If there is only one partition in the OUTPUT_NODES
# parameter, or the working partition of Autoloader is
# not an element of OUTPUT_NODES, then the working
# partition of Autoloader is used as the splitting
# partition.
#
# o Otherwise, the first partition other than the working
# partition of Autoloader found in OUTPUT_NODES
# is used as the splitting partition.
#
# - If there is an ANYORDER modifier in the LOAD command,
#
# o First, the number of splitters is determined by,
#
# (number of partitions in OUTPUT_NODES)/4 + 1
#
#
# o Then the number of splitting partitions (from the
# previous step) are chosen from the OUTPUT_NODES,
# excluding the working partition of Autoloader.
#
#SPLIT_NODES=(0)

# RUN_STAT_NODE ... If "statistics yes" is specified in the LOAD command, then
# statistics will be collected only on one database partition.
# This parameter specifies the database partition you wish to
# collect statistics on. If left blank or -1, the default is
# the first database partition in output partition list.
#RUN_STAT_NODE=-1

#####
```

```

#
# Optional Autoloader parameters ... These may or may not be specified.

# MODE ... Specify the mode to run Autoloader in.
#   SPLIT_AND_LOAD is the default.
#
#   Other valid values are:
#   SPLIT_ONLY ... Load process is not performed. Output from the
#                   splitting database partitions is written to files
#                   in the SPLIT_FILE_LOCATION or in the current
#                   Autoloader working directory.
#
#   LOAD_ONLY ... Data must be pre-split. The split files are sent
#                 to correct database partition for loading. The split
#                 filenames must follow the convention filename.xxx
#                 where filename was provided in the LOAD command and
#                 xxx is the nodenumber. Also, it is assumed that
#                 filename.xxx is in the SPLIT_FILE_LOCATION or
#                 in the current Autoloader working directory.
#
#   ANALYZE ... This option is used to generate an optimal
#               partition map for a nodegroup.
MODE=SPLIT_ONLY

# LOGFILE ... This name is used as a base name to create the following files.
#
#   <logfile>.split.cfg ...
#   configuration file for all splitters
#   <logfile>.split.<3-digit-node-number>.log...
#   log file for each splitter
#   <logfile>.pmap.<pid>...
#   internal temporary file, where <pid> is the process id
#   of this Autoloader job
#   <logfile>.load.<3-digit-node-number>...
#   the message file for each loading process if there is no
#   message file specified in the load command
#
#   You may include a path in the LOGFILE parameter, however
#   you must ensure the existence and accessibility of the path.
#   The default is "/autoloader.log".
#
#   NOTE: In the case where there are multiple concurrent
#   Autoloader sessions, you must ensure either the base name
#   of LOGFILE or the path name of LOGFILE is unique.
LOGFILE=../FireStorm

# NOTNFS_DIR ... This parameter is obsolete, however it is kept here for
#               backward compatibility
#
# NOTNFS_DIR=/notnfs

# AUTHENTICATION ... Indicates if a password will be used for remote
#                   invocation of the splitter program or not; and if
#                   a password will be used for database connections.
#                   Valid values can be YES or NO, the default being
#                   NO (no password checking). If AUTHENTICATION=YES,
#                   and no password is specified either in this
#                   configuration file or through the use of the
#                   DB2ATLD_PWFILE db2 registry variable, the user is
#                   prompted to type in a password on the console.
#AUTHENTICATION=NO

# PASSWORD ... It defines the password which is used for remote
#              invocation of the splitter process, and database connections
#              used by the loading process. By default, no password will
#              be used. If AUTHENTICATION=NO, the password is ignored
#              (if any). If the DB2 registry value DB2ATLD_PWFILE is defined
#              at the time of Autoloader invocation, the PASSWORD
#              configuration parameter will be ignored. Instead, the first
#              word of the file specified by the value of the DB2ATLD_PWFILE
#              variable will be used as the password. Please note, password
#              is mandatory in some systems only when splitter(s) are executed
#              in node(s) other than the autoloader itself.
#PASSWORD=

# MAX_NUM_SPLITTERS ... It sets the limit of the maximum number of splitters
#                       used in an Autoloader session. The default is
#                       25 splitters.

```

```

#MAX_NUM_SPLITTERS=25

# FORCE ... Forces the Autoloader job to continue even if the Autoloader
#         detects (at startup time) that some target partitions or
#         table spaces are offline. If "NO", and some partitions are
#         unavailable, then no data will be processed.
#         If "YES", database partitions which are available will be
#         loaded, and all others will be ignored.
#         The default for this parameter is "NO".
#FORCE=NO

# STATUS_INTERVAL ... The interval that Autoloader will generate
#                     progress messages to stdout to notify you of the
#                     volume of data that has been read into the utility
#                     so far. The unit of measurement is megabytes (MB).
#                     The default is 100 MB. Valid values are whole
#                     numbers in the range of 1 to 4000.
#STATUS_INTERVAL=100

# PORTS ... It defines the range of TCP ports used to create sockets for
#           internal communications in Autoloader. If not defined, Autoloader
#           uses a default range from 6063 down to 6000.
#           If defined at the time of Autoloader invocation, the value of the
#           DB2ATLD_PORTS DB2 registry value will replace the value of the
#           PORTS configuration parameter.
#PORTS=<lower-port-number>:<higher-port-number>

#####
#
# Optional Splitter parameters ... These may or may not be specified.

# CHECK_LEVEL ... Can be either CHECK or NOCHECK
#               - CHECK: Program checks for truncation of record at
#               Input/Output.
#               - NOCHECK: Program will not check for truncation of record
#               at Input/Output (default).
CHECK_LEVEL=NOCHECK

# MAP_FILE_INPUT ... Input filename for the partitioning map. If the
#                   partitioning map is customized rather than a
#                   default map, this parameter must be specified.
#                   It points to the file containing the customized
#                   partitioning map. You can get a customized
#                   partitioning map by either using the db2gpmmap program
#                   to extract the map from the database system catalog
#                   table; or you can run the ANALYZE mode of db2atld
#                   to generate an optimal map. The map generated by the
#                   ANALYZE mode must be moved to each database partition
#                   in your database before actual loading can proceed.
#
#MAP_FILE_INPUT=filename_of_your_customized_partitioning_map

# MAP_FILE_OUTPUT ... Output file name for partitioning map. This parameter
#                   should be used with the db2atld program executed
#                   in ANALYZE mode. An optimal partitioning map with even
#                   distribution across all database partitions is generated.
#                   If it is not specified and the running mode is ANALYZE,
#                   the program exits with an error.
#MAP_FILE_OUTPUT=filename_for_your_optimal_partitioning_map

# TRACE ... Tracing hashing values. Dump of all the data conversion process
#           and output of hashing values. Argument is the number of records
#           to trace. If not defined, it takes default value of 0.
TRACE=1

# NEWLINE ... Only meaningful if the input data file is an ASC file with each
#             record delimited by a new line character, and the RecLen
#             parameter in the load command is specified.
#             If YES, Autoloader always checks if the record is terminated
#             by a new line character or not. It also checks if the record
#             length is the same as the expected RecLen or not. The default
#             for this parameter is NO.
#NEWLINE=YES

```

stock.cfg

```
#####
```

```

# Release level of this configuration file.
# Please do not delete or modify this line.
RELEASE=V5.01

# LOAD Command
# - Specify a complete LOAD command including thefile_name, file_type,
#   schema and the table_name.
#
# - The Autoloader utility requires that LOAD command conforms to the
#   format of the "db2 -f" file, except the extra leading "db2" keyword.
#   There is no need to escape special shell characters in the LOAD
#   command.
#
# - If the last character on a line is a backslash '\' character,
#   the next line is a continuation of the current line, i.e. the backslash
#   and end-of-line character(s) are ignored.
#
# - Refer to the Command Reference for the complete Load syntax.

# DEL data file
# -----
db2 load from stock.dat of del modified by coldel| replace into tpcc.stock

# ASC data file
# -----
# db2 load from your_data of asc modified by reclen=19\
# method L (1 16, 17 18) replace into your_schema.your_table

#####
#
# Miscellaneous Autoloader Parameters

# DATABASE ... Name of the database being loaded into.
#   If not specified, database "sample" is used.
DATABASE=tpcc

# HOSTNAME ... Name of the remote machine where the data file resides. This
#   may be an MVS host or another workstation. If not specified,
#   and FILE_TRANSFER_CMD is set, then the hostname "nohost"
#   will be passed to the FILE_TRANSFER_CMD in the <hostname>
#   argument.
#
#HOSTNAME=

# FILE_TRANSFER_CMD ... A user-specified file executable, batch file,
#   script, or something similar that the Autoloader will
#   call before invoking the LOAD utility on any
#   partitions.
#
#   The value specified must be a fully-qualified
#   path, accessible to the Autoloader. The full path,
#   including the execution file name, must not
#   exceed 254 characters
#
#   The Autoloader will invoke this command with
#   the following syntax:
#
# <COMMAND> <logpath> <hostname> <basepipename> <nummedia> <source media
list>
#
#   Where:
#
#   <COMMAND>      Is the command specified by FILE_TRANSFER_CMD.
#   <logpath>       The Autoloader log path. The COMMAND program may
#                   opt to write diagnostic or temporary data to this
#                   path.
#   <hostname>      Is the value of HOSTNAME specified in this
#                   configuration file.
#   <basepipename>  Is the base name for named-pipes that db2atld
#                   will create, and expect to receive data from.
#                   The Autoloader creates one pipe for every
#                   source file on the LOAD command.
#                   Each of these files is suffixed with .XXX,
#                   where XXX is the index of the source file on
#                   the LOAD command.
#                   For example, if there were 2 source files
#                   on the LOAD command, and the <pipename>
#                   was "pipe123", the Autoloader would

```

```

#
#   create two named pipes for reading: pipe123.000
#   and pipe123.001. The <COMMAND> file should
#   populate these named pipes with user data.
#   <nummedia>      Is the number of media arguments which follow.
#   <source media list> The list of source files specified on the LOAD
#                   command, each surrounded by double quote (")
#                   characters.
#
#FILE_TRANSFER_CMD=

# SPLIT_FILE_LOCATION... The complete path name of the location
#   - to place the split files if in SPLIT_ONLY mode
#   - to look for split files if in LOAD_ONLY mode
#   If not specified, and in SPLIT_ONLY mode, the split
#   files are placed in the current working directory.
#   If not specified, and in LOAD_ONLY mode, the
#   Autoloader utility looks for the split files in the
#   current working directory.
#SPLIT_FILE_LOCATION=/u/user/

# OUTPUT_NODES ... Database partitions on which load is to be performed.
#   The supplied partition numbers must be a subset of database
#   partitions on which the table is defined. The default is all
#   database partitions that the table is defined on.
#OUTPUT_NODES=(0,1)

# SPLIT_NODES ... The list of database partitions participating in the
#   splitting process. Splitting database partitions may be
#   the same or different from the database partitions being
#   loaded. If not defined the Autoloader automatically
#   determines how many partitions are needed for splitting,
#   and which partitions are used for splitting, in order to
#   achieve optimal performance.
#   How to determine the number of partitions follows these
#   rules:
#   - If there is no ANYORDER modifier in the LOAD command,
#     there will always be only one splitter used in the
#     Autoloader session; and,
#     o If there is only one partition in the OUTPUT_NODES
#       parameter, or the working partition of Autoloader is
#       not an element of OUTPUT_NODES, then the working
#       partition of Autoloader is used as the splitting
#       partition.
#     o Otherwise, the first partition other than the working
#       partition of Autoloader found in OUTPUT_NODES
#       is used as the splitting partition.
#   - If there is an ANYORDER modifier in the LOAD command,
#     o First, the number of splitters is determined by,
#
#       (number of partitions in OUTPUT_NODES)/4 + 1
#
#     o Then the number of splitting partitions (from the
#       previous step) are chosen from the OUTPUT_NODES,
#       excluding the working partition of Autoloader.
#
#SPLIT_NODES=(0)

# RUN_STAT_NODE ... If "statistics yes" is specified in the LOAD command, then
#   statistics will be collected only on one database partition.
#   This parameter specifies the database partition you wish to
#   collect statistics on. If left blank or -1, the default is
#   the first database partition in output partition list.
#RUN_STAT_NODE=-1

#####
#
# Optional Autoloader parameters ... These may or may not be specified.

# MODE ... Specify the mode to run Autoloader in.
#   SPLIT_AND_LOAD is the default.
#
#   Other valid values are:
#   SPLIT_ONLY ... Load process is not performed. Output from the
#                   splitting database partitions is written to files
#                   in the SPLIT_FILE_LOCATION or in the current
#                   Autoloader working directory.
#
#   LOAD_ONLY ... Data must be pre-split. The split files are sent

```

```

#           to correct database partition for loading. The split
#           filenames must follow the convention filename.xxx
#           where filename was provided in the LOAD command and
#           xxx is the nodenumber. Also, it is assumed that
#           filename.xxx is in the SPLIT_FILE_LOCATION or
#           in the current Autoloader working directory.
#
# ANALYZE ... This option is used to generate an optimal
#             partition map for a nodegroup.
MODE=SPLIT_ONLY

# LOGFILE ... This name is used as a base name to create the following files.
#
#           <logfile>.split.cfg ...
#           configuration file for all splitters
#           <logfile>.split.<3-digit-node-number>.log...
#           log file for each splitter
#           <logfile>.pmap.<pid>...
#           internal temporary file, where <pid> is the process id
#           of this Autoloader job
#           <logfile>.load.<3-digit-node-number>...
#           the message file for each loading process if there is no
#           message file specified in the load command
#
# You may include a path in the LOGFILE parameter, however
# you must ensure the existence and accessibility of the path.
# The default is "/autoloader.log".
#
# NOTE: In the case where there are multiple concurrent
# Autoloader sessions, you must ensure either the base name
# of LOGFILE or the path name of LOGFILE is unique.
LOGFILE=~/FireStorm

# NOTNFS_DIR ... This parameter is obsolete, however it is kept here for
# backward compatibility
#
# NOTNFS_DIR=/notnfs

# AUTHENTICATION ... Indicates if a password will be used for remote
# invocation of the splitter program or not; and if
# a password will be used for database connections.
# Valid values can be YES or NO, the default being
# NO (no password checking). If AUTHENTICATION=YES,
# and no password is specified either in this
# configuration file or through the use of the
# DB2ATLD_PWFILE db2 registry variable, the user is
# prompted to type in a password on the console.
#AUTHENTICATION=NO

# PASSWORD ... It defines the password which is used for remote
# invocation of the splitter process, and database connections
# used by the loading process. By default, no password will
# be used. If AUTHENTICATION=NO, the password is ignored
# (if any). If the DB2 registry value DB2ATLD_PWFILE is defined
# at the time of Autoloader invocation, the PASSWORD
# configuration parameter will be ignored. Instead, the first
# word of the file specified by the value of the DB2ATLD_PWFILE
# variable will be used as the password. Please note, password
# is mandatory in some systems only when splitter(s) are executed
# in node(s) other than the autoloader itself.
#PASSWORD=

# MAX_NUM_SPLITTERS ... It sets the limit of the maximum number of splitters
# used in an Autoloader session. The default is
# 25 splitters.
#MAX_NUM_SPLITTERS=25

# FORCE ... Forces the Autoloader job to continue even if the Autoloader
# detects (at startup time) that some target partitions or
# table spaces are offline. If "NO", and some partitions are
# unavailable, then no data will be processed.
# If "YES", database partitions which are available will be
# loaded, and all others will be ignored.
# The default for this parameter is "NO".
#FORCE=NO

# STATUS_INTERVAL ... The interval that Autoloader will generate
# progress messages to stdout to notify you of the

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#           volume of data that has been read into the utility
#           so far. The unit of measurement is megabytes (MB).
#           The default is 100 MB. Valid values are whole
#           numbers in the range of 1 to 4000.
#STATUS_INTERVAL=100

# PORTS ... It defines the range of TCP ports used to create sockets for
# internal communications in Autoloader. If not defined, Autoloader
# uses a default range from 6063 down to 6000.
# If defined at the time of Autoloader invocation, the value of the
# DB2ATLD_PORTS DB2 registry value will replace the value of the
# PORTS configuration parameter.
#PORTS=<lower-port-number>:<higher-port-number>

#####
#
# Optional Splitter parameters ... These may or may not be specified.

# CHECK_LEVEL ... Can be either CHECK or NOCHECK
# - CHECK: Program checks for truncation of record at
#   Input/Output.
# - NOCHECK: Program will not check for truncation of record
#   at Input/Output (default).
CHECK_LEVEL=NOCHECK

# MAP_FILE_INPUT ... Input filename for the partitioning map. If the
# partitioning map is customized rather than a
# default map, this parameter must be specified.
# It points to the file containing the customized
# partitioning map. You can get a customized
# partitioning map by either using the db2gmap program
# to extract the map from the database system catalog
# table; or you can run the ANALYZE mode of db2atld
# to generate an optimal map. The map generated by the
# ANALYZE mode must be moved to each database partition
# in your database before actual loading can proceed.
#
#MAP_FILE_INPUT=filename_of_your_customized_partitioning_map

# MAP_FILE_OUTPUT ... Output file name for partitioning map. This parameter
# should be used with the db2atld program executed
# in ANALYZE mode. An optimal partitioning map with even
# distribution across all database partitions is generated.
# If it is not specified and the running mode is ANALYZE,
# the program exits with an error.
#MAP_FILE_OUTPUT=filename_for_your_optimal_partitioning_map

# TRACE ... Tracing hashing values. Dump of all the data conversion process
# and output of hashing values. Argument is the number of records
# to trace. If not defined, it takes default value of 0.
TRACE=1

# NEWLINE ... Only meaningful if the input data file is an ASC file with each
# record delimited by a new line character, and the RecLen
# parameter in the load command is specified.
# If YES, Autoloader always checks if the record is terminated
# by a new line character or not. It also checks if the record
# length is the same as the expected RecLen or not. The default
# for this parameter is NO.
#NEWLINE=YES

warehouse.cfg

#####
# Release level of this configuration file.
# Please do not delete or modify this line.
RELEASE=V5.01

# LOAD Command
# - Specify a complete LOAD command including the file_name, file_type,
#   schema and the table_name.
#
# - The Autoloader utility requires that LOAD command conforms to the
#   format of the "db2 -f" file, except the extra leading "db2" keyword.
# There is no need to escape special shell characters in the LOAD
# command.
#

```

```

# - If the last character on a line is a backslash '\', character,
# the next line is a continuation of the current line, i.e. the backslash
# and end-of-line character(s) are ignored.
#
# - Refer to the Command Reference for the complete Load syntax.

# DEL data file
# -----
db2 load from warehouse.dat of del modified by coldel| replace into tpcc.warehouse

# ASC data file
# -----
# db2 load from your_data of asc modified by reclen=19\
# method L (1 16, 17 18) replace into your_schema.your_table

#####
#
# Miscellaneous Autoloader Parameters

# DATABASE ... Name of the database being loaded into.
# If not specified, database "sample" is used.
DATABASE=tpcc

# HOSTNAME ... Name of the remote machine where the data file resides. This
# may be an MVS host or another workstation. If not specified,
# and FILE_TRANSFER_CMD is set, then the hostname "nohost"
# will be passed to the FILE_TRANSFER_CMD in the <hostname>
# argument.
#
#HOSTNAME=

# FILE_TRANSFER_CMD ... A user-specified file executable, batch file,
# script, or something similar that the Autoloader will
# call before invoking the LOAD utility on any
# partitions.
#
# The value specified must be a fully-qualified
# path, accessible to the Autoloader. The full path,
# including the execution file name, must not
# exceed 254 characters
#
# The Autoloader will invoke this command with
# the following syntax:
#
# <COMMAND> <logpath> <hostname> <basepipename> <nummedia> <source media
list>
#
# Where:
#
# <COMMAND> Is the command specified by FILE_TRANSFER_CMD.
# <logpath> The Autoloader log path. The COMMAND program may
# opt to write diagnostic or temporary data to this
# path.
# <hostname> Is the value of HOSTNAME specified in this
# configuration file.
# <basepipename> Is the base name for named-pipes that db2atld
# will create, and expect to receive data from.
# The Autoloader creates one pipe for every
# source file on the LOAD command.
# Each of these files is suffixed with .XXX,
# where XXX is the index of the source file on
# the LOAD command.
# For example, if there were 2 source files
# on the LOAD command, and the <pipename>
# was "pipe123", the Autoloader would
# create two named pipes for reading: pipe123.000
# and pipe123.001. The <COMMAND> file should
# populate these named pipes with user data.
# <nummedia> Is the number of media arguments which follow.
# <source media list> The list of source files specified on the LOAD
# command, each surrounded by double quote (")
# characters.
#
#FILE_TRANSFER_CMD=

# SPLIT_FILE_LOCATION... The complete path name of the location
# - to place the split files if in SPLIT_ONLY mode
# - to look for split files if in LOAD_ONLY mode

```

```

# If not specified, and in SPLIT_ONLY mode, the split
# files are placed in the current working directory.
# If not specified, and in LOAD_ONLY mode, the
# Autoloader utility looks for the split files in the
# current working directory.
#SPLIT_FILE_LOCATION=/u/user/

# OUTPUT_NODES ... Database partitions on which load is to be performed.
# The supplied partition numbers must be a subset of database
# partitions on which the table is defined. The default is all
# database partitions that the table is defined on.
#OUTPUT_NODES=(0,1)

# SPLIT_NODES ... The list of database partitions participating in the
# splitting process. Splitting database partitions may be
# the same or different from the database partitions being
# loaded. If not defined the Autoloader automatically
# determines how many partitions are needed for splitting,
# and which partitions are used for splitting, in order to
# achieve optimal performance.
# How to determine the number of partitions follows these
# rules:
#
# - If there is no ANYORDER modifier in the LOAD command,
# there will always be only one splitter used in the
# Autoloader session; and,
# o If there is only one partition in the OUTPUT_NODES
# parameter, or the working partition of Autoloader is
# not an element of OUTPUT_NODES, then the working
# partition of Autoloader is used as the splitting
# partition.
# o Otherwise, the first partition other than the working
# partition of Autoloader found in OUTPUT_NODES
# is used as the splitting partition.
# - If there is an ANYORDER modifier in the LOAD command,
# o First, the number of splitters is determined by,
#
# (number of partitions in OUTPUT_NODES)/4 + 1
#
# o Then the number of splitting partitions (from the
# previous step) are chosen from the OUTPUT_NODES,
# excluding the working partition of Autoloader.
#
#SPLIT_NODES=(0)

# RUN_STAT_NODE ... If "statistics yes" is specified in the LOAD command, then
# statistics will be collected only on one database partition.
# This parameter specifies the database partition you wish to
# collect statistics on. If left blank or -1, the default is
# the first database partition in output partition list.
#RUN_STAT_NODE=-1

#####
#
# Optional Autoloader parameters ... These may or may not be specified.

# MODE ... Specify the mode to run Autoloader in.
# SPLIT_AND_LOAD is the default.
#
# Other valid values are:
# SPLIT_ONLY ... Load process is not performed. Output from the
# splitting database partitions is written to files
# in the SPLIT_FILE_LOCATION or in the current
# Autoloader working directory.
#
# LOAD_ONLY ... Data must be pre-split. The split files are sent
# to correct database partition for loading. The split
# filenames must follow the convention filename.xxx
# where filename was provided in the LOAD command and
# xxx is the nodenumber. Also, it is assumed that
# filename.xxx is in the SPLIT_FILE_LOCATION or
# in the current Autoloader working directory.
#
# ANALYZE ... This option is used to generate an optimal
# partition map for a nodegroup.
MODE=SPLIT_ONLY

# LOGFILE ... This name is used as a base name to create the following files.
#

```

```

# <logfile>.split.cfg...
# configuration file for all splitters
# <logfile>.split.<3-digit-node-number>.log...
# log file for each splitter
# <logfile>.pmap.<pid>...
# internal temporary file, where <pid> is the process id
# of this Autoloader job
# <logfile>.load.<3-digit-node-number>...
# the message file for each loading process if there is no
# message file specified in the load command
#
# You may include a path in the LOGFILE parameter, however
# you must ensure the existence and accessibility of the path.
# The default is "/autoloader.log".
#
# NOTE: In the case where there are multiple concurrent
# Autoloader sessions, you must ensure either the base name
# of LOGFILE or the path name of LOGFILE is unique.
#LOGFILE=:/FireStorm

# NOTNFS_DIR ... This parameter is obsolete, however it is kept here for
# backward compatibility
#
#NOTNFS_DIR=/notnfs

# AUTHENTICATION ... Indicates if a password will be used for remote
# invocation of the splitter program or not; and if
# a password will be used for database connections.
# Valid values can be YES or NO, the default being
# NO (no password checking). If AUTHENTICATION=YES,
# and no password is specified either in this
# configuration file or through the use of the
# DB2ATLD_PWFILE db2 registry variable, the user is
# prompted to type in a password on the console.
#AUTHENTICATION=YES

# PASSWORD ... It defines the password which is used for remote
# invocation of the splitter process, and database connections
# used by the loading process. By default, no password will
# be used. If AUTHENTICATION=NO, the password is ignored
# (if any). If the DB2 registry value DB2ATLD_PWFILE is defined
# at the time of Autoloader invocation, the PASSWORD
# configuration parameter will be ignored. Instead, the first
# word of the file specified by the value of the DB2ATLD_PWFILE
# variable will be used as the password. Please note, password
# is mandatory in some systems only when splitter(s) are executed
# in node(s) other than the autoloader itself.
#PASSWORD=

# MAX_NUM_SPLITTERS ... It sets the limit of the maximum number of splitters
# used in an Autoloader session. The default is
# 25 splitters.
#MAX_NUM_SPLITTERS=25

# FORCE ... Forces the Autoloader job to continue even if the Autoloader
# detects (at startup time) that some target partitions or
# table spaces are offline. If "NO", and some partitions are
# unavailable, then no data will be processed.
# If "YES", database partitions which are available will be
# loaded, and all others will be ignored.
# The default for this parameter is "NO".
#FORCE=NO

# STATUS_INTERVAL ... The interval that Autoloader will generate
# progress messages to stdout to notify you of the
# volume of data that has been read into the utility
# so far. The unit of measurement is megabytes (MB).
# The default is 100 MB. Valid values are whole
# numbers in the range of 1 to 4000.
#STATUS_INTERVAL=100

# PORTS ... It defines the range of TCP ports used to create sockets for
# internal communications in Autoloader. If not defined, Autoloader
# uses a default range from 6063 down to 6000.
# If defined at the time of Autoloader invocation, the value of the
# DB2ATLD_PORTS DB2 registry value will replace the value of the
# PORTS configuration parameter.
#PORTS=<lower-port-number>:<higher-port-number>

```

```

#####
#
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# Input/Output.
# - NOCHECK: Program will not check for truncation of record
# at Input/Output (default).
CHECK_LEVEL=NOCHECK

# MAP_FILE_INPUT ... Input filename for the partitioning map. If the
# partitioning map is customized rather than a
# default map, this parameter must be specified.
# It points to the file containing the customized
# partitioning map. You can get a customized
# partitioning map by either using the db2gmap program
# to extract the map from the database system catalog
# table; or you can run the ANALYZE mode of db2atld
# to generate an optimal map. The map generated by the
# ANALYZE mode must be moved to each database partition
# in your database before actual loading can proceed.
#
#MAP_FILE_INPUT=filename_of_your_customized_partitioning_map

# MAP_FILE_OUTPUT ... Output file name for partitioning map. This parameter
# should be used with the db2atld program executed
# in ANALYZE mode. An optimal partitioning map with even
# distribution across all database partitions is generated.
# If it is not specified and the running mode is ANALYZE,
# the program exits with an error.
#MAP_FILE_OUTPUT=filename_for_your_optimal_partitioning_map

# TRACE ... Tracing hashing values. Dump of all the data conversion process
# and output of hashing values. Argument is the number of records
# to trace. If not defined, it takes default value of 0.
TRACE=1

```

```

# NEWLINE ... Only meaningful if the input data file is an ASC file with each
# record delimited by a new line character, and the RecLen
# parameter in the load command is specified.
# If YES, Autoloader always checks if the record is terminated
# by a new line character or not. It also checks if the record
# length is the same as the expected RecLen or not. The default
# for this parameter is NO.
#NEWLINE=YES

```

makepmap.c

```

/*****
*
* Source File Name = makepmap.c
*
* Descriptive Name = Create a non-uniform partition map
*
* Status = Sample program
*
* Function = This module will build a partition map that is non uniform
* based on input from a user.
*
* Compile instructions = cc -o makepmap makepmap.c
*
* Last Changed = 97/06/24
* Change history
* 97/06/16 Version from Chris
* 97/06/24 Support for distribution file, maximum move and
* source partition map added by Gilles Fecteau
* 97/07/23 distribution file handling
* 98/07/14 updated -h information
* 98/07/27 removing -w and correcting the readme and -h information
*
*
*****/
/*****
*-----*/

```

```

/*-----Includes, Defines, and Prototypes-----*/
/*-----*/
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <math.h>

#define PMAP_SIZE 4096
#define MAX_NODES 1000

void comm_line_parse(int argc, char *argv[]);
void display_usage();

/*-----*/
/*-----Global Definitions-----*/
/*-----*/
int in_pmap[PMAP_SIZE]; /* Input partition map from */
/* the original distribution */
int out_pmap[PMAP_SIZE]; /* Resulting partition map */
int dist_w[PMAP_SIZE]; /* file or table distribution */
/* if no distribution provided */
int source_w[MAX_NODES]; /* sum of weights on nodes at */
/* start */
int out_w[MAX_NODES]; /* sum of weights on nodes at */
/* end */
int insert_candidate[MAX_NODES]; /* 1 of this is a candidate node */
int move_w[MAX_NODES]; /* Weight we inserted at a node */
int user_weights[MAX_NODES]; /* user specified weight in cfg */
/* or -c parameter */
int target_w[MAX_NODES]; /* Target as calculated from the */
/* user specification */
/*
int rc=4; /* final return code setting */
/* 0 if some partition moved */
/* 4 if nothing moved */
/* -1 miscellaneous errors */
int moved=0; /* did we move any partition? */
int debug=0; /* turn on with -p */
int debug_p=0; /* number of pmap to print */
int max_move_w=0; /* Maximum weight to insert on */
/* any node */
int a_user_weight=0; /* weight from .cfg file */
char char_node_num[4]="0000"; /* nodenumber in character form */
int node_number; /* working variable */
int max_node_number=0; /* highest node number in system */
int total_user_weight=0; /* total of all user defined */
/* weight values. */
int total_weight=0; /* total weight of all nodes */
/* (sum of distfile values) */
int in_file=0; /* Was an input file given */
int dist_file=0; /* Was a distribution file given */
int dist_file2=0; /* exported distribution format */
int with_weight=1; /* Does input file have weights */
int inline=0; /* All data supplied in command */
int partition=0; /* partition number from file */
int weight=1; /* weight from file */
FILE *output_fp; /* output file pointer */
FILE *input_fp; /* input file pointer */
FILE *dist_file_fp; /* input distribution file */
FILE *db2nodes_fp; /* db2nodes.cfg file pointer */
FILE *log_fp; /* output log file pointer */
char outpmap[256]="pmap.out"; /* output file name */
char inpmap[256]="pmap.in"; /* input file name */
char distfil[256]="uniform"; /* distribution file or uniform */
/* for uniform distribution */
char cfg[256]="db2nodes.cfg"; /* input configuration filename */
char logf[256]="makepmap.log"; /* input configuration filename */

char port[256]; /* dummy part to parse db2nodes */
char netname[256]; /* dummy part to parse db2nodes */
char host[256]; /* dummy part to parse db2nodes */

/*-----*/
*
* Function Name = main()
*
* Input = argc - number of arguments

```

```

* argvalue - array of argument pointers
*
* Output = Partition Map
*
* Normal Return = 0
*
* Error Return = error message will be printed
*
*****/
int main ( int argc, char * argvalue[])
{
    int i,j,ii; /* counters */
    int start_bucket,last_bucket; /* position indicators in map */

    log_fp = fopen (logf,"a");
    if (log_fp == NULL )
    {
        printf ("Cannot open 'Output Log File%s'.\n", logf);
        rc = -1;
        goto exit;
    } /* endif */

    /*-----*/
    /* Print out header information */
    /*-----*/
    printf ("\n\t\tDB2 Universal Database EEE PMAP Generator");
    printf ("\n\t\tVersion 1.10\n");
    fprintf (log_fp, "\n\t\tDB2 Universal Database EEE PMAP Generator");
    fprintf (log_fp, "\n\t\tVersion 1.10\n");

    /*-----*/
    /* Parse the command line */
    /*-----*/
    comm_line_parse(argc, argvalue);

    /*-----*/
    /* make sure input and output PMAP are not the same */
    /*-----*/
    if ((strcmp(inpmap, outpmap, 256)) == 0)
    {
        printf ("Input and Output PMAP cannot be the same.");
        fprintf (log_fp, "Input and Output PMAP cannot be the same.");
        rc = -1;
        goto exit;
    }

    /*-----*/
    /* open the output map file */
    /*-----*/
    printf ("\nOutput PMAP file %s\n", outpmap);
    fprintf (log_fp, "\nOutput PMAP file %s\n", outpmap);
    output_fp = fopen (outpmap, "w");
    if (output_fp == NULL )
    {
        printf ("Cannot open 'Output Map File %s'.\n", outpmap);
        fprintf (log_fp, "Cannot open 'Output Map File %s'.\n", outpmap);
        rc = -1;
        goto exit;
    } /* endif */

    /*-----*/
    /* set user weights to 0 to account for gap in nodes list */
    /*-----*/
    for (i = 0; i < MAX_NODES; i++)
        user_weights[i] = -1; /* -1 means no input weight */

    /*-----*/
    /* If you did not specify -c then we must read the input file */
    /*-----*/
    if (!inline)
    {
        if (!in_file)
            strcpy(cfg, "db2nodes.cfg"); /* Default input file */
    }

```

```

db2nodes_fp = fopen(cfg,"r");
if ( db2nodes_fp == NULL )
{
    printf("\nCannot open input file %s\n",cfg);
    fprintf(log_fp,"\nCannot open input file %s\n",cfg);
    rc= -1;
    printf("\nUse makepmap -h for syntax information");
    goto exit;
} /* endif */

/*****
/* Read the input cfg file for node num and weights(if supplied) */
*****/
a_user_weight = 0;
while(!feof(db2nodes_fp))
{
    if (with_weight)
    {
        fscanf(db2nodes_fp,"%d %s %s %s %d",
            &node_number, host, port, netname, &a_user_weight);
    }
    else
        fscanf(db2nodes_fp,"%d %s %s %s",
            &node_number, host, port, netname);

    user_weights[node_number]=a_user_weight;
    max_node_number= node_number;
}

/*****
/* If the input file does not contain weights, prompt user for them*/
*****/
if (!with_weight)
{
    printf("\n\n\tEnter a weight for each node.\n");
    printf("\tWeights are relative so the sum of all weights does\n");
    printf("\tnot need to add up to 100\n\n");
    for (i = 0; i <= max_node_number; i++)
    {
        if (user_weights[i] != -1) /* skip gaps */
        {
            printf("Enter weight for node number %d:",i);
            fflush(stdout);
            fflush(stdin);
            scanf("%d",&user_weights[i]);
            if (debug)
                printf("\nWeight for node[%d] is %d\n",
                    i, user_weights[i]);
        }
    }
}

/*****
/* Print out the node list array and user assigned weights*/
*****/
printf("\nMax node number= %d\n",max_node_number);
fprintf(log_fp,"\nMax node number= %d\n",max_node_number);
for (i = 0; i <= max_node_number; i++)
{
    if (user_weights[i] != -1) /* skip gaps */
    {
        printf("Weight for node[%d]: %d\n",i,user_weights[i]);
        fprintf(log_fp,"Weight for node[%d]: %d\n",i,user_weights[i]);
    }
}

/*****
/* Calculate the total weight specified by the user*/
*****/
for (i = 0; i <= max_node_number; i++)
{
    if (user_weights[i] != -1) /* skip gaps */
        total_user_weight += user_weights[i];
}

printf("\nTotal user defined weights:%d\n",total_user_weight);
fprintf(log_fp,"\nTotal user defined weights:%d\n",total_user_weight);

```

```

/*****
/* initialize source, target and out weights */
*****/
for (i=0; i <= max_node_number; i++)
{
    source_w[i] = 0;
    out_w[i] = 0;
    target_w[i] = 0;
    move_w[i] = 0;
    insert_candidate[i]=0; /* no inserts */
}

/*****
/* Read the input partition map */
*****/
/* open the file */
input_fp = fopen(inpmap,"r");
if ( input_fp == NULL )
{
    printf("\nCannot open input partition map %s\n",inpmap);
    fprintf(log_fp,"\nCannot open input partition map %s\n",inpmap);
    rc= -1;
    goto exit;
} /* endif */

/* read it */
for (i=0; i < PMAP_SIZE; i++)
{
    j=fscanf(input_fp,"%d",&in_pmap[i]);
    if (j!=1)
    {
        printf("\nInput partition map has only %d entries",i);
        fprintf(log_fp,"\nInput partition map has only %d entries",i);
        rc= -1;
        goto exit;
    }
}
printf("\nInput partition map is %s\n",inpmap);
fprintf(log_fp,"\nInput partition map is %s\n",inpmap);

if (debug_p > 0)
    for (i=0; i<= debug_p; i++)
    {
        printf("\ninput partition %d on node %d",i,in_pmap[i]);
    }

/*****
/* Avoid dividing by zero. */
*****/
if (total_user_weight <= 0)
{
    fprintf(stderr,"Error, Total weight must be > 0\n");
    return(-1);
}

/*****
/* set default uniform distribution */
*****/
for (i=0; i< PMAP_SIZE; i++)
{
    dist_w[i]=1;
    if (dist_file2)
        dist_w[i]=0; /* 0 for distribution file from export */
    /* since we may not have rows for some */
    /* partitions and do not want to move */
    /* partitions with 0 rows */
}

/*****
/* Read distribution file if asked */
*****/
if (dist_file)
{
    printf("\nlooking at distribution file");
    fprintf(log_fp,"\nlooking at distribution file");

    /* open the file */
    dist_file_fp = fopen(distfil,"r");

```

```

if ( dist_file_fp == NULL )
{
    printf ("\\nCannot open input distribution file.\\n",distfil);
    fprintf (log_fp,"\\nCannot open input distribution file.\\n",distfil);
    rc = -1;
    goto exit;
} /* endif */

/* read it */
for (i=0; i < PMAP_SIZE; i++)
{
    j=fscanf(dist_file_fp,"%d",&dist_w[i]);
    if (j!=1)
    {
        printf("\\nDistributionfile has only %d entries",i);
        fprintf(log_fp,"\\nDistributionfile has only %d entries",i);
        rc= -1;
        goto exit;
    }
}

/*****/
/* Read distribution data as exported */
/* in the form partition number,weight */
/*****/
if (dist_file2)
{
    printf ("\\nlooking at exported distribution information");
    fprintf (log_fp,"\\nlooking at exported distribution information");

    /* open the file */
    dist_file_fp = fopen (distfil,"r");
    if ( dist_file_fp == NULL )
    {
        printf ("\\nCannot open -e specified file %s\\n",distfil);
        fprintf (log_fp,"\\nCannot open -e specified file %s\\n",distfil);
        rc = -1;
        goto exit;
    } /* endif */

    /* read it */
    i = 0;
    while(!feof(dist_file_fp))
    {
        fscanf(dist_file_fp,"%d,%d",&partition,&weight);
        if ((partition > 4095) || (partition < 0))
        {
            printf("\\nDistributiondata is invalid for %d",partition);
            fprintf(log_fp,"\\nDistributiondata is invalid for %d",partition);
            rc = -1;
            goto exit;
        }

        i++;
        if (i<=20)
        {
            printf("\\nWeight for partition %d is %d",partition,weight);
            fprintf(log_fp,"\\nWeight for partition %d is %d",partition,weight);
        }
        dist_w[partition] += weight;
    }
}

/*****/
/* calculate total weight */
/* and weight per source node */
/* also set out_weight to in_weight */
/*****/
for (i=0; i < PMAP_SIZE; i++)
{
    total_weight += dist_w[i];
    j = in_pmap[i]; /* the node for partition i */
    source_w[j] += dist_w[i];
    out_w[j] += dist_w[i];
}

/*****/

```

```

/* Avoid a total weight of zero */
/*****/
if (total_weight <= 0)
{
    fprintf(stderr,"Error, Total weight must be > 0\\n");
    fprintf(log_fp,"Error, Total weight must be > 0\\n");
    return(-1);
}

printf("\\nTotal table weights:%d\\n",total_weight);
fprintf(log_fp,"\\nTotal table weights:%d\\n",total_weight);
if (max_move_w == 0)
    max_move_w = total_weight; /* no limit if nonspecified*/

/*****/
/* calculate target weight per node */
/*****/
for (i = 0; i <= max_node_number; i++)
{
    if (user_weights[i] != -1)
    {
        target_w[i] = (user_weights[i]*total_weight)/total_user_weight;
        if (target_w[i] > source_w[i])
        {
            insert_candidate[i] = 1;
            if (debug) printf("\\nnode:%d is candidate for insertions",i);
        }
    }
}

/*****/
/* build the target partition map */
/*****/
printf("\\nMaximummove weight per node is:%d",max_move_w);
fprintf(log_fp,"\\nMaximummove weight per node is:%d",max_move_w);
for (i=0; i < PMAP_SIZE; i++)
{
    j = in_pmap[i]; /* the node number */
    out_pmap[i] = j; /* default no move */
    if (i<debug_p)
        printf("\\npartition:%d node:%d out_w:%d target_w:%d",i,j,out_w[j],target_w[j]);

    if ( (out_w[j] > target_w[j]) &&
        ((move_w[j] + out_w[i]) < max_move_w) ) /* What is move_w */
    {
        /* try to move this partition */
        if ((debug_p > 0) && (i<debug_p))
            printf("\\ntrying to move partition:%d",i);
        for (ii=0; ii <= max_node_number; ii++)
        {
            if (insert_candidate[ii]
                && ((out_w[ii] + dist_w[i]) <= target_w[ii])
                && ((move_w[ii] + dist_w[i]) <= max_move_w)
            )
            {
                /* move pmap i from node j to node ii */
                if ((debug_p > 0) && (i<debug_p))
                    printf("\\nmoving partition:%d from node %d to node %d",i,j,ii);
                out_pmap[i] = ii ;
                out_w[ii] += dist_w[i];
                move_w[ii] += dist_w[i];
                out_w[j] -= dist_w[i];
                move_w[j] += dist_w[i];
                ii = max_node_number + 1; /* force exit */
                rc = 0; /* reset rc on first move */
            }
        }
    }
}

/*****/
/* now write out the partition map */
/*****/
ii = 0;
for (i = 0; i < PMAP_SIZE; i++)
{
    fprintf(output_fp,"%d",out_pmap[i]);
    ii++;
    if (ii==25)

```

```

{
    ii = 0;
    fprintf(output_fp,"\\n");
}
if ((debug_p > 0) & (i<debug_p))
    printf("\\noutputpartition %d on node %d:",i,out_pmap[i]);
}
/*****
/* report on the resulting moves */
*****/
for (i=0; i <= max_node_number; i++)
{
    if ( ( source_w[i] != 0 ) || (target_w[i] != 0) ||
        ( move_w[i] != 0 ) || (out_w[i] != 0) )
    {
        printf("\\nNode[%d]:start %d target %d moved %d end %d",i,source_w[i],
            target_w[i],move_w[i],out_w[i]);
        fprintf(log_fp,"\\nNode[%d]:start %d target %d moved %d end %d",i,source_w[i],
            target_w[i],move_w[i],out_w[i]);
    }
}
}

```

exit:

```

if ( fclose (output_fp) )
{
    printf ("\\nError closing 'Map File'.\\n");
    fprintf (log_fp,"\\nError closing 'Map File'.\\n");
    rc = -1;
}

fprintf(log_fp,"\\n\\nPMapGenerator completed with return code:%d\\n",rc);
printf("\\n\\nPMapGenerator completed with return code:%d\\n",rc);

if ( fclose (log_fp) )
{
    printf ("\\nError closing 'Log File'.\\n");
    rc = -1;
}
return(rc);
} /* end main */

```

```

/*-----*/
/*-----Parse command line options-----*/
/*-----*/

```

```

void comm_line_parse(int argc, char *argv[])
{
    int loopvar = 0;
    int i;
    char tempstr[50];

```

```

/*****
/* Loop through the command line options */
*****/
while ((loopvar < argc) && (argc != 1))
{

```

```

    if (*argv[loopvar] == '-')
    {
        switch(*(argv[loopvar]+1))
        {
            case 'f' :
            case 'F' :
                in_file=1;
                strcpy(cfg,argv[++loopvar]);
                break;

            case 'i' :
            case 'I' :
                strcpy(inpmap,argv[++loopvar]);
                break;

```

```

            case 'o' :
            case 'O' :
                strcpy(outpmap,argv[++loopvar]);
                break;

```

```

            case 'd' :
            case 'D' :
                dist_file=1;
                strcpy(distfil,argv[++loopvar]);
                break;

```

```

            case 'e' :
            case 'E' :
                dist_file2=1;
                strcpy(distfil,argv[++loopvar]);
                break;

```

```

            case 'm' :
            case 'M' :
                strcpy(tempstr,argv[++loopvar]);
                max_move_w = atoi(tempstr);
                break;

```

```

            case 'h' :
            case 'H' :
                display_usage();
                exit(-1);
                break;
            case 'p' :
            case 'P' :
                debug=1;
                strcpy(tempstr,argv[++loopvar]);
                debug_p = atoi(tempstr);
                break;

            default :
                fprintf(stderr,"An invalid option has been set\\n");
                display_usage();
                exit(-1);
                break;

```

```

        } /* end switch */
    } /* end if */

```

```

    loopvar++;
} /* end while */

```

```

/* Check to ensure incompatible options have not been specified */
if (dist_file && dist_file2)
{
    printf("\\nERROR: You cannot specify both -d and -e.\\n\\n");
    display_usage();
    exit(-1);
}

```

```

}
/*****
/* Displays a help screen */
*****/

```

void display_usage()

```

{
    fprintf(stderr,"\\nmakepmap -- version 1.10");
    fprintf(stderr,"\\n ");
    fprintf(stderr,"\\n This program will create a partition map to redistribute");
    fprintf(stderr,"\\n DB2 UDB EEE (or DB2 PE 1.2) data. This program can be used to");
    fprintf(stderr,"\\n create a partition map to:");
    fprintf(stderr,"\\n 1) Redistribute data over non uniform nodes, placing more");
    fprintf(stderr,"\\n data on some nodes than other. ");
    fprintf(stderr,"\\n 2) Limit the amount of data moved in a redistribute step.");
    fprintf(stderr,"\\n 3) Redistribute data, correcting for skew using a distribution");
    fprintf(stderr,"\\n file create by db2split. ");
    fprintf(stderr,"\\n 4) Redistribute data, correcting for skew using distribution");
    fprintf(stderr,"\\n information derived from existing tables.");
    fprintf(stderr,"\\n ");
    fprintf(stderr,"\\n Syntax is: ");
    fprintf(stderr,"\\n makepmap [-f filename] [options] ");
    fprintf(stderr,"\\n ");

```

```

fprintf(stderr, "\n where: -f input configuration file ");
fprintf(stderr, "\n Default - db2nodes.cfg in current directory ");
fprintf(stderr, "\n ");
fprintf(stderr, "\n The configuration file should contain the relative");
fprintf(stderr, "\n target load for each node as the fifth column. ");
fprintf(stderr, "\n The sum of target loads need not add to 100. ");
fprintf(stderr, "\n If a node in the cfg file is not in the nodegroup, ");
fprintf(stderr, "\n specify a load of 0. ");
fprintf(stderr, "\n ");
fprintf(stderr, "\n -h display the readme information. ");
fprintf(stderr, "\n ");
fprintf(stderr, "\n -i input partition map ");
fprintf(stderr, "\n Default - pmap.in in current directory ");
fprintf(stderr, "\n The partition map for a nodegroup can be obtained ");
fprintf(stderr, "\n using the db2gpmmap command. ");
fprintf(stderr, "\n ");
fprintf(stderr, "\n -o output partition map ");
fprintf(stderr, "\n Default - pmap.out in current directory ");
fprintf(stderr, "\n ");
fprintf(stderr, "\n -d distribution file ");
fprintf(stderr, "\n Default - no file, ");
fprintf(stderr, "\n Use this option if a distribution file (generated ");
fprintf(stderr, "\n by the db2split or db2autold commands with the Disfile");
fprintf(stderr, "\n option). ");
fprintf(stderr, "\n If neither -d or -e options are used, the program ");
fprintf(stderr, "\n assumes a uniform distribution of 1 for each of the ");
fprintf(stderr, "\n 4096 partitions. ");
fprintf(stderr, "\n ");
fprintf(stderr, "\n -e distribution data as export ");
fprintf(stderr, "\n Default - no file, ");
fprintf(stderr, "\n Distribution information in the form of pairs ");
fprintf(stderr, "\n of values (partition number, count). ");
fprintf(stderr, "\n This file can be created by exporting the result of ");
fprintf(stderr, "\n a statement such as: ");
fprintf(stderr, "\n SELECT PARTITION(T1.C1), COUNT(*) FROM T1 ");
fprintf(stderr, "\n GROUP BY PARTITION(T1.C1) ");
fprintf(stderr, "\n The file can be a concatenation of multiple export ");
fprintf(stderr, "\n This allow you to provide distribution information");
fprintf(stderr, "\n for more than one table in the nodegroup. ");
fprintf(stderr, "\n ");
fprintf(stderr, "\n If neither -d or -e options are used, the program ");
fprintf(stderr, "\n assumes a uniform distribution of 1 for each of the");
fprintf(stderr, "\n 4096 partitions. ");
fprintf(stderr, "\n ");
fprintf(stderr, "\n -m value ");
fprintf(stderr, "\n The maximum weight to delete or insert on any node. ");
fprintf(stderr, "\n This value is express in term of distribution weight ");
fprintf(stderr, "\n units from -d or -e. ");
fprintf(stderr, "\n When this option is used, the output partition map ");
fprintf(stderr, "\n may not product the targeted distribution as the ");
fprintf(stderr, "\n number of partition to moved is limited by the -m ");
fprintf(stderr, "\n parameter. -m will limit both the number of rows ");
fprintf(stderr, "\n deleted and the number of rows inserted on each node.");
fprintf(stderr, "\n By running makepm2 multiple time, each using the -o ");
fprintf(stderr, "\n pmap from the previous run as input, you can generate");
fprintf(stderr, "\n partitions map to perform the redistribute in step. ");
fprintf(stderr, "\n ");
fprintf(stderr, "\n -p n *** for debug purpose *** ");
fprintf(stderr, "\n print more detail information on the result of the ");
fprintf(stderr, "\n run, including detail of action taken for the first ");
fprintf(stderr, "\n n partitions. ");
}

```

Data Generation

gen_all_local.bat

```

@echo off
call c:\tpcckit_mln\tpccenv1
rem
echo *****
echo Cleaning %TPCC_DATA%...
echo *****
del /Q %TPCC_DATA1%\*.
del /Q %TPCC_DATA2%\*.

```

```

echo ##### COPYING PARTITION KEY INFO for Node %DB2NODE%
#####
copy %TPCC_ROOT%\autoloader_header\warehouse.dat.00%DB2NODE%
%TPCC_DATA1%\warehouse.dat
copy %TPCC_ROOT%\autoloader_header\customer.dat.00%DB2NODE%
%TPCC_DATA1%\customer.dat
copy %TPCC_ROOT%\autoloader_header\district.dat.00%DB2NODE%
%TPCC_DATA1%\district.dat
copy %TPCC_ROOT%\autoloader_header\order_line.dat.00%DB2NODE%
%TPCC_DATA1%\order_line.dat

```

```

copy %TPCC_ROOT%\autoloader_header\history.dat.00%DB2NODE%
%TPCC_DATA2%\history.dat
copy %TPCC_ROOT%\autoloader_header\new_order.dat.00%DB2NODE%
%TPCC_DATA2%\new_order.dat
copy %TPCC_ROOT%\autoloader_header\orders.dat.00%DB2NODE%
%TPCC_DATA2%\orders.dat
copy %TPCC_ROOT%\autoloader_header\stock.dat.00%DB2NODE%
%TPCC_DATA2%\stock.dat

```

```

rem for %t in (warehouse district customer order_line) do "start cmd /C
%TPCC_DBGEN%\gendata1 %t >> %TPCC_DATA%\%t.dat"
rem for %t in (stock history new_order orders) do call %TPCC_DBGEN%\gendata1
%t >> %TPCC_DATA%\%t.dat
start gen_stock.bat
call gen_history.bat
call gen_new_order.bat
call gen_orders.bat

```

```

call gen_warehouse.bat
call gen_customer.bat
call gen_district.bat
call gen_order_line.bat

```

gen_history.bat

```
gendata1 history >> %TPCC_DATA2%\history.dat
```

gen_new_order.bat

```
gendata1 new_order >> %TPCC_DATA2%\new_order.dat
```

gen_order_line.bat

```
gendata1 order_line >> %TPCC_DATA1%\order_line.dat
```

gen_orders.bat

```
gendata1 orders >> %TPCC_DATA2%\orders.dat
```

gen_stock.bat

```
gendata1 stock >> %TPCC_DATA2%\stock.dat
```

gen_warehouse.bat

```
gendata1 warehouse >> %TPCC_DATA1%\warehouse.dat
```

gen_district.bat

```
gendata1 district >> %TPCC_DATA1%\district.dat
```

lval.h

```

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 lval.h - For testing small tpcc databases, the following defines can be set to depending
on the scale of your database.

```

```

3
3   For official runs the valuse must be set to the following:
3
3   WAREHOUSE          ## whatever scale you are using
3   DISTRICTS_PER_WAREHOUSE  10
3   CUSTOMERS_PER_DISTRICT  3000
3   ITEMS               100000
3   STOCK_PER_WAREHOUSE  100000
3   MIN_OL_PER_ORDER    5
3   MAX_OL_PER_ORDER    15
3   NU_ORDERS_PER_DISTRICT  900
3
3   ~~~~~
3   Notes:
3   ITEMS must be = STOCK_PER_WAREHOUSE or else you will get
3   sqlcode = 100 in neword.
3
3   NU_ORDERS_PER_DISTRICT should be < CUSTOMERS_PER_DISTRICT
3   if not, the load of New-Order table will be based on 1/3
3   of the CUSTOMERS_PER_DISTRICT.
3
3   ~~~~~
3   Source File Name: engn/perf/tpcckit/include/lval.h,perf, db2nt_v3, c980410
3   SCCS Id. Number : 4/10/98 1.5
3   ~~~~~
3   Last Changed   : 98/04/06 11:04:51
3   ~~~~~
3   */
3
3   #ifndef __LVAL_H
3   #define __LVAL_H
3
3   #define WAREHOUSES          41760
3   #define DISTRICTS_PER_WAREHOUSE  10
3   #define CUSTOMERS_PER_DISTRICT  3000
3   #define ITEMS               100000
3   #define STOCK_PER_WAREHOUSE  ITEMS
3   #define MIN_OL_PER_ORDER    5
3   #define MAX_OL_PER_ORDER    15
3   #define NU_ORDERS_PER_DISTRICT  900
3
3   #endif
3
gendata.sqc
3
3   ~~~~~
3   file: gendata.sqc
3   ~~~~~
3   TPC-C benchmark of DB2/6000. This program creates the
3   randomly generated data and loads the data into the tables.
3   ~~~~~
3   Usage: $ gendata 3 -p 51 50
3   ~~~~~
3   Modified by:
3   ~~~~~
3   Scott Murray on May 23, 1997 to test NT named pipe support, removed */
3   all lines commented out withsas02 codes.
3   ~~~~~
3   Scott Murray in October 1997 to complete NT named pipe support
3   ~~~~~
3   ~~~~~
3   #include "ctest.h"
3   #include "../include/lval.h"
3   #include <stdlib.h>
3
3   #if defined (NT)
3   /* GSM, for NT named pipe support */
3   #include <windows.h>
3   int PipeOpen(HANDLE *phNamedPipe);
3   int PipeWrite(HANDLE hNamedPipe, char *Buffer, DWORD numBytes);
3
3   int PipeClose(HANDLE hNamedPipe);
3   #endif
3
3   #define COMMIT_CNT    1000
3   #define C_OL_I_ID      1723
3   #define A_OL_I_ID      8191
3
3   EXEC SQL include sqlca ;
3   EXEC SQL include sqlda ;
3
3   /* PROTOTYPES. */
3   void load_dist_tbl( void );
3   void load_cust_tbl( void );
3   void load_hist_tbl( void );
3   void load_nu_ord_tbl( void );
3   void load_ordr_tbl( void );
3   void load_item_tbl( void );
3   /* void load_item1_tbl( void ); */
3   void load_stock_tbl( void );
3   void load_ware_tbl( void );
3
3   EXEC SQL BEGIN DECLARE SECTION;          /* Declare Host Variables */
3   char  errmsg[201];
3   long  ware_num ;
3   long  dist_num ;
3   long  cust_num ;
3   long  ord_num ;
3   long  oline_num ;
3   long  count ;
3   long  ware_count ;
3   long  ware_max ; /* GSM, clustered TPC-C support */
3   long  ware_base ; /* GSM, clustered TPC-C support */
3   double curtime;
3   char  dbname[8] = "dbbench";
3   long  currtmstp;
3   EXEC SQL END DECLARE SECTION;
3
3   int i, j, hit ;
3   int using_db2 = 1;
3   double timestamp1, timestamp2, elapse;
3
3   int load_order_table = 1;
3   int load_order_line_table = 1;
3
3   #if defined (NT)
3   /* GSM, for NT named pipe */
3   int using_npipe = 0;
3   #endif
3
3   ~~~~~
3   /* ----- */
3   /*  main                                     */
3   /* ----- */
3   int main (int argc, char *argv[])
3   {
3       int option;
3       char str[80];
3       char msg[30];
3       char *dbname_ptr;
3
3       ware_count = ware_max = WAREHOUSES;
3       ware_base = 1;
3
3       if(argc == 2)
3       {
3           using_db2 = 0;
3           /* option = atoi(argv[1]); */
3           option = map_option(argv[1]);
3       }
3       else
3       {
3           if(argc <= 5)
3           {
3               if(argc == 3)
3               {
3                   using_db2 = 0;
3                   /* option = atoi(argv[1]); */
3

```

```

        option = map_option(argv[1]);
if(strcmp(argv[2], "-p") == 0)
{
    using_npipe = 1;
}
else
{
    fprintf(stderr, "gendata: Don't understand %s\n", argv[2]);
    exit(-1);
}
}
else /* # of Para = 4 or 5 */
{
    using_db2 = 0;
    /* option = atoi(argv[1]); */
    option = map_option(argv[1]);
if(strcmp(argv[2], "-p") == 0)
{
    using_npipe = 1;
}
else
{
    fprintf(stderr, "gendata: Don't understand %s\n", argv[2]);
    exit(-1);
}
    ware_base = atoi(argv[3]);
    ware_count = atoi(argv[4]);
    ware_max = ware_base + ware_count - 1;
}

}
else /* # of Parm is wrong */
{
    fprintf(stdout, "Pick table to be loaded: \n");
    fprintf(stdout, "-----\n");
    fprintf(stdout, "1. all tables \n\n");
    fprintf(stdout, "2. warehouse table\n");
    fprintf(stdout, "3. district table\n");
/*    fprintf(stdout, "4. item table\n"); */
    fprintf(stdout, "5. stock table\n");
    fprintf(stdout, "6. customer table\n");
    fprintf(stdout, "7. history table\n");
    fprintf(stdout, "8. order and order_line tables\n");
    fprintf(stdout, "9. new_order table\n");
    fprintf(stdout, "88. order table\n");
    fprintf(stdout, "89. order_line table\n");
    fprintf(stdout, "10. item1 table\n");
    fprintf(stdout, "-----\n");
    fprintf(stdout, "\nEnter option: ");
    scanf("%d", &option);
}
}

if(using_db2)
{
    if((dbname_ptr = getenv("TPCC_DBNAME")) != NULL)
    {
        strcpy (dbname, dbname_ptr);
    }

    EXEC SQL CONNECT TO :dbname IN SHARE MODE;

    fprintf(stderr, "\nStart using database %s\n\n", dbname);
    if(sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "CONNECT");
    }
}

switch (option) {
case 1: /* ALL */
    load_ware_tbl();
    load_dist_tbl();
    load_stock_tbl();
    load_cust_tbl();
    load_hist_tbl();
    load_ordr_tbl();
    load_nu_ord_tbl();

    load_item_tbl();
    /* load_item1_tbl(); */
    break;
case 2: /* WAREHOUSE */
    load_ware_tbl();
    break;
case 3: /* DISTRICT */
    load_dist_tbl();
    break;
case 4: /* ITEM */
    load_item_tbl();
    break;
case 5: /* STOCK */
    load_stock_tbl();
    break;
case 6: /* CUSTOMER */
    load_cust_tbl();
    break;
case 7: /* HISTORY */
    load_hist_tbl();
    break;
case 8: /* ORDERS and ORDER_LINE */
    load_ordr_tbl();
    break;
case 9: /* NEW_ORDER */
    load_nu_ord_tbl();
    break;
case 88: /* ORDERS */
    load_order_line_table=0;
    load_ordr_tbl();
    break;
case 89: /* ORDER_LINE */
    load_order_table=0;
    load_ordr_tbl();
    break;
case 10: /* ITEM1 */
    /* load_item1_tbl(); */
    break;
default:
    fprintf(stderr, "Error: invalid option = %d\n", (option));
    break;
}

if (using_db2) {
    EXEC SQL COMMIT WORK;
    if(sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "Commit");
    }
    EXEC SQL CONNECT RESET;
    if(sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "Stop using database");
    }
}

fprintf(stderr, "Finished. \n");
return 0;
}

/*-----*/
/*- map_option allows to use either the table number or the table name-*/
/*- when calling gendata -----*/
/*-----*/
static char *tableNames[] = {"all", "warehouse", "district", "item", "stock",
                             "customer", "history", "orderandneworder", "new_order",
                             "orders", "order_line", "item1"};
static int tableNumbers[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 88, 89, 10};

int map_option(char *opt)
{
    int o = atoi(opt);

    if(o == 0){ /* opt was not a number (or was 0, which is invalid) */
        for(o=0; o < 12; o++)
            if(!strcmp(opt, tableNames[o]))
                break;
        return (o < 12) ? tableNumbers[o] : 0;
    }
}

```

```

    }
    else
        return 0;
}

/*-----*/
/* load item table */
/*-----*/

void load_item_tbl( void )
{
    EXEC SQL BEGIN DECLARE SECTION;          /* Declare Host Variables */
    long item_num;
    long item_im_id;
    char item_name[25];
    long item_price;
    char item_data[51];
    EXEC SQL END DECLARE SECTION;

    long ins_cnt = COMMIT_CNT;

#ifdef NT
    /* GSM!, for NT named pipe */
    HANDLE hNamedPipe;
    char Buffer[1024];
    DWORD numBytes;
#endif
    sqlca.sqlcode = 0;
    initialize_random(13,42);

#ifdef NT
    if(using_npipe)
    {
        if(PipeOpen(&hNamedPipe)!= 0)
        {
            fprintf(stderr, "Pipe open error, exiting\n");
            fflush(stderr);
            exit(-1);
        }
    }
#endif

    fprintf(stderr, "Now generating ITEMS");
    fflush(stderr);
    timestamp1 = current_time();

    for(item_num= 1; item_num<= ITEMS; item_num++)
    {
        /* create image id field */
        item_im_id= rand_integer( 1, 10000 ) ;
        /* create name field */
        create_random_a_string( item_name, 14, 24);
        /* create price field */
        item_price = rand_integer( 100, 10000 ) ;
        /* create ORIGINAL field */
        create_a_string_with_original( item_data, 26, 50, 10.5, &hit );

        if (!using_db2)
        {
#ifdef NT
            if(using_npipe)
            {
                numBytes = sprintf(Buffer,
                    "%d%d|s|s|s|s\n",
                    item_num,
                    item_im_id,
                    item_name,
                    item_price,
                    item_data);

                PipeWrite(hNamedPipe, Buffer, numBytes);
            }
            else
            {
#endif
#endif

                printf ("%d%d|s|s|s|s\n", item_num, item_im_id, item_name, item_price,
                    item_data);
#ifdef NT
            }
        }
    }
#endif

    long ins_cnt = COMMIT_CNT;
}

```

```

        printf ("%d%d|s|s|s|s\n", item_num, item_im_id, item_name, item_price,
            item_data);
#ifdef NT
        }
    }
#endif
    }
    else
    {
        EXEC SQL
            insert into ITEM
            values(:item_num,:item_im_id,:item_name,:item_price,:item_data);
        if(sqlca.sqlcode != 0)
        {
            SQLERR(&sqlca, "INSERT ITEM");
        }
        else
        {
            --ins_cnt;
            if (ins_cnt == 0)
            {
                ins_cnt = COMMIT_CNT;
                fprintf(stderr, ".");
                EXEC SQL commit work ;
                if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
            }
        }
    }
} /* end for... */

#ifdef NT
/* GSM!, for NT named pipes */
if(using_npipe)
{
    PipeClose(hNamedPipe);
}
#endif

fprintf(stderr, "..loaded\n");
fflush(stderr);

if (using_db2)
{
    EXEC SQL commit work ;
    if(sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
}

timestamp2 = current_time();
elapse = timestamp2 - timestamp1;
fprintf(stderr, "Item table loaded in %8.2f seconds.\n\n", elapse);
fflush(stderr);
return;
}

/*-----*/
/* load stock table */
/*-----*/

void load_stock_tbl( void )
{
    EXEC SQL BEGIN DECLARE SECTION;          /* Declare Host Variables */
    long stock_num ;
    long stock_quant ;
    long s_ytd;
    long s_order_cnt, s_remote_cnt;
    char stock_dist_01[25];
    char stock_dist_02[25];
    char stock_dist_03[25];
    char stock_dist_04[25];
    char stock_dist_05[25];
    char stock_dist_06[25];
    char stock_dist_07[25];
    char stock_dist_08[25];
    char stock_dist_09[25];
    char stock_dist_10[25];
    char stock_data[51];
    EXEC SQL END DECLARE SECTION;

    long ins_cnt = COMMIT_CNT;
}

```



```

char Buffer[1024];
DWORD numBytes;
#endif

sqlca.sqlcode = 0;
initialize_random(10,64);

#if defined (NT)
if(using_npipe)
{
    if(PipeOpen(&hNamedPipe) != 0)
    {
        fprintf(stderr, "Pipe open error, exiting\n");
        fflush(stderr);
        exit(-1);
    }
}
#endif

timestamp1 = current_time();
strcpy(tmp_str, "OE");
time((time_t *)&currtmstmp);

for (cust_num = 1; cust_num <= CUSTOMERS_PER_DISTRICT; cust_num++)
{
    /* if (cust_num%50 == 0) */
    fprintf(stderr, "Now generating Customer #%d:\n", cust_num);
    fflush(stderr);

    for (ware_num = ware_base; ware_num <= ware_max; ware_num++)
    {
        for (dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
        {
            if (cust_num <= 1000) /* create last name */
                create_random_last_name( cust_last, cust_num);
            else /* create last name */
                create_random_last_name( cust_last, 0);
            create_random_a_string( cust_first, 8,16 ); /* create first name */
            create_random_a_string( cust_street_1, 10,20 ); /* create street 1 */
            create_random_a_string( cust_street_2, 10,20 ); /* create street 2 */
            create_random_a_string( cust_city, 10,20 ); /* create city */
            create_random_a_string( cust_state, 2,2 ); /* create state */
            create_random_n_string( cust_zip, 4,4 ); /* create zip */
            strcat(cust_zip, "11111");

            /* create phone number */
            create_random_n_string( cust_phone, 16,16 );
            luck_of_the_draw = create_random_float_val_return(0, 100.0 );
            if ( luck_of_the_draw < 10.2 )
                strcpy( cust_credit, "BC" );
            else
                strcpy( cust_credit, "GC" );

            /* create discount rate */
            /*cust_discount = create_random_float_val_return(0.0, 0.5000 ); */
            cust_discount = ((double) rand_integer(0, 5000)) / (double)10000.0;

            /* create customer data */
            create_random_a_string( cust_data1, 250, 250);
            create_random_a_string( cust_data2, 50, 250);

            if (!using_db2)
            {
                #if defined (NT)
                if(using_npipe)
                {
                    numBytes = sprintf(Buffer,
                        "%d|%hd|%hd|"
                        "%s|%s|%s|"
                        "%s|%s|%s|%s|%s|"
                        "%d|%s|%f|"
                        "%f|%hd|%f|%f|%hd|%s|%s\n",
                        cust_num,
                        dist_num,
                        ware_num,
                        cust_first,
                        tmp_str,
                        cust_last,
                        cust_street_1,
                        cust_street_2,
                        cust_city,
                        cust_state,
                        cust_zip,
                        cust_phone,
                        currtmstmp,
                        cust_credit,
                        50000.00,
                        cust_discount,
                        0,
                        -10.0,
                        10.0,
                        1,
                        cust_data1,
                        cust_data2);
                }
                else
                {
                    EXEC SQL
                    insert into CUSTOMER
                    values(:cust_num,:dist_num,:ware_num,:cust_first,
                        :tmp_str,:cust_last,:cust_street_1,
                        :cust_street_2,:cust_city,:cust_state,:cust_zip,
                        :cust_phone,:currtmstmp,:cust_credit,
                        50000.00, :cust_discount, 0, -10.0,
                        10.0, 1, :cust_data1, :cust_data2 );
                }
                if (sqlca.sqlcode != 0)
                {
                    SQLERR(&sqlca, "INSERT CUSTOMER");
                }
                else
                {
                    --ins_cnt;
                    if (ins_cnt == 0)
                    {
                        ins_cnt = COMMIT_CNT;
                        fprintf(stderr, ".");
                        EXEC SQL commit work ;
                        if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
                    }
                }
            }
            #endif
        }
    }
}

```

```

        cust_street_1,
        cust_street_2,
        cust_city,
        cust_state,
        cust_zip,
        cust_phone,
        currtmstmp,
        cust_credit,
        50000.00,
        cust_discount,
        0,
        -10.0,
        10.0,
        1,
        cust_data1,
        cust_data2);

    PipeWrite(hNamedPipe, Buffer, numBytes);
}
else
{
    #endif
    printf("%d|%hd|%hd|"
        "%s|%s|%s|"
        "%s|%s|%s|%s|%s|"
        "%d|%s|%f|"
        "%f|%hd|%f|%f|%hd|%s|%s\n",
        cust_num,
        dist_num,
        ware_num,
        cust_first,
        tmp_str,
        cust_last,
        cust_street_1,
        cust_street_2,
        cust_city,
        cust_state,
        cust_zip,
        cust_phone,
        currtmstmp,
        cust_credit,
        50000.00,
        cust_discount,
        0,
        -10.0,
        10.0,
        1,
        cust_data1,
        cust_data2);

    #if defined (NT)
    }
    #endif
}
else
{
    EXEC SQL
    insert into CUSTOMER
    values(:cust_num,:dist_num,:ware_num,:cust_first,
        :tmp_str,:cust_last,:cust_street_1,
        :cust_street_2,:cust_city,:cust_state,:cust_zip,
        :cust_phone,:currtmstmp,:cust_credit,
        50000.00, :cust_discount, 0, -10.0,
        10.0, 1, :cust_data1, :cust_data2 );
    if (sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "INSERT CUSTOMER");
    }
    else
    {
        --ins_cnt;
        if (ins_cnt == 0)
        {
            ins_cnt = COMMIT_CNT;
            fprintf(stderr, ".");
            EXEC SQL commit work ;
            if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
        }
    }
}

```

```

    }
    } /* end for district... */
    } /* end for warehouse... */
} /* end for customer... */

#if defined (NT)
/* GSM, for NT named pipes */
if(using_npipe)
{
    PipeClose(hNamedPipe);
}
#endif

if (using_db2)
{
    EXEC SQL commit work;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
}
timestamp2 = current_time();
elapsed = timestamp2 - timestamp1;
fprintf(stderr, "Customer table loaded in %8.2f seconds.\n\n", elapsed);
return;
}

/*-----*/
/* load hist table */
/*-----*/
void load_hist_tbl( void )
{
    EXEC SQL BEGIN DECLARE SECTION;
    char hist_data[25];
    EXEC SQL END DECLARE SECTION;

    long ins_cnt = COMMIT_CNT;
    #if defined (NT)
    /* GSM!, for NT named pipe */
    HANDLE hNamedPipe;
    char Buffer[1024];
    DWORD numBytes;
    #endif

    sqlca.sqlcode = 0;
    initialize_random(15,63);

    #if defined (NT)
    if(using_npipe)
    {
        if(PipeOpen(&hNamedPipe) != 0)
        {
            fprintf(stderr, "Pipe open error, exiting\n");
            fflush(stderr);
            exit(-1);
        }
    }
    #endif

    timestamp1 = current_time();
    time((time_t *)&currtmstp);

    for (ware_num = ware_base; ware_num <= ware_max; ware_num++)
    {
        fprintf(stderr, "Now generating History for Warehouse#%d:\n", ware_num);
        for (dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
        {
            /*fprintf(stderr, "\tDistrict #%d ", dist_num);*/
            for (cust_num = 1; cust_num <= CUSTOMERS_PER_DISTRICT; cust_num++)
            {
                /* create history data */
                create_random_a_string( hist_data, 12,24 );

                if (!using_db2)
                {
                    #if defined (NT)
                    if(using_npipe)
                    {
                        numBytes = sprintf(Buffer,
                            "%d|%hd|%hd|%hd|%hd|%d|%d|%s\n",
                            cust_num,

```

```

                            dist_num,
                            ware_num,
                            dist_num,
                            ware_num,
                            currtmstp,
                            1000,
                            hist_data);

                        PipeWrite(hNamedPipe, Buffer, numBytes);
                    }
                }
            }
        }
    }
    #endif

    printf("%d|%hd|%hd|%hd|%hd|%d|%d|%s\n",
        cust_num,
        dist_num,
        ware_num,
        dist_num,
        ware_num,
        currtmstp,
        1000,
        hist_data);

    #if defined (NT)
    }
    #endif
}
else
{
    EXEC SQL
        insert into HISTORY
        values(:cust_num, :dist_num, :ware_num, :dist_num,
            :ware_num, :currtmstp, 1000,
            :hist_data );
    if (sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "");
    }
    else
    {
        --ins_cnt;
        if (ins_cnt == 0)
        {
            ins_cnt = COMMIT_CNT;
            fprintf(stderr, ".");
            EXEC SQL commit work ;
            if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
        }
    }
}
} /* end for customer... */
} /* end for warehouse... */

#if defined (NT)
/* GSM, for NT named pipes */
if(using_npipe)
{
    PipeClose(hNamedPipe);
}
#endif

if (using_db2)
{
    EXEC SQL commit work;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "commit work");
}
timestamp2 = current_time();
elapsed = timestamp2 - timestamp1;
fprintf(stderr, "History table loaded in %8.2f seconds.\n\n", elapsed);
fflush(stderr);

return;
}

/*-----*/
/* load nu_ord table */
/*-----*/

```

```

void load_nu_ord_tbl( void )
{
    EXEC SQL BEGIN DECLARE SECTION;
    long nu_ord_id;
    EXEC SQL END DECLARE SECTION;

    int nu_ord_hi;
    long ins_cnt = COMMIT_CNT;
#ifdef (NT)
    /* GSM!, for NT named pipe */
    HANDLE hNamedPipe;
    char Buffer[1024];
    DWORD numBytes;
#endif

    /* compute maximum and minimum
       order numbers for this
       district */
    nu_ord_hi = CUSTOMERS_PER_DISTRICT - NU_ORDERS_PER_DISTRICT + 1;
    if (nu_ord_hi < 0) {
        nu_ord_hi = CUSTOMERS_PER_DISTRICT - (CUSTOMERS_PER_DISTRICT / 3) +
1;
        fprintf(stderr, "\n****WARNING **** NU_ORDERS_PER_DISTRICT is >
CUSTOMERS_PER_DISTRICT\n");
        fprintf(stderr, "        Check the values in file lval.h\n");
        fprintf(stderr, "        Loading New-Order with 1/3 of
CUSTOMERS_PER_DISTRICT\n");
    }
    sqlca.sqlcode = 0;
    initialize_random(99,37);

#ifdef (NT)
    if (using_npipe)
    {
        if (PipeOpen(&hNamedPipe) != 0)
        {
            fprintf(stderr, "Pipe open error, exiting\n");
            fflush(stderr);
            exit(-1);
        }
    }
#endif

    timestamp1 = current_time();

    for (ware_num = ware_base; ware_num <= ware_max; ware_num++)
    {
        fprintf(stderr, "Now generating New-Order for Warehouse #%d:\n", ware_num);
        for (dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
        {
            /* fprintf(stderr, "\tDistrict #%d ", dist_num); */
            for (nu_ord_id = nu_ord_hi;
                nu_ord_id <= CUSTOMERS_PER_DISTRICT;
                nu_ord_id++)
            {
                if (!using_db2)
                {
#ifdef (NT)
                    if (using_npipe)
                    {
                        numBytes = sprintf(Buffer,
                            "%d|%hd|%hd\n",
                            nu_ord_id,
                            dist_num,
                            ware_num);

                        PipeWrite(hNamedPipe, Buffer, numBytes);
                    }
                    else
                    {
                        printf ("%d|%hd|%hd\n", nu_ord_id, dist_num, ware_num);
                    }
                }
                else
                {

```

```

EXEC SQL
    insert into NEW_ORDER
    values(:nu_ord_id,:dist_num,:ware_num) ;
    if (sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "INSERT NEW_ORDER");
    }
    else
    {
        --ins_cnt;
        if (ins_cnt == 0)
        {
            ins_cnt = COMMIT_CNT;
            fprintf(stderr, "\n");
            EXEC SQL commit work ;
            if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
        }
    }
}
/*      fprintf(stderr, "..loaded\n"); */
}

#ifdef (NT)
/* GSM, for NT named pipes */
if (using_npipe)
{
    PipeClose(hNamedPipe);
}
#endif

if (using_db2)
{
    EXEC SQL commit work ;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
}
timestamp2 = current_time();
elapsed = timestamp2 - timestamp1;
fprintf(stderr, "New-Order table loaded in %8.2f seconds.\n\n", elapsed);
fflush(stderr);

return;
}

/*-----*/
/*  load order and order_line tables  */
/*-----*/

void load_ordr_tbl( void )
{
    FILE *orders_fp;
    EXEC SQL BEGIN DECLARE SECTION;
    long ordr_carrier_id;
    long ordr_cnt;
    long ordr_ol_cnt;
    long oline_ol_num;
    long oline_ol_cnt;
    long oline_item_num;
    long ordr_all_local;

    long oline_amount;
    char oline_dist_info[25];
    long null_tmstamp = 0;
    EXEC SQL END DECLARE SECTION;

    char null_ts[] = "0001-01-01-00.00.01.000000";
    long ins_cnt = COMMIT_CNT;
#ifdef (NT)
    /* GSM!, for NT named pipe */
    HANDLE hNamedPipe;
    char Buffer[1024];
    DWORD numBytes;
#endif

    oline_dist_info[24] = '\0';

```

```

initialize_random(42,13);

if (!using_db2 && load_order_table && load_order_line_table)
{
    if ((orders_fp = fopen("ASCII_ORDERS_TABLE", "w")) == NULL)
    {
        fprintf(stderr, "Error opening ASCII_ORDERS_TABLE\n");
        return;
    }
}

#ifdef NT
if (using_npipe)
{
    if (PipeOpen(&hNamedPipe) != 0)
    {
        fprintf(stderr, "Pipe open error, exiting\n");
        fflush(stderr);
        exit(-1);
    }
}
#endif

timestamp1 = current_time();
time((time_t *)&currtmstamp);

for (ware_num = ware_base; ware_num <= ware_max; ware_num++)
{
    fprintf(stderr, "Now generating ");
    if (load_order_table && load_order_line_table)
        fprintf(stderr, "Order & Order-Line ");
    else if (load_order_table)
        fprintf(stderr, "Order ");
    else
        fprintf(stderr, "Order-Line");
    fprintf(stderr, "table(s) for Warehouse %d:\n", ware_num);

    for (dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
    {
        /*fprintf(stderr, "\tDistrict %d ", dist_num);*/
        seed_1_3000();
        for (ord_num = 1; ord_num <= CUSTOMERS_PER_DISTRICT; ord_num++)
        {
            if (ord_num < 2101)
                ord_carrier_id = rand_integer(1, 10);
            else
                ord_carrier_id = 0;

            cust_num = random_1_3000();
            ord_ol_cnt = rand_integer(MIN_OL_PER_ORDER, MAX_OL_PER_ORDER);
            ord_all_local = 1;
            if (load_order_table)
            {
                if (!using_db2)
                {
                    if (load_order_line_table)
                    {
                        fprintf(orders_fp,
                            "%d|%d|%d|%d|%d|%d|%d|\n",
                            ord_num,
                            cust_num,
                            dist_num,
                            ware_num,
                            currtmstamp,
                            ord_carrier_id,
                            ord_ol_cnt,
                            1);
                    }
                }
                else
                {
                    #if defined (NT)
                    if (using_npipe)
                    {
                        numBytes = sprintf(Buffer,
                            "%d|%d|%d|%d|%d|%d|%d|\n",
                            ord_num,
                            cust_num,
                            dist_num,

```

```

                            ware_num,
                            currtmstamp,
                            ord_carrier_id,
                            ord_ol_cnt,
                            1);

                        PipeWrite(hNamedPipe, Buffer, numBytes);
                    }
                }
            }
        }
    }
}
else
{
    #endif
    printf("%d|%d|%d|%d|%d|%d|%d|\n",
        ord_num,
        cust_num,
        dist_num,
        ware_num,
        currtmstamp,
        ord_carrier_id,
        ord_ol_cnt,
        1);
    #if defined (NT)
    }
    #endif
}
else
{
    EXEC SQL insert into ORDERS
        values( :ord_num, :cust_num, :dist_num, :ware_num,
               :currtmstamp, :ord_carrier_id,
               :ord_ol_cnt, 1 );
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "16");
    --ins_cnt;
    if (ins_cnt == 0)
    {
        ins_cnt = COMMIT_CNT;
        fprintf(stderr, ".");
        EXEC SQL commit work;
        if (sqlca.sqlcode != 0) SQLERR(&sqlca, "commit work");
    }
}
}

sqlca.sqlcode = 0;
for (oline_ol_num = 1; oline_ol_num <= ord_ol_cnt; oline_ol_num++)
{
    oline_item_num = rand_integer(1, ITEMS);
    create_random_a_string(oline_dist_info, 24, 24);
    oline_amount = rand_integer(001, 999999);
    if (load_order_line_table)
    {
        if (ord_num < 2101)
        {
            oline_amount = 0;
            if (!using_db2)
            {
                #if defined (NT)
                if (using_npipe)
                {
                    numBytes = sprintf(Buffer,
                        "%d|%hd|%hd|%hd|%d|%hd|%d|%s|\n",
                        ord_num,
                        dist_num,
                        ware_num,
                        oline_ol_num,
                        oline_item_num,
                        ware_num,
                        currtmstamp,
                        5,
                        oline_amount,
                        oline_dist_info);

                    PipeWrite(hNamedPipe, Buffer, numBytes);
                }
                else
                {
                    #endif
                    printf("%d|%hd|%hd|%hd|%d|%hd|%d|%s|\n",

```

```

ord_num,
dist_num,
ware_num,
oline_ol_num,
oline_item_num,
ware_num,
currtmstp,
5,
oline_amount,
oline_dist_info);
#endif
}
else
{
EXEC SQL
insert into ORDER_LINE
values( :ord_num,:dist_num,:ware_num,:oline_ol_num,
:oline_item_num,:ware_num,
:currtmstp,5,:oline_amount,
:oline_dist_info);
if (sqlca.sqlcode != 0) SQLERR(&sqlca, "77");
}
else
{
if (!using_db2)
{
#endif
if(using_npipes)
{
numBytes = sprintf(Buffer,
"%d%d%d%d%d%d%d%d%d\n",
ord_num,
dist_num,
ware_num,
oline_ol_num,
oline_item_num,
ware_num,
null_tmstp,
5,
oline_amount,
oline_dist_info);

PipeWrite(hNamedPipe, Buffer, numBytes);
}
else
{
#endif
printf ("%d%d%d%d%d%d%d%d%d\n",
ord_num,
dist_num,
ware_num,
oline_ol_num,
oline_item_num,
ware_num,
null_tmstp,
5,
oline_amount,
oline_dist_info);
#endif
}
else
{
EXEC SQL
insert into ORDER_LINE
values( :ord_num,:dist_num,:ware_num,:oline_ol_num,
:oline_item_num,:ware_num,
:null_tmstp,5,:oline_amount,
:oline_dist_info);
if (sqlca.sqlcode != 0) SQLERR(&sqlca, "78");
}
}
if (using_db2)

```

```

{
--ins_cnt;
if (ins_cnt == 0)
{
ins_cnt = COMMIT_CNT;
fprintf(stderr, ".");
EXEC SQL commit work;
if (sqlca.sqlcode != 0) SQLERR(&sqlca, "commit work");
}
}
}
}
}
fprintf(stderr, "..loaded\n");
fflush(stderr);
}

#endif
/* GSM, for NT named pipes */
if(using_npipes)
{
PipeClose(hNamedPipe);
}
#endif

if (using_db2)
{
EXEC SQL commit work ;
if (sqlca.sqlcode != 0) SQLERR(&sqlca, "commit work");
}
if (!using_db2 && load_order_table && load_order_line_table) {
fclose(orders_fp);
}
timestamp2 = current_time();
elapsed = timestamp2 - timestamp1;
if (load_order_table && load_order_line_table)
fprintf(stderr, "Order & Order-Line ");
else if (load_order_table)
fprintf(stderr, "Order ");
else
fprintf(stderr, "Order-Line ");
fprintf(stderr, "table(s) loaded in %8.2f seconds.\n\n", elapsed);
fflush(stderr);

return;
}

#endif
/* Function to create a named pipe */
int PipeOpen(HANDLE *phNamedPipe)
{
char *PipeName = "\\.\pipe\\loadpipe";
DWORD iTimeOut = 1000;
int error = 0;

/* GSM, create named pipe on NT */
*phNamedPipe = CreateNamedPipe(PipeName,
PIPE_ACCESS_OUTBOUND,
PIPE_TYPE_BYTE | PIPE_READMODE_BYTE | PIPE_WAIT,
1,
0,
0,
iTimeOut,
NULL);

if((*phNamedPipe) == INVALID_HANDLE_VALUE)
{
printf("Pipe create failed with error %d\n", GetLastError());
fflush(stdout);
error = 1;
}
else
{
if(ConnectNamedPipe(*phNamedPipe, NULL))
{

```

```

    printf("Pipe connect is OK\n");
    fflush(stdout);
}
else
{
    printf("Pipe connect failed\n");
    fflush(stdout);
    error = 1;
}
}
return error;
}

/* Function to write specified number of bytes to the pipe*/
int PipeWrite(HANDLE hNamedPipe, char *Buffer, DWORD numBytes)
{
    DWORD numBytesWritten;
    int rc;

    rc = WriteFile(hNamedPipe,
        Buffer,
        numBytes,
        &numBytesWritten,
        NULL);

    if(!rc)
    {
        fprintf(stderr, "WriteFile problem with error %d\n", GetLastError());
        fflush(stderr);
    }
    else
    {
        if(numBytes != numBytesWritten)
        {
            rc = -1;
            fprintf(stderr, "Incorrect number of bytes written to pipe\n");
            fflush(stderr);
        }
    }
    return rc;
}

/* Functio to close the pipe */
int PipeClose(HANDLE hNamedPipe)
{
    int rc;

    /* Flush all output that is still in the pipe. */
    /* This forces us to wait until the client has read everything that we */
    /* sent. */
    rc = FlushFileBuffers(hNamedPipe);
    if(rc == TRUE)
    {
        fprintf(stderr, "Pipe flushed successfully\n");
        fflush(stderr);
    }
    else
    {
        fprintf(stderr, "Pipe flush error - %d\n", GetLastError());
        fflush(stderr);
    }

    /* Disconnect named pipe from client*/
    rc = DisconnectNamedPipe(hNamedPipe);
    if(rc == TRUE)
    {
        fprintf(stderr, "Pipe disconnected successfully\n");
        fflush(stderr);
    }
    else
    {
        fprintf(stderr, "Pipe disconnect error - %d\n", GetLastError());
        fflush(stderr);
    }

    /* Close named pipe, discards it */

```

```

    CloseHandle(hNamedPipe);

```

```

    return rc;
}

```

```

#endif

```

gendata1.sqc

```

/*****
/* file: gendata1.sqc */
/*
/* TPC-C benchmark of DB2/6000. This program creates the */
/* randomly generated data and loads the data into the tables. */
/*
/* Usage: $ gendata 3 -p 51 50 */
/*
/* Modified by: */
/*
/* Scott Murray on May 23, 1997 to test NT named pipe support, removed */
/* all lines commented out with sas02 codes. */
/*
/* Scott Murray in October 1997 to complete NT named pipe support */
/*
*****/

#include "ctest.h"
#include "../include/lval.h"
#include <stdlib.h>
#include <sqludf.h>
#include <sqlutil.h>
#ifdef NT
/* GSM, for NT named pipe support */
#include <windows.h>
int PipeOpen(HANDLE *phNamedPipe);
int PipeWrite(HANDLE hNamedPipe, char *Buffer, DWORD numBytes);
int PipeClose(HANDLE hNamedPipe);
#endif

#define COMMIT_CNT 1000
#define C_OL_I_ID 1723
#define A_OL_I_ID 8191

EXEC SQL include sqlca ;
EXEC SQL include sqllda ;

/* PROTOTYPES. */
void load_dist_tbl( void );
void load_cust_tbl( void );
void load_hist_tbl( void );
void load_nu_ord_tbl( void );
void load_ordr_tbl( void );
void load_item_tbl( void );
/* void load_item1_tbl( void ); */
void load_stock_tbl( void );
void load_ware_tbl( void );
void computeLocalWarehouses(void);
void connect_to_TM(char*);
void disconnect_from_TM(void);
EXEC SQL BEGIN DECLARE SECTION; /* Declare Host Variables */
char errmsg[201];
long ware_num ;
long dist_num ;
long cust_num ;
long ord_num ;
long oline_num ;
long count ;
long ware_count ;
long ware_max ; /* GSM, clustered TPC-C support */
long ware_base ; /* GSM, clustered TPC-C support */
double currtime;
//char dbname[8] = "dbbench";
char dbname[8] = "TPCC";
long currtmstmp;
short this_node;
EXEC SQL END DECLARE SECTION;

```

```

int i, j, hit ;
int using_db2 = 1;
double timestamp1, timestamp2, elapse;

int load_order_table = 1;
int load_order_line_table = 1;

#if defined (NT)
/* GSM, for NT named pipe */
int using_npipe = 0;
#endif
// SQL_PDB_NODE_TYPE warehouseMap[WAREHOUSES];
long warehouseMap[WAREHOUSES];
static long maxLocalWarehouse;
/*-----*/
/*      main                                */
/*-----*/
int main (int argc, char *argv[])
{
    int option;
    char str[80];
    char msg[30];
    char *dbname_ptr;

    ware_count = ware_max = WAREHOUSES;
    ware_base = 0;
    computeLocalWarehouses();
    printf("\n");
    if(argc == 2)
    {
        using_db2 = 0;
        /* option = atoi(argv[1]); */
        option = map_option(argv[1]);
    }
    else
    {
        if(argc <= 5)
        {
            if(argc == 3)
            {
                using_db2 = 0;
                /* option = atoi(argv[1]); */
                option = map_option(argv[1]);
                if(strcmp(argv[2], "-p") == 0)
                {
                    using_npipe = 1;
                }
                else
                {
                    fprintf(stderr, "gendata: Don't understand %s\n", argv[2]);
                    exit(-1);
                }
            }
            else /* # of Para = 4 or 5 */
            {
                using_db2 = 0;
                /* option = atoi(argv[1]); */
                option = map_option(argv[1]);
                if(strcmp(argv[2], "-p") == 0)
                {
                    using_npipe = 1;
                }
                else
                {
                    fprintf(stderr, "gendata: Don't understand %s\n", argv[2]);
                    exit(-1);
                }
                ware_base = atoi(argv[3]);
                ware_count = atoi(argv[4]);
                ware_max = ware_base + ware_count - 1;
            }
        }
        else /* # of Parm is wrong */
        {
            fprintf(stdout, "Pick table to be loaded: \n");
            fprintf(stdout, "-----\n");

```

```

        fprintf(stdout, "1. all tables \n\n");
        fprintf(stdout, "2. warehouse table\n");
        fprintf(stdout, "3. district table\n");
        /* fprintf(stdout, "4. item table\n"); */
        fprintf(stdout, "5. stock table\n");
        fprintf(stdout, "6. customer table\n");
        fprintf(stdout, "7. history table\n");
        fprintf(stdout, "8. order and order_line tables\n");
        fprintf(stdout, "9. new_order table\n");
        fprintf(stdout, "88. order table\n");
        fprintf(stdout, "89. order_line table\n");
        fprintf(stdout, "10. item1 table\n");
        fprintf(stdout, "-----\n");
        fprintf(stdout, "\nEnter option: ");
        scanf("%d", &option);
    }
}
if(using_db2)
{
    if((dbname_ptr = getenv("TPCC_DBNAME")) != NULL)
    {
        strcpy (dbname, dbname_ptr);
    }

    EXEC SQL CONNECT TO :dbname IN SHARE MODE;

    fprintf(stderr, "\nStart using database %s\n\n", dbname);
    if(sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "CONNECT");
    }
}

switch (option) {
case 1: /* ALL */
    load_ware_tbl();
    load_dist_tbl();
    load_stock_tbl();
    load_cust_tbl();
    load_hist_tbl();
    load_ordr_tbl();
    load_nu_ord_tbl();
    load_item_tbl();
    /* load_item1_tbl(); */
    break;
case 2: /* WAREHOUSE */
    load_ware_tbl();
    break;
case 3: /* DISTRICT */
    load_dist_tbl();
    break;
case 4: /* ITEM */
    load_item_tbl();
    break;
case 5: /* STOCK */
    load_stock_tbl();
    break;
case 6: /* CUSTOMER */
    load_cust_tbl();
    break;
case 7: /* HISTORY */
    load_hist_tbl();
    break;
case 8: /* ORDERS and ORDER_LINE */
    load_ordr_tbl();
    break;
case 9: /* NEW_ORDER */
    load_nu_ord_tbl();
    break;
case 88: /* ORDERS */
    load_order_line_table=0;
    load_ordr_tbl();
    break;
case 89: /* ORDER_LINE */
    load_order_table=0;
    load_ordr_tbl();
    break;
case 10: /* ITEM1 */

```

```

/* load_item1_tbl(); */
break;
default:
    fprintf(stderr, "Error: invalid option = %d\n", (option));
    break;
}

if (using_db2) {
    EXEC SQL COMMIT WORK;
    if (sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "Commit");
    }
    EXEC SQL CONNECT RESET;
    if (sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "Stop using database");
    }
}
fprintf(stderr, "Finished. \n");
return 0;
}

/*-----*/
/*- map_option allows to use either the table number or the table name-*/
/*- when calling gendata -----*/
/*-----*/
static char *tableNames[] = {"all", "warehouse", "district", "item", "stock",
                             "customer", "history", "orderandneworder", "new_order",
                             "orders", "order_line", "item1"};
static int tableNumbers[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 88, 89, 10};

int map_option(char *opt)
{
    int o = atoi(opt);

    if (o == 0) { /* opt was not a number (or was 0, which is invalid) */
        for (o = 0; o < 12; o++)
            if (!strcmp(opt, tableNames[o]))
                break;
        return (o < 12) ? tableNumbers[o] : 0;
    }
    else
        return o;
}

/*-----*/
/*- load item table -----*/
/*-----*/

void load_item_tbl(void)
{
    EXEC SQL BEGIN DECLARE SECTION;          /* Declare Host Variables */
    long item_num;
    long item_im_id;
    char item_name[25];
    long item_price;
    char item_data[51];
    EXEC SQL END DECLARE SECTION;

    long ins_cnt = COMMIT_CNT;

#ifdef NT
    /* GSM!, for NT named pipe */
    HANDLE hNamedPipe;
    char Buffer[1024];
    DWORD numBytes;
#endif
    sqlca.sqlcode = 0;
    initialize_random(13, 42);

#ifdef NT
    if (using_npipe)
    {
        if (PipeOpen(&hNamedPipe) != 0)
        {

```

```

            fprintf(stderr, "Pipe open error, exiting\n");
            fflush(stderr);
            exit(-1);
        }
    }
#endif

    fprintf(stderr, "Now generating ITEMS");
    fflush(stderr);
    timestamp1 = current_time();

    for (item_num = 1; item_num <= ITEMS; item_num++)
    {
        /* create image id field */
        item_im_id = rand_integer(1, 10000);
        /* create name field */
        create_random_a_string(item_name, 14, 24);
        /* create price field */
        item_price = rand_integer(100, 10000);
        /* create ORIGINAL field */
        create_a_string_with_original(item_data, 26, 50, 10.5, &hit);

        if (!using_db2)
        {
#ifdef NT
            if (using_npipe)
            {
                numBytes = sprintf(Buffer,
                                    "%d%d%s%d%s\n",
                                    item_num,
                                    item_im_id,
                                    item_name,
                                    item_price,
                                    item_data);

                PipeWrite(hNamedPipe, Buffer, numBytes);
            }
            else
            {
#endif
                printf("%d%d%s%d%s\n", item_num, item_im_id, item_name, item_price,
                        item_data);
#ifdef NT
            }
#endif
            else
            {
                /* EXEC SQL
                // insert into ITEM
                // values(:item_num,:item_im_id,:item_name,:item_price,:item_data);
                if (sqlca.sqlcode != 0)
                {
                    SQLERR(&sqlca, "INSERT ITEM");
                }
                else
                {
                    --ins_cnt;
                    if (ins_cnt == 0)
                    {
                        ins_cnt = COMMIT_CNT;
                        fprintf(stderr, ".");
                        EXEC SQL commit work;
                        if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
                    }
                }
            }
        } /* end for... */

#ifdef NT
        /* GSM, for NT named pipes */
        if (using_npipe)
        {
            PipeClose(hNamedPipe);
        }
    }
#endif
    fprintf(stderr, "..loaded\n");

```



```

}
timestamp2 = current_time();
elapsed = timestamp2 - timestamp1;
fprintf(stderr, "District table loaded in %8.2f seconds.\n\n", elapsed);
fflush(stderr);

return;
}

/*-----*/
/* load customer table */
/*-----*/
void load_cust_tbl( void )
{
    EXEC SQL BEGIN DECLARE SECTION;
    char cust_last[17];
    char cust_middle[3];
    char cust_first[17];
    char cust_street_1[21];
    char cust_street_2[21];
    char cust_city[21];
    char cust_state[3];
    char cust_zip[10];
    char cust_phone[17];
    char cust_credit[3];
    char cust_data1[251];
    char cust_data2[251];

    char tmp_str[3];

    double cust_discount;
    double luck_of_the_draw;
    EXEC SQL END DECLARE SECTION;

    int ph1, ph2, ph3, ph4;
    long ins_cnt = COMMIT_CNT;
    #if defined (NT)
        /* GSM! for NT named pipe */
        HANDLE hNamedPipe;
        char Buffer[1024];
        DWORD numBytes;
    #endif

    sqlca.sqlcode = 0;
    initialize_random(10,64);

    #if defined (NT)
        if(using_npipe)
        {
            if(PipeOpen(&hNamedPipe) != 0)
            {
                fprintf(stderr, "Pipe open error, exiting\n");
                fflush(stderr);
                exit(-1);
            }
        }
    #endif

    timestamp1 = current_time();
    strcpy(tmp_str, "OE");
    time((time_t *)&currmtstmp);

    for (cust_num = 1; cust_num <= CUSTOMERS_PER_DISTRICT; cust_num++)
    {
        /* if (cust_num%50 == 0) */
        fprintf(stderr, "Now generating Customer #%-d:\n", cust_num);
        fflush(stderr);

        for (ware_num = ware_base; ware_num < maxLocalWarehouse; ware_num++)
        {
            for (dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
            {
                if (cust_num <= 1000) /* create last name */
                    create_random_last_name( cust_last, cust_num);
                else /* create last name */
                    create_random_last_name( cust_last, 0);
                create_random_a_string( cust_first, 8, 16 ); /* create first name */
                create_random_a_string( cust_street_1, 10, 20 ); /* create street 1 */

```

```

                create_random_a_string( cust_street_2, 10, 20 ); /* create street 2 */
                create_random_a_string( cust_city, 10, 20 ); /* create city */
                create_random_a_string( cust_state, 2, 2 ); /* create state */
                create_random_n_string( cust_zip, 4, 4 ); /* create zip */
                strcat(cust_zip, "11111");

                /* create phone number */
                create_random_n_string( cust_phone, 16, 16 );
                luck_of_the_draw = create_random_float_val_return(0, 100.0 );
                if ( luck_of_the_draw < 10.2 )
                    strcpy( cust_credit, "BC" );
                else
                    strcpy( cust_credit, "GC" );

                /* create discount rate */
                /*cust_discount = create_random_float_val_return(0.0, 0.5000 ); */
                cust_discount = ((double) rand_integer(0, 5000)) / (double)10000.0;

                /* create customer data */
                create_random_a_string( cust_data1, 250, 250);
                create_random_a_string( cust_data2, 50, 250);

                if (!using_db2)
                {
                    #if defined (NT)
                        if(using_npipe)
                        {
                            numBytes = sprintf(Buffer,
                                "%d%hd%ld"
                                "%s%s%s"
                                "%s%s%s%s%s%s"
                                "%d%s%f"
                                "%f%hd%f%f%hd%s%s\n",
                                cust_num,
                                dist_num,
                                warehouseMap[ware_num],
                                cust_first,
                                tmp_str,
                                cust_last,
                                cust_street_1,
                                cust_street_2,
                                cust_city,
                                cust_state,
                                cust_zip,
                                cust_phone,
                                currmtstmp,
                                cust_credit,
                                50000.00,
                                cust_discount,
                                0,
                                -10.0,
                                10.0,
                                1,
                                cust_data1,
                                cust_data2);

                            PipeWrite(hNamedPipe, Buffer, numBytes);
                        } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
                        else
                        {
                            #endif
                            printf("%d%hd%ld"
                                "%s%s%s"
                                "%s%s%s%s%s%s"
                                "%d%s%f"
                                "%f%hd%f%f%hd%s%s\n",
                                cust_num,
                                dist_num,
                                warehouseMap[ware_num],
                                cust_first,
                                tmp_str,
                                cust_last,
                                cust_street_1,
                                cust_street_2,
                                cust_city,
                                cust_state,
                                cust_zip,
                                cust_phone,

```

```

        currtmstmp,
        cust_credit,
        50000.00,
        cust_discount,
        0,
        -10.0,
        10.0,
        1,
        cust_data1,
        cust_data2);
#endif
    } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
#endif
}
else
{
    EXEC SQL
    insert into CUSTOMER
    values(:cust_num,:dist_num,:ware_num,:cust_first,
        :tmp_str,:cust_last,:cust_street_1,
        :cust_street_2,:cust_city,:cust_state,:cust_zip,
        :cust_phone,:currtmstmp,:cust_credit,
        50000.00,:cust_discount,0,-10.0,
        10.0,1,:cust_data1,:cust_data2 );
    if (sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "INSERT CUSTOMER");
    }
    else
    {
        --ins_cnt;
        if (ins_cnt == 0)
        {
            ins_cnt = COMMIT_CNT;
            fprintf(stderr, ".");
            EXEC SQL commit work ;
            if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
        }
    }
} /* end for district... */
} /* end for warehouse... */
} /* end for customer... */

#if defined (NT)
/* GSM, for NT named pipes */
if(using_npipe)
{
    PipeClose(hNamedPipe);
}
#endif

if (using_db2)
{
    EXEC SQL commit work;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
}
timestamp2 = current_time();
elapsed = timestamp2 - timestamp1;
fprintf(stderr, "Customer table loaded in %8.2f seconds.\n\n", elapsed);
return;
}

/*-----*/
/* load hist table */
/*-----*/
void load_hist_tbl( void )
{
    EXEC SQL BEGIN DECLARE SECTION;
    char hist_data[25];
    EXEC SQL END DECLARE SECTION;

    long ins_cnt = COMMIT_CNT;
    #if defined (NT)
    /* GSM!, for NT named pipe */
    HANDLE hNamedPipe;
    char Buffer[1024];
    DWORD numBytes;

```

```

#endif

    sqlca.sqlcode = 0;
    initialize_random(15,63);

#if defined (NT)
    if(using_npipe)
    {
        if(PipeOpen(&hNamedPipe) != 0)
        {
            fprintf(stderr, "Pipe open error, exiting\n");
            fflush(stderr);
            exit(-1);
        }
    }
#endif

    timestamp1 = current_time();
    time((time_t *)&currtmstmp);

    for (ware_num = ware_base; ware_num < maxLocalWarehouse; ware_num++)
    {
        fprintf(stderr, "Now generating History for Warehouse #%d:\n", ware_num);
        for (dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
        {
            /*fprintf(stderr, "\tDistrict #%d ", dist_num);*/
            for (cust_num = 1; cust_num <= CUSTOMERS_PER_DISTRICT; cust_num++)
            {
                /* create history data */
                create_random_a_string( hist_data, 12,24 );

                if (!using_db2)
                {
                    #if defined (NT)
                    if(using_npipe)
                    {
                        numBytes = sprintf(Buffer,
                            "%d|%hd|%ld|%hd|%ld|%d|%d|\n",
                            cust_num,
                            dist_num,
                            warehouseMap[ware_num],
                            dist_num,
                            warehouseMap[ware_num],
                            currtmstmp,
                            1000,
                            hist_data);

                        PipeWrite(hNamedPipe, Buffer, numBytes);
                    } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
                    else
                    {
                        #endif

                        printf("%d|%hd|%ld|%hd|%ld|%d|%d|\n",
                            cust_num,
                            dist_num,
                            warehouseMap[ware_num],
                            dist_num,
                            warehouseMap[ware_num],
                            currtmstmp,
                            1000,
                            hist_data);

                        #if defined (NT)
                    } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
                    #endif
                }
            }
        }
    }

    EXEC SQL
    insert into HISTORY
    values(:cust_num,:dist_num,:ware_num,:dist_num,
        :ware_num,:currtmstmp,1000,
        :hist_data );
    if (sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "");
    }
    else
    {

```

```

--ins_cnt;
if (ins_cnt == 0)
{
    ins_cnt = COMMIT_CNT;
    fprintf(stderr, ".");
    EXEC SQL commit work ;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
}
}
}
} /* end for customer... */
} /* end for warehouse... */

```

```

#if defined (NT)
/* GSM, for NT named pipes */
if(using_npipe)
{
    PipeClose(hNamedPipe);
}
#endif

```

```

if (using_db2)
{
    EXEC SQL commit work;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "commit work");
}
timestamp2 = current_time();
elapsed = timestamp2 - timestamp1;
fprintf(stderr, "History table loaded in %8.2f seconds.\n\n", elapsed);
fflush(stderr);

return;
}

```

```

/*-----*/
/* load nu_ord table */
/*-----*/

```

```

void load_nu_ord_tbl(void)
{
    EXEC SQL BEGIN DECLARE SECTION;
    long nu_ord_id;
    EXEC SQL END DECLARE SECTION;

    int nu_ord_hi;
    long ins_cnt = COMMIT_CNT;
#if defined (NT)
    /* GSM!, for NT named pipe */
    HANDLE hNamedPipe;
    char Buffer[1024];
    DWORD numBytes;
#endif

    /* compute maximum and minimum
    order numbers for this
    district */
    nu_ord_hi = CUSTOMERS_PER_DISTRICT - NU_ORDERS_PER_DISTRICT + 1;
    if (nu_ord_hi < 0) {
        nu_ord_hi = CUSTOMERS_PER_DISTRICT - (CUSTOMERS_PER_DISTRICT / 3) +
1;
        fprintf(stderr, "\n****WARNING **** NU_ORDERS_PER_DISTRICT is >
CUSTOMERS_PER_DISTRICT\n");
        fprintf(stderr, "        Check the values in file lval.h\n");
        fprintf(stderr, "        Loading New-Order with 1/3 of
CUSTOMERS_PER_DISTRICT\n");
    }
    sqlca.sqlcode = 0;
    initialize_random(99,37);

#if defined (NT)
    if(using_npipe)
    {
        if(PipeOpen(&hNamedPipe) != 0)
        {
            fprintf(stderr, "Pipe open error, exiting\n");
            fflush(stderr);
            exit(-1);
        }
    }
}

```

```

    }
}
#endif

timestamp1 = current_time();

for (ware_num = ware_base; ware_num < maxLocalWarehouse; ware_num++)
{
    fprintf(stderr, "Now generating New-Order for Warehouse #%d:\n", ware_num);
    for (dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
    {
        /* fprintf(stderr, "\tDistrict #%d ", dist_num); */
        for (nu_ord_id = nu_ord_hi;
            nu_ord_id <= CUSTOMERS_PER_DISTRICT;
            nu_ord_id++)
        {
            if (!using_db2)
            {
#if defined (NT)
                if(using_npipe)
                {
                    numBytes = sprintf(Buffer,
                        "%d|%hd|%ld\n",
                        nu_ord_id,
                        dist_num,
                        warehouseMap[ware_num]);
                    /* change %hd to %ld for warehouseMap[ware_num]

@000516AYL */

                    PipeWrite(hNamedPipe, Buffer, numBytes);
                }
                else
                {
#endif
                    printf ("%d|%hd|%ld\n", nu_ord_id, dist_num, warehouseMap[ware_num]);
                    /* change %hd to %ld for warehouseMap[ware_num]

@000516AYL */
                    #if defined (NT)
                    }
                    #endif
                }
                else
                {
                    EXEC SQL
                    insert into NEW_ORDER
                    values(:nu_ord_id,:dist_num,:ware_num) ;
                    if (sqlca.sqlcode != 0)
                    {
                        SQLERR(&sqlca, "INSERT NEW_ORDER");
                    }
                    else
                    {
                        --ins_cnt;
                        if (ins_cnt == 0)
                        {
                            ins_cnt = COMMIT_CNT;
                            fprintf(stderr, ".");
                            EXEC SQL commit work ;
                            if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
                        }
                    }
                }
            }
        }
        /* fprintf(stderr, "..loaded\n"); */
    }
}

#if defined (NT)
/* GSM, for NT named pipes */
if(using_npipe)
{
    PipeClose(hNamedPipe);
}
#endif

if (using_db2)
{
    EXEC SQL commit work ;
}
}

```

```

        if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
    }
    timestamp2 = current_time();
    elapse = timestamp2 - timestamp1;
    fprintf(stderr, "New-Order table loaded in %8.2f seconds.\n\n", elapse);
    fflush(stderr);

    return;
}

/*-----*/
/*   load order and order_line tables   */
/*-----*/

void load_ordr_tbl( void )
{
    FILE *orders_fp;
    FILE *warehouse_fp;
    EXEC SQL BEGIN DECLARE SECTION;
    long ord_r_carrier_id;
    long ord_r_cnt;
    long ord_r_ol_cnt;
    long oline_ol_num;
    long oline_ol_cnt;
    long oline_item_num;
    long ord_r_all_local;

    long oline_amount;
    char oline_dist_info[25];
    long null_tmstamp = 0;
    EXEC SQL END DECLARE SECTION;

    char null_ts[] = "0001-01-01-00.00.01.000000";
    long ins_cnt = COMMIT_CNT;
#if defined (NT)
    /* GSM!, for NT named pipe */
    HANDLE hNamedPipe;
    char Buffer[1024];
    DWORD numBytes;
#endif

    oline_dist_info[24] = '\0';
    initialize_random(42,13);

    if (!using_db2 && load_order_table && load_order_line_table)
    {
        if ((orders_fp = fopen("ASCII_ORDERS_TABLE", "w")) == NULL)
        {
            fprintf(stderr, "Error opening ASCII_ORDERS_TABLE\n");
            return;
        }
    }

#if defined (NT)
    if(using_npipe)
    {
        if(PipeOpen(&hNamedPipe) != 0)
        {
            fprintf(stderr, "Pipe open error, exiting\n");
            fflush(stderr);
            exit(-1);
        }
    }
#endif

    timestamp1 = current_time();
    time((time_t *)&currtmstamp);

    for (ware_num = ware_base; ware_num < maxLocalWarehouse; ware_num++)
    {
        fprintf(stderr, "Now generating ");
        if (load_order_table && load_order_line_table)
            fprintf(stderr, "Order & Order-Line ");
        else if (load_order_table)
            fprintf(stderr, "Order");
        else
            fprintf(stderr, "Order-Line");
    }

```

```

        fprintf(stderr, "table(s) for Warehouse #%d:\n", ware_num);

    for (dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
    {
        /*fprintf(stderr, "\tDistrict #%d ", dist_num);*/
        seed_1_3000();
        for (ord_num = 1; ord_num <= CUSTOMERS_PER_DISTRICT; ord_num++)
        {
            if (ord_num < 2101)
                ord_r_carrier_id = rand_integer( 1, 10 );
            else
                ord_r_carrier_id = 0;

            cust_num = random_1_3000();
            ord_r_ol_cnt = rand_integer(MIN_OL_PER_ORDER, MAX_OL_PER_ORDER);
            ord_r_all_local = 1;
            if (load_order_table)
            {
                if (!using_db2)
                {
                    if (load_order_line_table)
                    {
                        fprintf(orders_fp,
                            "%d|%d|%d|%d|%d|%d|%d|\n",
                            ord_num,
                            cust_num,
                            dist_num,
                            warehouseMap[ware_num],
                            currtmstamp,
                            ord_r_carrier_id,
                            ord_r_ol_cnt,
                            1);
                    } /* change %d to %ld for warehouseMap[ware_num] @000516AYL */
                    else
                    {
                        #if defined (NT)
                        if(using_npipe)
                        {
                            numBytes = sprintf(Buffer,
                                "%d|%d|%d|%d|%d|%d|%d|\n",
                                ord_num,
                                cust_num,
                                dist_num,
                                warehouseMap[ware_num],
                                currtmstamp,
                                ord_r_carrier_id,
                                ord_r_ol_cnt,
                                1);

                            PipeWrite(hNamedPipe, Buffer, numBytes);
                        } /* change %d to %ld for warehouseMap[ware_num] @000516AYL */
                        else
                        {
                            #endif
                            printf("%d|%d|%d|%d|%d|%d|%d|\n",
                                ord_num,
                                cust_num,
                                dist_num,
                                warehouseMap[ware_num],
                                currtmstamp,
                                ord_r_carrier_id,
                                ord_r_ol_cnt,
                                1);
                            #if defined (NT)
                        } /* change %d to %ld for warehouseMap[ware_num] @000516AYL */
                        #endif
                        }
                    }
                }
            }
            EXEC SQL insert into ORDERS
            values( :ord_num, :cust_num, :dist_num, :ware_num,
                :currtmstamp, :ord_r_carrier_id,
                :ord_r_ol_cnt, 1 );
            if (sqlca.sqlcode != 0) SQLERR(&sqlca, "16");
            --ins_cnt;
            if (ins_cnt == 0)
            {

```

```

        ins_cnt = COMMIT_CNT;
        fprintf(stderr, ".");
        EXEC SQL commit work;
        if (sqlca.sqlcode != 0) SQLERR(&sqlca, "commit work");
    }
}

sqlca.sqlcode = 0;
for ( oline_ol_num = 1; oline_ol_num <= ord_r_ol_cnt; oline_ol_num++)
{
    oline_item_num = rand_integer(1, ITEMS);
    create_random_a_string( oline_dist_info, 24, 24);
    oline_amount = rand_integer(001, 999999);
    if (load_order_line_table)
    {
        if (ord_num < 2101)
        {
            oline_amount = 0;
            if (!using_db2)
            {
#ifdef defined (NT)
                if(using_npipe)
                {
                    numBytes = sprintf(Buffer,
                        "%d|%d|%d|%d|%d|%d|%d|%d|%d|%d|\n",
                        ord_num,
                        dist_num,
                        warehouseMap[ware_num],
                        oline_ol_num,
                        oline_item_num,
                        warehouseMap[ware_num],
                        currtmstp,
                        5,
                        oline_amount,
                        oline_dist_info);

                    PipeWrite(hNamedPipe, Buffer, numBytes);
                } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
                else
                {
#endif
                    printf ("%d|%d|%d|%d|%d|%d|%d|%d|%d|\n",
                        ord_num,
                        dist_num,
                        warehouseMap[ware_num],
                        oline_ol_num,
                        oline_item_num,
                        warehouseMap[ware_num],
                        currtmstp,
                        5,
                        oline_amount,
                        oline_dist_info);

#ifdef defined (NT)
                } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
            }
        }
        else
        {
            EXEC SQL
            insert into ORDER_LINE
            values( :ord_num, :dist_num, :ware_num, :oline_ol_num,
                :oline_item_num, :ware_num,
                :currtmstp, 5, :oline_amount,
                :oline_dist_info );
            if (sqlca.sqlcode != 0) SQLERR(&sqlca, "77");
        }
    }
    else
    {
        if (!using_db2)
        {
#ifdef defined (NT)
            if(using_npipe)
            {
                numBytes = sprintf(Buffer,
                    "%d|%d|%d|%d|%d|%d|%d|%d|%d|\n",
                    ord_num,

```

```

                        dist_num,
                        warehouseMap[ware_num],
                        oline_ol_num,
                        oline_item_num,
                        warehouseMap[ware_num],
                        null_tmstp,
                        5,
                        oline_amount,
                        oline_dist_info);

                PipeWrite(hNamedPipe, Buffer, numBytes);
            } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
        }
    }
}

#ifdef defined
    printf ("%d|%d|%d|%d|%d|%d|%d|%d|%d|\n",
        ord_num,
        dist_num,
        warehouseMap[ware_num],
        oline_ol_num,
        oline_item_num,
        warehouseMap[ware_num],
        null_tmstp,
        5,
        oline_amount,
        oline_dist_info);
#endif
#ifdef defined (NT)
    } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
#endif
}
else
{
    EXEC SQL
    insert into ORDER_LINE
    values( :ord_num, :dist_num, :ware_num, :oline_ol_num,
        :oline_item_num, :ware_num,
        :null_tmstp, 5, :oline_amount,
        :oline_dist_info );
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "78");
}
}

if (using_db2)
{
    --ins_cnt;
    if (ins_cnt == 0)
    {
        ins_cnt = COMMIT_CNT;
        fprintf(stderr, ".");
        EXEC SQL commit work;
        if (sqlca.sqlcode != 0) SQLERR(&sqlca, "commit work");
    }
}
}
}

}
fprintf(stderr, "..loaded\n");
fflush(stderr);
}

#ifdef defined (NT)
    /* GSM, for NT named pipes */
    if(using_npipe)
    {
        PipeClose(hNamedPipe);
    }
}
#endif

if (using_db2)
{
    EXEC SQL commit work ;
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "commit work");
}
if (!using_db2 && load_order_table && load_order_line_table) {
    fclose(orders_fp);
}
timestamp2 = current_time();

```

```

    elapse = timestamp2 - timestamp1;
    if (load_order_table && load_order_line_table)
        fprintf(stderr, "Order & Order-Line ");
    else if (load_order_table)
        fprintf(stderr, "Order");
    else
        fprintf(stderr, "Order-Line");
    fprintf(stderr, "table(s) loaded in %8.2f seconds.\n\n", elapse);
    fflush(stderr);

    return;
}

void computeLocalWarehouses(void){

    long i; /* @change int to long 000516AYL */
    char table_name[50];

    unsigned char *key_value[1];
    unsigned short key_len[1];
    unsigned short ctrycode = 1;
    unsigned short codepage = 1252;
    unsigned short chklvl = 3;
    struct sqlupi part_info;
    struct sqlca sqlca_inst;
    short part_number;
    SQL_PDB_NODE_TYPE node_number;

    connect_to_TM(dbname);
    EXEC SQL VALUES CURRENT NODE INTO :this_node;
    if (SQLCODE != 0) {
        fprintf(stderr, " Error when querying CURRENT NODE (SQLCODE = %d)\n",
        SQLCODE);
        exit(-1);
    }
    strcpy(table_name, dbname);
    strcat(table_name, ".WAREHOUSE");

    sqlugtpi(table_name, &part_info, &sqlca_inst);
    if (check_error("sqlugtpi failed", &sqlca_inst) != 0){
        exit(-1);
    }

    for(i=1; i<=WAREHOUSES; i++){
        key_value[0] = malloc(10);
        sprintf(key_value[0], "%d", i);
        key_len[0] = strlen(key_value[0]);

        sqlugrpn(part_info.sqlid, key_value, key_len, ctrycode, codepage,
        &part_info, &part_number, &node_number, chklvl, &sqlca_inst,
        SQL_CHARSTRING_FORMAT, (void*)0, (void*)0);
        if (check_error("sqlugrpn failed", &sqlca_inst) != 0){
            exit(-1);
        }
        if (node_number == this_node)
            warehouseMap[maxLocalWarehouse++] = i;
    }
    //printf("LOCAL WAREHOUSES (Number of W_IDs = %d out of %d Node: %d):\n",
    maxLocalWarehouse, WAREHOUSES, this_node);
    for(i=0; i<maxLocalWarehouse; i++){
        if (i % 10 == 0) printf("\n");
        // printf("%4d", warehouseMap[i]);
    }

    disconnect_from_TM();
}

#if defined (NT)

/* Function to create a named pipe */
int PipeOpen(HANDLE *phNamedPipe)
{
    char *PipeName = "\\.\pipe\\loadpipe";
    DWORD iTimeOut = 1000;
    int error = 0;

    /* GSM, create named pipe on NT */
    *phNamedPipe = CreateNamedPipe(PipeName,
        PIPE_ACCESS_OUTBOUND,
        PIPE_TYPE_BYTE | PIPE_READMODE_BYTE | PIPE_WAIT,
        1,
        0,
        0,
        iTimeOut,
        NULL);

    if ((*phNamedPipe) == INVALID_HANDLE_VALUE)
    {
        printf("Pipe create failed with error %d\n", GetLastError());
        fflush(stdout);
        error = 1;
    }
    else
    {
        if (ConnectNamedPipe(*phNamedPipe, NULL))
        {
            printf("Pipe connect is OK\n");
            fflush(stdout);
        }
        else
        {
            printf("Pipe connect failed\n");
            fflush(stdout);
            error = 1;
        }
    }
    return error;
}

/* Function to write specified number of bytes to the pipe */
int PipeWrite(HANDLE hNamedPipe, char *Buffer, DWORD numBytes)
{
    DWORD numBytesWritten;
    int rc;

    rc = WriteFile(hNamedPipe,
        Buffer,
        numBytes,
        &numBytesWritten,
        NULL);

    if (!rc)
    {
        fprintf(stderr, "WriteFile problem with error %d\n", GetLastError());
        fflush(stderr);
    }
    else
    {
        if (numBytes != numBytesWritten)
        {
            rc = -1;
            fprintf(stderr, "Incorrect number of bytes written to pipe\n");
            fflush(stderr);
        }
    }
    return rc;
}

/* Functio to close the pipe */
int PipeClose(HANDLE hNamedPipe)
{
    int rc;

    /* Flush all output that is still in the pipe. */
    /* This forces us to wait until the client has read everything that we */
    /* sent. */
    rc = FlushFileBuffers(hNamedPipe);
    if (rc == TRUE)
    {
        fprintf(stderr, "Pipe flushed successfully\n");
        fflush(stderr);
    }
}

```

```

}
else
{
    fprintf(stderr, "Pipe flush error - %d\n", GetLastError());
    fflush(stderr);
}

/* Disconnect named pipe from client*/
rc = DisconnectNamedPipe(hNamedPipe);
if(rc == TRUE)
{
    fprintf(stderr, "Pipe disconnected successfully\n");
    fflush(stderr);
}
else
{
    fprintf(stderr, "Pipe disconnect error - %d\n", GetLastError());
    fflush(stderr);
}

/* Close named pipe, discards it */
CloseHandle(hNamedPipe);

return rc;
}

#endif

void connect_to_TM(char *in_dbname) {
    SQL_STRUCTURE sqlca sqlca;
    char *dbname_ptr;
    void *ctx;

    // make sure we're in multi context mode
    sqlcSetTypeCtx(SQL_CTX_MULTITHREAD);

    // create a context for this connection if there is a context pointer
    sqlcBeginCtx(&ctx, SQL_CTX_BEGIN_ALL, NULL, &sqlca);

    if (SQLCODE != 0) {
        fprintf(stderr, "%s: sqlcBeginCtx: SQLCODE = %d\n", __FILE__, SQLCODE);
        exit(-1);
    }

    if (in_dbname == NULL) {
        if ((dbname_ptr=getenv("TPCC_DBNAME")) != NULL)
            strcpy(dbname, dbname_ptr);
    } else
        strcpy(dbname, in_dbname);

    EXEC SQL CONNECT TO :dbname IN SHARE MODE;

    if (SQLCODE != 0) {
        fprintf(stderr, "%s: CONNECT TO %s: SQLCODE = %d\n", __FILE__, dbname,
SQLCODE);
        exit(-1);
    }
} /* connect_to_TM */

void disconnect_from_TM() {
    SQL_STRUCTURE sqlca sqlca;
    void *ctx;

    EXEC SQL CONNECT RESET;

    if (SQLCODE != 0)
        fprintf(stderr, "%s: CONNECT RESET: SQLCODE = %d\n", __FILE__, SQLCODE);

    sqlcGetCurrentCtx(&ctx, NULL, &sqlca);

    if (SQLCODE != 0) {
        fprintf(stderr, "%s: sqlcGetCurrentCtx: SQLCODE = %d\n", __FILE__, SQLCODE);
        exit(-1);
    }

    sqlcEndCtx(&ctx, SQL_CTX_END_ALL, NULL, &sqlca);

    if (SQLCODE != 0) {
        fprintf(stderr, "%s: sqlcEndCtx: SQLCODE = %d\n", __FILE__, SQLCODE);
        exit(-1);
    }
}

```

```

}
} /* disconnect_from_TM */

int check_error (char eString[], struct sqlca *caPointer) {
    char eBuffer[1024];
    char sBuffer[1024];
    short rc, Erc;

    if (caPointer->sqlcode != 0) {
        printf("--- error report ---\n");
        printf("ERROR occurred : %s.\nSQLCODE : %d\n", eString,
caPointer->sqlcode);

        /*****
        * GET SQLSTATE MESSAGE *
        *****/
        rc = sqlcstt (sBuffer, 1024, 80, caPointer->sqlstate);

        /*****
        * GET ERROR MESSAGE API called *
        *****/
        Erc = sqlainp (eBuffer, 1024, 80, caPointer);

        /* return code is the length of the eBuffer string */
        if (Erc > 0) printf ("%s", eBuffer);

        if (caPointer->sqlcode < 0) {
            if (rc == 0) {
                printf ("\n%s", sBuffer);
            }
            printf ("--- end error report ---\n");
            return 1;
        } else {
            /* errorCode is just a Warning message */
            if (rc == 0) {
                printf ("\n%s", sBuffer);
            }
            printf ("--- end error report ---\n");
            printf ("WARNING - CONTINUING PROGRAM WITH WARNINGS!\n");
            return 0;
        } /* endif */
    } /* endif */
    return 0;
}

```

Data Load Code

load_all_local.bat

```

@echo off
call c:\tpcckit_mln\tpccenv1.bat
db2 -v connect to tpcc
date/t;
time /t;
db2 -v "load from %TPCC_DATA1%\warehouse.dat of del modified by coldel messages
%TPCC_MSGS%\warehouse_load.msg replace into warehouse using %TPCC_TEMP%";
time /t;
db2 -v "load from %TPCC_DATA1%\district.dat of del modified by coldel messages
%TPCC_MSGS%\district_load.msg replace into district using %TPCC_TEMP%";
time /t;
db2 -v "load from %TPCC_DATA1%\customer.dat of del modified by coldel messages
%TPCC_MSGS%\customer_load.msg replace into customer using %TPCC_TEMP%";
time /t;
db2 -v "load from %TPCC_DATA1%\order_line.dat of del modified by coldel messages
%TPCC_MSGS%\order_line_load.msg replace into order_line using %TPCC_TEMP%";
time /t;

db2 -v "load from %TPCC_DATA2%\stock.dat of del modified by coldel messages
%TPCC_MSGS%\stock_load.msg replace into stock using %TPCC_TEMP%";
time /t;

```

```

db2 -v "load from %TPCC_DATA2%\history.dat of del modified by coldel messages
%TPCC_MSGS%\history_load.msg replace into history using %TPCC_TEMP%";
time /t
db2 -v "load from %TPCC_DATA2%\new_order.dat of del modified by coldel messages
%TPCC_MSGS%\new_order_load.msg replace into new_order using %TPCC_TEMP%";
time /t
db2 -v "load from %TPCC_DATA2%\orders.dat of del modified by coldel messages
%TPCC_MSGS%\orders_load.msg replace into orders using %TPCC_TEMP%";
db2 connect reset
db2 terminate
date /t
time /t

```

tpccenv1.bat

```

set DB2INSTANCE=TPCC
set DB2NODE=1
set TPCC_DBNAME=TPCC
set TPCC_ROOT=c:\tpcckit_mln
set TPCC_DBGEN=%TPCC_ROOT%\dbgen
set TPCC_SQLLIB=c:\sqllib

rem **** Note USER name is CASE SENSITIVE **** Use Upper case.
set TPCC_USER=TPCC

rem **** If we don't use named pipes, then:
rem **** Where delimited data for table loading will go
set TPCC_DATA1=f:\tpcc_data
set TPCC_DATA2=g:\tpcc_data
set TPCC_TEMP=f:\tpcc_temp
set TPCC_MSGS=f:\tpcc_msgs
set TPCC_OUT=f:\tpcc_out
set TPCC_EXP=f:\tpcc_exp
set TPCC_LOGDIR=\\.\PhysicalDrive1Partition1

rem **** Whether to use named pipes to load
set TPCC_LOADPIPE=N

rem **** Whether to delete delimited data after load
set TPCC_DELDATA=Y

rem * This is required for different config changes ie; bufferpool
set DB2_VERSION=v6

rem * Set the number of logs here. size is in pages
rem MAX log file size is 65535
set TPCC_LOGSIZE=50000
set TPCC_NUMLOGS=20
set TPCC_LOGSECOND=0
set TPCC_SOFTMAX=2000

rem * These setting should optimize the index and runstat phases
set TPCC_SORT_THRESH=20000
set TPCC_SORT_HEAP_SZ=1024
set TPCC_STAT_HEAP_SZ=5000
set TPCC_TEMP_BUFF_SZ=1000
set TPCC_BUFF_PAGE_SZ=100000
set TPCC_UTIL_HEAP_SZ=102400
set TPCC_NUM_IOCLEANERS=16

db2set DB2COMM=tcPIP -i tpcc
db2set DB2TEMPDIR=c:\TMP -i tpcc
db2set DB2INSTDEF=tpcc -i tpcc
db2set DB2ADMINSERVER=DB2DAS00 -i tpcc
db2set DB2NTNOCACHE=ON
db2set -all

```

Appendix C: Tunable Parameters

Microsoft Windows 2000 Advanced Server Configuration Parameters

When Windows 2000 Advanced Server was installed, the following components were selected for installation:-

Accessories and Utilities

Accessories

- Calculator
- Clipboard Viewer
- Document Templates
- Object Packager
- Word Pad

Networking Services

- QoS Admission Control Service
- Simple TCP/IP Services

Only one IBM ServeRAID was powered on at Windows 2000 Advanced Server install time. The ServeRAID device driver that is shipped on the Windows 2000 Advanced Server installation CD was installed. Only the first IBM PCI 10/100 Etherjet Management card was powered at installation time, the driver that came on the Windows 2000 Advanced Server installation CD was installed for it.

After Windows 2000 Advanced Server installation the other 7 IBM ServeRAID adapters, 1 IBM PCI 10/100 Etherjet Management card and 1 Giganet card were powered. The IBM ServeRAID miniport driver was upgraded to IBM ServeRAID miniport and filter driver (ipsraidn.sys and ipsperf.sys). These drivers are available from the IBM web site. The giganet device driver was also installed. We downloaded the giganet beta 2 device driver from Giganet's web site.

The IP addresses were configured for the network cards on each server node. The first card was to make the node visible on the campus, and was not part of the benchmark. The second card was to connect the servers to its clients. The giganet card was the interconnect between the server nodes.

The Windows 2000 Advanced Server service 'Print Spooler' was disabled on the Server Nodes.

The min swap page size was changed from the default of 2048 to 4095 via Control Panel/System/Advanced Options/Performance Options. Also the system performance was optimized for background services.

The screen saver was set to never be activated on the server nodes (Control Panel/Display).

The following changes were made to the registry on the Server Nodes - added to key HKLM\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters DWORD value MaxUserPort 20000 decimal. Added to key HKLM\System\CurrentControlSet\Control\Session Manager\I/O Subsystem DWORD value CountOperations 0. The last registry edition disables some system performance counters for I/O. Set HKLM\SYSTEM\CurrentControlSet\Session Manager\Memory Management LargeSystemCache to 0 instead of 1. This optimizes the server as an application server rather than as a file server.

Microsoft Windows 2000 Server Configuration Parameters

When Windows 2000 Server was installed on the clients, the following components were selected for installation:-

Accessories and Utilities

Accessories

- Calculator
- Clipboard Viewer
- Object Packager
- Word Pad

Communications

- Chat
- HyperTerminal
- Phone Dialer

Internet Information Services (IIS)

- Common Files
- Documentation
- Front Page 2000 Server Extensions
- Internet Information Services Snap-In
- Internet Services Manager (HTML)
- SMTP Service
- World Wide Web Server

Networking Services

- COM Internet Services Proxy
- Internet Authentication Service
- Simple TCP/IP Services

Windows 2000 Server installed drivers for the on board ethernet controller and the Intel dual port ethernet cards from the Windows 2000 Server installation CD.

After Windows 2000 Server installation the driver for the onboard AMD Ethernet adapter was upgraded. This driver is available from IBM and AMD's websites.

The IP addresses were configured for the network cards on each client. The onboard card was configured to talk to the database server node for the client. The Intel dual port ethernet adapters were configured to talk to the client's RTEs.

The Windows 2000 Server Service Print Spooler was set to manual on all the clients.

The screen saver was set to never be activated on the clients (Control Panel/Display).

The following changes were made to the registry on the clients - added to key HKLM\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters DWORD value MaxUserPort 20000 decimal.

Boot.ini Parameters

The /3GB /NOPAE switches were added to the boot.ini file to cause Windows 2000 Advanced Server to allow 3GB of user and 1GB of kernel virtual address space, rather than the usual 2GB of virtual address space for each.

Transaction Monitor: COM+ Settings on Clients

TPCC COM+ Component settings

TPCC.AllRemoteTxns.1

Activation

- Enable Object pooling
- Minimum pool size 4
- Maximum pool size 7
- Creation timeout (ms) 300000

```

    Enable object construction
    Object construction
        Constructor string 'dummy string (do not
remove)'

    Enable Just In Time Activation
    Disable Component supports events and statistics
    Disable Must be activated in caller's context

TPCC.AllTxns.1
    Activation
        Enable Object pooling
        Minimum pool size 18
        Maximum pool size 36
        Creation timeout (ms) 300000
        Enable object construction
        Object construction
            Constructor string 'dummy string (do not
remove)'

    Enable Just In Time Activation
    Disable Component supports events and statistics
    Disable Must be activated in caller's context

```

TPC-C Application Registry Parameters on Clients

REGEDIT4

```

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\TPCC]
"Path"="c:\inetpub\wwwroot\"
"NumberOfDeliveryThreads"=dword:00000005
"MaxConnections"=dword:00002710
"MaxPendingDeliveries"=dword:000003e8
"DB_Protocol"="DB2"
"TxnMonitor"="COM"
"DbServer"="FSNODE03CL"
"DbName"="tpcc"
"DbUser"="tpcc"
"DbPassword"="tpcc"
"COM_SinglePool"="YES"
"MaxWarehouses"=dword:0000a320

```

Microsoft Internet Information Service Registry Parameters

REGEDIT4

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo]

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Parameters]
"ListenBackLog"=dword:00000096
"DispatchEntries"=hex(7):4c,44,41,50,53,56,43,00,53,4d,54,50,53,56,43,00,00
"PoolThreadLimit"=dword:000000be
"ThreadTimeout"=dword:00015180

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Performance]
"Library"="infcstrs.dll"
"Open"="OpenINFOPerformanceData"
"Close"="CloseINFOPerformanceData"
"Collect"="CollectINFOPerformanceData"
"Last Counter"=dword:00000842
"Last Help"=dword:00000843
"First Counter"=dword:00000802

```

```

"First Help"=dword:00000803
"Library Validation
Code"=hex:a2,46,20,29,3b,72,bf,01,10,25,00,00,00,00,00
"WbemAdapFileTime"=hex:00,80,19,01,46,40,bf,01
"WbemAdapFileSize"=dword:00002510
"WbemAdapStatus"=dword:00000000

```

World Wide Web Service Registry Parameters

REGEDIT4

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC]
"Type"=dword:00000020
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,57,49,4e,4e,54,5c,53,79,73,74,65,6d,33,32,5c,69
,6e,
65,74,73,72,76,5c,69,6e,65,74,69,6e,66,6f,2e,65,78,65,00
"DisplayName"="World Wide Web Publishing Service"
"DependOnService"=hex(7):49,49,53,41,44,4d,49,4e,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"
"Description"="Provides Web connectivity and administration through the
Internet Information Services snap-in."

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\ASP]
"NOTE"="This is for backward compatibility only."

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\ASP\Parameters]

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters]
"MajorVersion"=dword:00000005
"MinorVersion"=dword:00000000
"InstallPath"="C:\WINNT\System32\inetsrv"
"CertMapList"="C:\WINNT\System32\inetsrv\iisrcmap.dll"
"AccessDeniedMessage"="Error: Access is Denied."
"Filter DLLs"=""
"LogFileDirectory"="C:\WINNT\System32\LogFiles"
"AcceptExOutstanding"=dword:00000028

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch]

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch\AdvancedDataFactory]

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch\RDSServer.DataFactory]

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\Script Map]

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\Virtual Roots]
"/"="c:\inetpub\wwwroot,205"
"/Scripts"="c:\inetpub\scripts,1"
"/IISHelp"="c:\winnt\help\iishelp,1"
"/IISAdmin"="C:\WINNT\System32\inetsrv\iisadmin,1"
"/IISSamples"="c:\inetpub\iissamples,1"
"/MSADC"="c:\program files\common files\system\msadc,1"
"/_vti_bin"="C:\Program Files\Common Files\Microsoft Shared\Web Server
Extensions\40\isapi,1"

```

```
"/Rpc"="C:\\WINNT\\System32\\RpcProxy,,1"  
"/Printers"="C:\\WINNT\\web\\printers,,201"
```

```
[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\W3SVC\\Performance]  
"Library"="w3ctrs.dll"  
"Open"="OpenW3PerformanceData"  
"Close"="CloseW3PerformanceData"  
"Collect"="CollectW3PerformanceData"  
"Last Counter"=dword:000008e6  
"Last Help"=dword:000008e7  
"First Counter"=dword:00000844  
"First Help"=dword:00000845  
"Library Validation  
Code"=hex:9e,5f,03,2c,3b,72,bf,01,10,3d,00,00,00,00,00,00  
"WbemAdapFileTime"=hex:00,80,19,01,46,40,bf,01  
"WbemAdapFileSize"=dword:00003d10  
"WbemAdapStatus"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\W3SVC\\Security]  
"Security"=hex:01,00,14,80,a0,00,00,00,ac,00,00,00,14,00,00,00,30,00,00,00,  
02,\\  
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\\  
00,00,02,00,70,00,04,00,00,00,00,18,00,fd,01,02,00,01,01,00,00,00,00,00,\\  
05,12,00,00,00,74,00,6f,00,00,00,1c,00,ff,01,0f,00,01,02,00,00,00,00,00,05,\\  
20,00,00,00,20,02,00,00,72,00,73,00,00,00,18,00,8d,01,02,00,01,01,00,00,00,\\  
00,00,05,0b,00,00,00,20,02,00,00,00,00,1c,00,fd,01,02,00,01,02,00,00,00,00,\\  
00,05,20,00,00,00,23,02,00,00,72,00,73,00,01,01,00,00,00,00,05,12,00,00,\\  
00,01,01,00,00,00,00,00,05,12,00,00,00
```

```
[HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\W3SVC\\Enum]  
"0"="Root\\LEGACY_W3SVC\\0000"  
"Count"=dword:00000001  
"NextInstance"=dword:00000001
```

DB2 UDB V7.1.0 Configuration Parameters

DB2 UDB Installation options

DB2 UDB was installed on the server nodes using the DB2 UDB installation CD. The following products were installed:

DB2 Enterprise - Extended Edition
DB2 Application Development Client
DB2 Administration Client

The radio button for “This machine will be an instance owning database partition server” was selected. Next we selected the button for “Typical” install.

When the installation was complete, we dropped the default instance db2mpp created by the installation. Then we created a new instance called TPCC on fsnode01 before creating a new db2 node on the other machines.

DB2 Administration Client was installed on the clients using the DB2 UDB installation CD.

DB2 UDB V7.1.0 Startup Parameters

db2start

Database Manager Configuration for All DB2 Nodes

Database Manager Configuration

Node type = Partitioned Database Server with local and remote clients
Database manager configuration release level = 0x0900
Maximum total of files open (MAXTOTFILOP) = 32000
CPU speed (millisec/instruction) (CPUSPEED) = 7.872404e-007
Communications bandwidth (MB/sec) (COMM_BANDWIDTH) = 1.000000e+002
Max number of concurrently active databases (NUMDB) = 1
Data Links support (DATA LINKS) = NO
Federated Database System Support (FEDERATED) = NO
Transaction processor monitor name (TP_MON_NAME) =
Default charge-back account (DFT_ACCOUNT_STR) =
Java Development Kit 1.1 installation path (JDK11_PATH) =
Diagnostic error capture level (DIAGLEVEL) = 0
Notify Level (NOTIFYLEVEL) = 0
Diagnostic data directory path (DIAGPATH) =
Default database monitor switches
Buffer pool (DFT_MON_BUFPOOL) = OFF
Lock (DFT_MON_LOCK) = OFF
Sort (DFT_MON_SORT) = OFF
Statement (DFT_MON_STMT) = OFF
Table (DFT_MON_TABLE) = OFF
Unit of work (DFT_MON_UOW) = OFF
SYSADM group name (SYSADM_GROUP) =
SYSCtrl group name (SYSCtrl_GROUP) =
SYSMAINT group name (SYSMAINT_GROUP) =
Database manager authentication (AUTHENTICATION) = CLIENT
Cataloging allowed without authority (CATALOG_NOAUTH) = NO
Trust all clients (TRUST_ALLCLNTS) = YES
Trusted client authentication (TRUST_CLNTAUTH) = CLIENT
Default database path (DFTDBPATH) = C:
Database monitor heap size (4KB) (MON_HEAP_SZ) = 1024
UDF shared memory set size (4KB) (UDF_MEM_SZ) = 256
Java Virtual Machine heap size (4KB) (JAVA_HEAP_SZ) = 512
Audit buffer size (4KB) (AUDIT_BUF_SZ) = 0
Backup buffer default size (4KB) (BACKBUFSZ) = 1024
Restore buffer default size (4KB) (RESTBUFSZ) = 1024
Agent stack size (AGENT_STACK_SZ) = 32
Minimum committed private memory (4KB) (MIN_PRIV_MEM) = 64
Private memory threshold (4KB) (PRIV_MEM_THRESH) = 1296
Sort heap threshold (4KB) (SHEAPTHRES) = 10000
Directory cache support (DIR_CACHE) = YES
Application support layer heap size (4KB) (ASLHEAPSZ) = 15
Max requester I/O block size (bytes) (RQRIOBLK) = 32767
DOS requester I/O block size (bytes) (DOS_RQRIOBLK) = 4096
Query heap size (4KB) (QUERY_HEAP_SZ) = 1000
DRDA services heap size (4KB) (DRDA_HEAP_SZ) = 128
Priority of agents (AGENTPRI) = 6
Max number of existing agents (MAXAGENTS) = 5000
Agent pool size (NUM_POOLAGENTS) = 1600
Initial number of agents in pool (NUM_INITAGENTS) = 1600
Max number of coordinating agents (MAX_COORDAGENTS) = (MAXAGENTS - NUM_INITAGENTS)
Max no. of concurrent coordinating agents (MAXCAGENTS) = MAX_COORDAGENTS
Max number of logical agents (MAX_LOGICAGENTS) = MAX_COORDAGENTS

Keep DARI process (KEEPDARI) = YES
 Max number of DARI processes (MAXDARI) = 1
 Initialize DARI process with JVM (INITDARI_JVM) = NO
 Initial number of fenced DARI process (NUM_INITDARIS) = 0
 Index re-creation time (INDEXREC) = ACCESS
 Transaction manager database name (TM_DATABASE) = 1ST_CONN
 Transaction resync interval (sec) (RESYNC_INTERVAL) = 1800
 SPM name (SPM_NAME) =
 SPM log size (SPM_LOG_FILE_SZ) = 256
 SPM resync agent limit (SPM_MAX_RESYNC) = 20
 SPM log path (SPM_LOG_PATH) =
 NetBIOS Workstation name (NNAME) =
 TCP/IP Service name (SVCENAME) = db2cTPCC
 APPC Transaction program name (TPNAME) =
 IPX/SPX File server name (FILESERVER) =
 IPX/SPX DB2 server object name (OBJECTNAME) =
 IPX/SPX Socket number (IPX_SOCKET) = 879E
 Discovery mode (DISCOVER) = SEARCH
 Discovery communication protocols (DISCOVER_COMM) =
 Discover server instance (DISCOVER_INST) = ENABLE
 Directory services type (DIR_TYPE) = NONE
 Directory path name (DIR_PATH_NAME) = ./:/subsys/database/
 Directory object name (DIR_OBJ_NAME) =
 Routing information object name (ROUTE_OBJ_NAME) =
 Default client comm. protocols (DFT_CLIENT_COMM) =
 Default client adapter number (DFT_CLIENT_ADPT) = 0
 Maximum query degree of parallelism (MAX_QUERYDEGREE) = 1
 Enable intra-partition parallelism (INTRA_PARALLEL) = NO
 No. of int. communication buffers(4KB)(FCM_NUM_BUFFERS) = 13000
 Number of FCM request blocks (FCM_NUM_RQB) = 13000
 Number of FCM connection entries (FCM_NUM_CONNECT) =
 (FCM_NUM_RQB * 0.75)
 Number of FCM message anchors (FCM_NUM_ANCHORS) =
 (FCM_NUM_RQB * 0.75)
 Node connection elapse time (sec) (CONN_ELAPSE) = 10
 Max number of node connection retries (MAX_CONNNRETRIES) = 5
 Max time difference between nodes (min) (MAX_TIME_DIFF) = 60
 db2start/db2stop timeout (min) (START_STOP_TIME) = 4

Database Configuration for Instance-Owning Node (Node 0)

Database Configuration for Database tpcc for Node 0
 Database configuration release level = 0x0900
 Database release level = 0x0900
 Database territory = US
 Database code page = 1252
 Database code set = IBM-1252
 Database country code = 1
 Dynamic SQL Query management (DYN_QUERY_MGMT) =
 DISABLE
 Directory object name (DIR_OBJ_NAME) =
 Discovery support for this database (DISCOVER_DB) = ENABLE
 Default query optimization class (DFT_QUERYOPT) = 0
 Degree of parallelism (DFT_DEGREE) = 1
 Continue upon arithmetic exceptions (DFT_SQLMATHWARN) = NO
 Default refresh age (DFT_REFRESH_AGE) = 0
 Number of frequent values retained (NUM_FREQVALUES) = 10
 Number of quantiles retained (NUM_QUANTILES) = 20
 Backup pending = NO
 Database is consistent = YES
 Rollforward pending = NO
 Restore pending = NO
 Multi-page file allocation enabled = NO
 Log retain for recovery status = RECOVERY
 User exit for logging status = NO
 Data Links Token Expiry Interval (sec) (DL_EXPINT) = 40

Data Links Number of Copies (DL_NUM_COPIES) = 1
 Data Links Time after Drop (days) (DL_TIME_DROP) = 1
 Data Links Token in Uppercase (DL_UPPER) = NO
 Data Links Token Algorithm (DL_TOKEN) = MACO
 Database heap (4KB) (DBHEAP) = 4096
 Catalog cache size (4KB) (CATALOGCACHE_SZ) = 64
 Log buffer size (4KB) (LOGBUFSZ) = 512
 Utilities heap size (4KB) (UTIL_HEAP_SZ) = 512
 Buffer pool size (pages) (BUFFPAGE) = 256
 Extended storage segments size (4KB) (ESTORE_SEG_SZ) = 16000
 Number of extended storage segments (NUM_ESTORE_SEGS) = 0
 Max storage for lock list (4KB) (LOCKLIST) = 2000
 Max appl. control heap size (4KB) (APP_CTL_HEAP_SZ) = 2048
 Sort list heap (4KB) (SORTHEAP) = 1024
 SQL statement heap (4KB) (STMTHEAP) = 2048
 Default application heap (4KB) (APPLHEAPSZ) = 12800
 Package cache size (4KB) (PCKCACHESZ) = 2560
 Statistics heap size (4KB) (STAT_HEAP_SZ) = 5000
 Interval for checking deadlock (ms) (DLCHKTIME) = 10000
 Percent. of lock lists per application (MAXLOCKS) = 90
 Lock timeout (sec) (LOCKTIMEOUT) = -1
 Changed pages threshold (CHNGPGS_THRESH) = 60
 Number of asynchronous page cleaners (NUM_IOCLEANERS) = 16
 Number of I/O servers (NUM_IOSERVERS) = 1
 Index sort flag (INDEXSORT) = YES
 Sequential detect flag (SEQDETECT) = NO
 Default prefetch size (pages) (DFT_PREFETCH_SZ) = 0
 Default number of containers = 1
 Default tablespace extentsize (pages) (DFT_EXTENT_SZ) = 8
 Max number of active applications (MAXAPPLS) = 5000
 Average number of active applications (AVG_APPLS) = 1000
 Max DB files open per application (MAXFILOP) = 600
 Log file size (4KB) (LOGFILSZ) = 5000
 Number of primary log files (LOGPRIMARY) = 2
 Number of secondary log files (LOGSECOND) = 0
 Changed path to log files (NEWLOGPATH) =
 Path to log files =
 C:\TPCC\NODE0000\SQL00001\SQLOGDIR\
 First active log file = S0000039.LOG
 Group commit count (MINCOMMIT) = 3
 Percent log file reclaimed before soft chkpt (SOFTMAX) = 200
 Log retain for recovery enabled (LOGRETAIN) = RECOVERY
 User exit for logging enabled (USEREXIT) = OFF
 Auto restart enabled (AUTORESTART) = ON
 Index re-creation time (INDEXREC) = SYSTEM (ACCESS)
 Default number of loadrec sessions (DFT_LOADREC_SES) = 1
 Number of database backups to retain (NUM_DB_BACKUPS) = 12
 Recovery history retention (days) (REC_HIS_RETENTN) = 366
 TSM management class (TSM_MGMTCLASS) =
 TSM node name (TSM_NODENAME) =
 TSM owner (TSM_OWNER) =
 TSM password (TSM_PASSWORD) =

Database Configuration for All Non-Instance-Owning Nodes (Nodes 1-32)

Database Configuration for Database tpcc for Node 1 to 32
 Database configuration release level = 0x0900
 Database release level = 0x0900
 Database territory = US
 Database code page = 1252
 Database code set = IBM-1252
 Database country code = 1
 Dynamic SQL Query management (DYN_QUERY_MGMT) =
 DISABLE

Directory object name (DIR_OBJ_NAME) =
 Discovery support for this database (DISCOVER_DB) = ENABLE
 Default query optimization class (DFT_QUERYOPT) = 0
 Degree of parallelism (DFT_DEGREE) = 1
 Continue upon arithmetic exceptions (DFT_SQLMATHWARN) = NO
 Default refresh age (DFT_REFRESH_AGE) = 0
 Number of frequent values retained (NUM_FREQVALUES) = 10
 Number of quantiles retained (NUM_QUANTILES) = 20
 Backup pending = NO
 Database is consistent = YES
 Rollforward pending = NO
 Restore pending = NO
 Multi-page file allocation enabled = NO
 Log retain for recovery status = RECOVERY
 User exit for logging status = NO
 Data Links Token Expiry Interval (sec) (DL_EXPINT) = 60
 Data Links Number of Copies (DL_NUM_COPIES) = 1
 Data Links Time after Drop (days) (DL_TIME_DROP) = 1
 Data Links Token in Uppercase (DL_UPPER) = NO
 Data Links Token Algorithm (DL_TOKEN) = MAC0
 Database heap (4KB) (DBHEAP) = 4096
 Catalog cache size (4KB) (CATALOGCACHE_SZ) = 64
 Log buffer size (4KB) (LOGBUFSZ) = 512
 Utilities heap size (4KB) (UTIL_HEAP_SZ) = 512
 Buffer pool size (pages) (BUFFPAGE) = 256
 Extended storage segments size (4KB) (ESTORE_SEG_SZ) = 16000
 Number of extended storage segments (NUM_ESTORE_SEGS) = 0
 Max storage for lock list (4KB) (LOCKLIST) = 2000
 Max appl. control heap size (4KB) (APP_CTL_HEAP_SZ) = 512
 Sort list heap (4KB) (SORTHEAP) = 1024
 SQL statement heap (4KB) (STMTHEAP) = 2048
 Default application heap (4KB) (APPLHEAPSZ) = 12800
 Package cache size (4KB) (PCKCACHESZ) = 2560
 Statistics heap size (4KB) (STAT_HEAP_SZ) = 5000
 Interval for checking deadlock (ms) (DLCHKTIME) = 10000
 Percent. of lock lists per application (MAXLOCKS) = 90
 Lock timeout (sec) (LOCKTIMEOUT) = -1
 Changed pages threshold (CHNGPGS_THRESH) = 60
 Number of asynchronous page cleaners (NUM_IOCLEANERS) = 16
 Number of I/O servers (NUM_IOSERVERS) = 1
 Index sort flag (INDEXSORT) = YES
 Sequential detect flag (SEQDETECT) = NO
 Default prefetch size (pages) (DFT_PREFETCH_SZ) = 0
 Default number of containers = 1
 Default tablespace extentsize (pages) (DFT_EXTENT_SZ) = 8
 Max number of active applications (MAXAPPLS) = 3000
 Average number of active applications (AVG_APPLS) = 1000
 Max DB files open per application (MAXFILOP) = 600
 Log file size (4KB) (LOGFILSZ) = 50000
 Number of primary log files (LOGPRIMARY) = 20
 Number of secondary log files (LOGSECOND) = 0
 Changed path to log files (NEWLOGPATH) =
 Path to log files = \\PhysicalDrive1Partition1
 First active log file = S0000061.LOG
 Group commit count (MINCOMMIT) = 3
 Percent log file reclaimed before soft ckpt (SOFTMAX) = 600
 Log retain for recovery enabled (LOGRETAIN) = RECOVERY
 User exit for logging enabled (USEREXIT) = OFF
 Auto restart enabled (AUTORESTART) = ON
 Index re-creation time (INDEXREC) = SYSTEM (ACCESS)
 Default number of loadrec sessions (DFT_LOADREC_SES) = 1
 Number of database backups to retain (NUM_DB_BACKUPS) = 12
 Recovery history retention (days) (REC_HIS_RETENTN) = 366
 TSM management class (TSM_MGMTCLASS) =
 TSM node name (TSM_NODENAME) =
 TSM owner (TSM_OWNER) =
 TSM password (TSM_PASSWORD) =

Additional Database Configuration Performed on Nodes 1-32

```

db2set DB2_OVERRIDE_BPF=1024

db2 create bufferpool bp1 NODEGROUP tpccgroup size 398000
db2 create bufferpool bp2 NODEGROUP tpccgroup size 132000

db2 alter tablespace item1          bufferpool bp1
db2 alter tablespace hist          bufferpool bp1
db2 alter tablespace ornu          bufferpool bp1
db2 alter tablespace wdi           bufferpool bp1
db2 alter tablespace order_line_data bufferpool bp1
db2 alter tablespace order_line_index bufferpool bp1
db2 alter tablespace customer_index bufferpool bp1
db2 alter tablespace stock_index   bufferpool bp1

db2 alter tablespace customer      bufferpool bp2
db2 alter tablespace stock         bufferpool bp2

db2 alter tablespace TEMPORARY bufferpool ibmdefaultbp

db2 alter bufferpool ibmdefaultbp size -1

db2 drop bufferpool bp_temp
set RAH_DO_ALL_LOGICAL_NODES=YES
rah "<<<-0< db2 update db cfg for %TPCC_DBNAME% using buffpage 256"
db2stop

db2set DB2_OVERRIDE_BPF=
  
```

Additional Database Configuration Performed on Node 1

```

db2set DB2_OVERRIDE_BPF=1024

db2 alter bufferpool bp1 NODE 1 size 390000
db2 alter bufferpool bp2 NODE 1 size 130000

db2stop

db2set DB2_OVERRIDE_BPF=
  
```

DB2 Registry Setting for All Nodes

```

[e] DB2PATH=C:\SQLLIB
[i] DB2_APM_PERFORMANCE=all
[i] DB2_ENABLE_BUFPD=ON
[i] DB2_SELECTIVITY=YES
[i] DB2_INDEX_DMSCALLBACK=YES
[i] DB2NTMEMSIZE=DBMS:80000000
[i] DB2_BINSORT=on
[i] DB2INSTOWNER=FSNODE01
[i] DB2PORTRANGE=50010:50013
[i] DB2CHKSQlda=NO
[i] DB2TEMPDIR=c:\TMP
[i] DB2NTNOCACHE=ON
[i] DB2INSTPROF=\\FSNODE01\DB2-TPCC
[i] DB2COMM=tcPIP
[g] DB2SYSTEM=FSNODE01
[g] DB2PATH=C:\SQLLIB
[g] DB2INSTDEF=TPCC
[g] DB2COMM=TCPIP,NPIPE
[g] DB2ADMINSERVER=DB2DAS00
[g] DB2CCMSRV=50008
  
```


RTE Input Parameters

The text version of the Benchcraft profile shown below does not show the correct number of users per driver. Benchcraft was modified slightly to accommodate the large number of users in this test. Benchcraft was also modified to recognize that DB2's hash partitioning does not partition a contiguous range of warehouses to a node, nor do the nodes get an exactly even amount of warehouses. The number of users per driver is listed below; this information was taken from the run data that the auditor reviewed. Also included is the warehouse file that Benchcraft uses to assign warehouses to drivers.

Profile: 36864wh
File Path: C:\Benchcraft\36864wh.pro
Version: 2

Number of Engines: 576

Name: FSRTE01A
Description: 01A
Directory:
c:\rtelogs\log01A.log
Machine: FSRTE01
Parameter Set: PARAM2
Index: 0
Seed: 46329
Configured Users: 368640
Pipe Name:

FSRTE01A445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE01B
Description: 01B
Directory:
c:\rtelogs\log01B.log
Machine: FSRTE01
Parameter Set: PARAM2
Index: 3000000
Seed: 46329
Configured Users: 368640
Pipe Name:

FSRTE01B445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE01C
Description: 01C
Directory:
c:\rtelogs\log01C.log
Machine: FSRTE01
Parameter Set: PARAM2
Index: 6000000
Seed: 46329
Configured Users: 368640

Pipe Name:
FSRTE01C445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE01D
Description: 01D
Directory:
c:\rtelogs\log01D.log
Machine: FSRTE01
Parameter Set: PARAM2
Index: 9000000
Seed: 46329
Configured Users: 368640
Pipe Name:

FSRTE01D445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE01E
Description: 01E
Directory:
c:\rtelogs\log01E.log
Machine: FSRTE01
Parameter Set: PARAM2
Index: 12000000
Seed: 46329
Configured Users: 368640
Pipe Name:

FSRTE01E445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE01F
Description: 01F
Directory:
c:\rtelogs\log01F.log
Machine: FSRTE01
Parameter Set: PARAM2
Index: 15000000
Seed: 46329
Configured Users: 368640
Pipe Name:

FSRTE01F445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE02A
Description: 02A
Directory:
c:\rtelogs\log02A.log
Machine: FSRTE02

Parameter Set: PARAM2
Index: 18000000
Seed: 46329
Configured Users: 368640
Pipe Name:

FSRTE02A445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE02B
Description: 02B
Directory:
c:\rtelogs\log02B.log
Machine: FSRTE02
Parameter Set: PARAM2
Index: 21000000
Seed: 46329
Configured Users: 368640
Pipe Name:

FSRTE02B445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE02C
Description: 02C
Directory:
c:\rtelogs\log02C.log
Machine: FSRTE02
Parameter Set: PARAM2
Index: 24000000
Seed: 46329
Configured Users: 368640
Pipe Name:

FSRTE02C445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE02D
Description: 02D
Directory:
c:\rtelogs\log02D.log
Machine: FSRTE02
Parameter Set: PARAM2
Index: 27000000
Seed: 46329
Configured Users: 368640
Pipe Name:

FSRTE02D445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE02E

c:\rtelogs\log02E.log	Description: 02E Directory: Machine: FSRTE02 Parameter Set: PARAM2 Index: 30000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE02E445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log03C.log	CLIENT_NURAND: 257 CPU: 1 Name: FSRTE03C Description: 03C Directory: Machine: FSRTE03 Parameter Set: PARAM2 Index: 42000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE03C445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log04A.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE04A Description: 04A Directory: Machine: FSRTE04 Parameter Set: PARAM2 Index: 54000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE04A445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log02F.log	Name: FSRTE02F Description: 02F Directory: Machine: FSRTE02 Parameter Set: PARAM2 Index: 33000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE02F445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log03D.log	Name: FSRTE03D Description: 03D Directory: Machine: FSRTE03 Parameter Set: PARAM2 Index: 45000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE03D445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log04B.log	Name: FSRTE04B Description: 04B Directory: Machine: FSRTE04 Parameter Set: PARAM2 Index: 57000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE04B445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log03A.log	Name: FSRTE03A Description: 03A Directory: Machine: FSRTE03 Parameter Set: PARAM2 Index: 36000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE03A445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log03E.log	Name: FSRTE03E Description: 03E Directory: Machine: FSRTE03 Parameter Set: PARAM2 Index: 48000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE03E445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log04C.log	Name: FSRTE04C Description: 04C Directory: Machine: FSRTE04 Parameter Set: PARAM2 Index: 60000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE04C445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log03B.log	Name: FSRTE03B Description: 03B Directory: Machine: FSRTE03 Parameter Set: PARAM2 Index: 39000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE03B445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10	c:\rtelogs\log03F.log	Name: FSRTE03F Description: 03F Directory: Machine: FSRTE03 Parameter Set: PARAM2 Index: 51000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE03F445560656	c:\rtelogs\log04D.log	Name: FSRTE04D Description: 04D Directory: Machine: FSRTE04 Parameter Set: PARAM2 Index: 63000000

Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE04D445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE04E Description: 04E Directory: c:\rtelogs\log04E.log Machine: FSRTE04 Parameter Set: PARAM2 Index: 66000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE04E445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE04F Description: 04F Directory: c:\rtelogs\log04F.log Machine: FSRTE04 Parameter Set: PARAM2 Index: 69000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE04F445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE05A Description: 05A Directory: c:\rtelogs\log05A.log Machine: FSRTE05 Parameter Set: PARAM2 Index: 72000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE05A445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE05B Description: 05B	Directory: c:\rtelogs\log05B.log Machine: FSRTE05 Parameter Set: PARAM2 Index: 75000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE05B445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE05C Description: 05C Directory: c:\rtelogs\log05C.log Machine: FSRTE05 Parameter Set: PARAM2 Index: 78000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE05C445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE05D Description: 05D Directory: c:\rtelogs\log05D.log Machine: FSRTE05 Parameter Set: PARAM2 Index: 81000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE05D445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE05E Description: 05E Directory: c:\rtelogs\log05E.log Machine: FSRTE05 Parameter Set: PARAM2 Index: 84000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE05E445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257	CPU: 0 Name: FSRTE05F Description: 05F Directory: c:\rtelogs\log05F.log Machine: FSRTE05 Parameter Set: PARAM2 Index: 87000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE05F445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE06A Description: 06A Directory: c:\rtelogs\log06A.log Machine: FSRTE06 Parameter Set: PARAM2 Index: 90000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE06A445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE06B Description: 06B Directory: c:\rtelogs\log06B.log Machine: FSRTE06 Parameter Set: PARAM2 Index: 93000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE06B445560656 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE06C Description: 06C Directory: c:\rtelogs\log06C.log Machine: FSRTE06 Parameter Set: PARAM2 Index: 96000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE06C445560656 Connect Rate: 160
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c:\rtelogs\log06D.log	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE07A445560656	Configured Users: 368640 Pipe Name:	FSRTE07E445560671	Machine: FSRTE07 Parameter Set: PARAM2 Index: 120000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE06D Description: 06D Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE06D445560656	Machine: FSRTE06 Parameter Set: PARAM2 Index: 99000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log07B.log	Name: FSRTE07B Description: 07B Directory:	c:\rtelogs\log07F.log	Name: FSRTE07F Description: 07F Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE07 Parameter Set: PARAM2 Index: 111000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE07 Parameter Set: PARAM2 Index: 123000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log06E.log	Name: FSRTE06E Description: 06E Directory:	FSRTE07B445560656	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE07F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE06 Parameter Set: PARAM2 Index: 102000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE07C Description: 07C Directory:		Name: FSRTE08A Description: 08A Directory:
FSRTE06E445560656	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log07C.log	Machine: FSRTE07 Parameter Set: PARAM2 Index: 114000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log08A.log	Machine: FSRTE08 Parameter Set: PARAM2 Index: 126000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE06F Description: 06F Directory:		FSRTE07C445560656		FSRTE08A445560671
c:\rtelogs\log06F.log	Machine: FSRTE06 Parameter Set: PARAM2 Index: 105000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE07C445560656	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE08A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Name: FSRTE06F Description: 06F Directory:		Name: FSRTE07D Description: 07D Directory:		Name: FSRTE08B Description: 08B Directory:
FSRTE06F445560656	Machine: FSRTE06 Parameter Set: PARAM2 Index: 105000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log07D.log	Machine: FSRTE07 Parameter Set: PARAM2 Index: 117000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log08B.log	Machine: FSRTE08 Parameter Set: PARAM2 Index: 129000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		FSRTE07D445560656		FSRTE08B445560671
c:\rtelogs\log07A.log	Name: FSRTE07A Description: 07A Directory:	FSRTE07D445560656	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE08B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE07 Parameter Set: PARAM2 Index: 108000000 Seed: 46329		Name: FSRTE07E Description: 07E Directory:		
		c:\rtelogs\log07E.log			

c:\rtelogs\log08C.log	Name: FSRTE08C Description: 08C Directory: Machine: FSRTE08 Parameter Set: PARAM2 Index: 132000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE08C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log09A.log	Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE09A Description: 09A Directory: Machine: FSRTE09 Parameter Set: PARAM2 Index: 144000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE09A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log09E.log	Pipe Name: FSRTE09D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE09E Description: 09E Directory: Machine: FSRTE09 Parameter Set: PARAM2 Index: 156000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE09E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log08D.log	Name: FSRTE08D Description: 08D Directory: Machine: FSRTE08 Parameter Set: PARAM2 Index: 135000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE08D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log09B.log	Name: FSRTE09B Description: 09B Directory: Machine: FSRTE09 Parameter Set: PARAM2 Index: 147000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE09B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log09F.log	Name: FSRTE09F Description: 09F Directory: Machine: FSRTE09 Parameter Set: PARAM2 Index: 159000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE09F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log08E.log	Name: FSRTE08E Description: 08E Directory: Machine: FSRTE08 Parameter Set: PARAM2 Index: 138000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE08E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log09C.log	Name: FSRTE09C Description: 09C Directory: Machine: FSRTE09 Parameter Set: PARAM2 Index: 150000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE09C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log10A.log	Name: FSRTE10A Description: 10A Directory: Machine: FSRTE10 Parameter Set: PARAM2 Index: 162000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE10A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log08F.log	Name: FSRTE08F Description: 08F Directory: Machine: FSRTE08 Parameter Set: PARAM2 Index: 141000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE08F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000	c:\rtelogs\log09D.log	Name: FSRTE09D Description: 09D Directory: Machine: FSRTE09 Parameter Set: PARAM2 Index: 153000000 Seed: 46329 Configured Users: 368640	c:\rtelogs\log10B.log	Name: FSRTE10B Description: 10B Directory: Machine: FSRTE10

Parameter Set: PARAM2 Index: 165000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE10B445560671		Description: 10F Directory: c:\rtelogs\log10F.log Machine: FSRTE10 Parameter Set: PARAM2 Index: 177000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE10F445560671		CLIENT_NURAND: 257 CPU: 0 Name: FSRTE11D Description: 11D Directory: c:\rtelogs\log11D.log Machine: FSRTE11 Parameter Set: PARAM2 Index: 189000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE11D445560671
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE10C Description: 10C Directory: c:\rtelogs\log10C.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE11A Description: 11A Directory: c:\rtelogs\log11A.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE11E Description: 11E Directory: c:\rtelogs\log11E.log
Machine: FSRTE10 Parameter Set: PARAM2 Index: 168000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE10C445560671		Machine: FSRTE11 Parameter Set: PARAM2 Index: 180000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE11A445560671		Machine: FSRTE11 Parameter Set: PARAM2 Index: 192000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE11E445560671
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE10D Description: 10D Directory: c:\rtelogs\log10D.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE11B Description: 11B Directory: c:\rtelogs\log11B.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE11F Description: 11F Directory: c:\rtelogs\log11F.log
Machine: FSRTE10 Parameter Set: PARAM2 Index: 171000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE10D445560671		Machine: FSRTE11 Parameter Set: PARAM2 Index: 183000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE11B445560671		Machine: FSRTE11 Parameter Set: PARAM2 Index: 195000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE11F445560671
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE10E Description: 10E Directory: c:\rtelogs\log10E.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE11C Description: 11C Directory: c:\rtelogs\log11C.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE12A Description: 12A Directory: c:\rtelogs\log12A.log
Machine: FSRTE10 Parameter Set: PARAM2 Index: 174000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE10E445560671		Machine: FSRTE11 Parameter Set: PARAM2 Index: 186000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE11C445560671		Machine: FSRTE12 Parameter Set: PARAM2 Index: 198000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE12A445560671
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE10F		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10		

c:\rtelogs\log12B.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE12E445560671	Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log13C.log	Directory: Machine: FSRTE13 Parameter Set: PARAM2 Index: 222000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE12B Description: 12B Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		FSRTE13C445560671
FSRTE12B445560671	Machine: FSRTE12 Parameter Set: PARAM2 Index: 201000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log12F.log	Name: FSRTE12F Description: 12F Directory:	c:\rtelogs\log13D.log	Name: FSRTE13D Description: 13D Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE12 Parameter Set: PARAM2 Index: 213000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE13 Parameter Set: PARAM2 Index: 225000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log12C.log	Name: FSRTE12C Description: 12C Directory:	FSRTE12F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE13D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE12 Parameter Set: PARAM2 Index: 204000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE13A Description: 13A Directory:		Name: FSRTE13E Description: 13E Directory:
FSRTE12C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log13A.log	Machine: FSRTE13 Parameter Set: PARAM2 Index: 216000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log13E.log	Machine: FSRTE13 Parameter Set: PARAM2 Index: 228000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE12D Description: 12D Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		FSRTE13E445560671
c:\rtelogs\log12D.log	Machine: FSRTE12 Parameter Set: PARAM2 Index: 207000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log13B.log	Name: FSRTE13B Description: 13B Directory:	c:\rtelogs\log13F.log	Machine: FSRTE13 Parameter Set: PARAM2 Index: 231000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE13 Parameter Set: PARAM2 Index: 219000000 Seed: 46329 Configured Users: 368640 Pipe Name:		FSRTE13F445560671
FSRTE12D445560671	Name: FSRTE12E Description: 12E Directory:	FSRTE13B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE13F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257
	Machine: FSRTE12 Parameter Set: PARAM2 Index: 210000000		Name: FSRTE13C Description: 13C		

c:\rtelogs\log14A.log	CPU: 1	c:\rtelogs\log14E.log	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE15B445560671	Configured Users: 368640 Pipe Name:
	Name: FSRTE14A Description: 14A Directory:		Name: FSRTE14E Description: 14E Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE14A445560671	Machine: FSRTE14 Parameter Set: PARAM2 Index: 234000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE14E445560671	Machine: FSRTE14 Parameter Set: PARAM2 Index: 246000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log15C.log	Name: FSRTE15C Description: 15C Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE15 Parameter Set: PARAM2 Index: 258000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log14B.log	Name: FSRTE14B Description: 14B Directory:	c:\rtelogs\log14F.log	Name: FSRTE14F Description: 14F Directory:	FSRTE15C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE14 Parameter Set: PARAM2 Index: 237000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE14 Parameter Set: PARAM2 Index: 249000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE15D Description: 15D Directory:
FSRTE14B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE14F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log15D.log	Machine: FSRTE15 Parameter Set: PARAM2 Index: 261000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE14C Description: 14C Directory:		Name: FSRTE15A Description: 15A Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log14C.log	Machine: FSRTE14 Parameter Set: PARAM2 Index: 240000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log15A.log	Machine: FSRTE15 Parameter Set: PARAM2 Index: 252000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE15D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE14C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Name: FSRTE15E Description: 15E Directory:
	Name: FSRTE14D Description: 14D Directory:	c:\rtelogs\log15B.log	Name: FSRTE15B Description: 15B Directory:	c:\rtelogs\log15E.log	Machine: FSRTE15 Parameter Set: PARAM2 Index: 264000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log14D.log	Machine: FSRTE14 Parameter Set: PARAM2 Index: 243000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE15 Parameter Set: PARAM2 Index: 255000000 Seed: 46329		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE14D445560671	Connect Rate: 160			c:\rtelogs\log15F.log	Name: FSRTE15F Description: 15F Directory:

Machine: FSRTE15 Parameter Set: PARAM2 Index: 267000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Name: FSRTE16D Description: 16D Directory:	Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE15F445560671	c:\rtelogs\log16D.log	c:\rtelogs\log17B.log
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	Machine: FSRTE16 Parameter Set: PARAM2 Index: 279000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Name: FSRTE17B Description: 17B Directory:
	FSRTE16D445560671	Machine: FSRTE17 Parameter Set: PARAM2 Index: 291000000 Seed: 46329 Configured Users: 368640 Pipe Name:
Name: FSRTE16A Description: 16A Directory:	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE17B445560671
c:\rtelogs\log16A.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
Machine: FSRTE16 Parameter Set: PARAM2 Index: 270000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Name: FSRTE16E Description: 16E Directory:	Name: FSRTE17C Description: 17C Directory:
FSRTE16A445560671	c:\rtelogs\log16E.log	c:\rtelogs\log17C.log
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	Machine: FSRTE16 Parameter Set: PARAM2 Index: 282000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Machine: FSRTE17 Parameter Set: PARAM2 Index: 294000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	FSRTE16E445560671	FSRTE17C445560671
Name: FSRTE16B Description: 16B Directory:	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log16B.log		
Machine: FSRTE16 Parameter Set: PARAM2 Index: 273000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Name: FSRTE16F Description: 16F Directory:	Name: FSRTE17D Description: 17D Directory:
FSRTE16B445560671	c:\rtelogs\log16F.log	c:\rtelogs\log17D.log
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	Machine: FSRTE16 Parameter Set: PARAM2 Index: 285000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Machine: FSRTE17 Parameter Set: PARAM2 Index: 297000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	FSRTE16F445560671	FSRTE17D445560671
Name: FSRTE16C Description: 16C Directory:	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log16C.log		
Machine: FSRTE16 Parameter Set: PARAM2 Index: 276000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Name: FSRTE17A Description: 17A Directory:	Name: FSRTE17E Description: 17E Directory:
FSRTE16C445560671	c:\rtelogs\log17A.log	c:\rtelogs\log17E.log
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	Machine: FSRTE17 Parameter Set: PARAM2 Index: 288000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Machine: FSRTE17 Parameter Set: PARAM2 Index: 300000000 Seed: 46329 Configured Users: 368640
	FSRTE17A445560671	
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000	

FSRTE17E445560671	Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE17F Description: 17F Directory: c:\rtelogs\log17F.log Machine: FSRTE17 Parameter Set: PARAM2 Index: 303000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Parameter Set: PARAM2 Index: 312000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE18C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE18D Description: 18D Directory: c:\rtelogs\log18D.log Machine: FSRTE18 Parameter Set: PARAM2 Index: 315000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Description: 19A Directory: c:\rtelogs\log19A.log Machine: FSRTE19 Parameter Set: PARAM2 Index: 324000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE19A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE19B Description: 19B Directory: c:\rtelogs\log19B.log Machine: FSRTE19 Parameter Set: PARAM2 Index: 327000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE17F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE18A Description: 18A Directory: c:\rtelogs\log18A.log Machine: FSRTE18 Parameter Set: PARAM2 Index: 306000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE18E Description: 18E Directory: c:\rtelogs\log18E.log Machine: FSRTE18 Parameter Set: PARAM2 Index: 318000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE18D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE18E Description: 18E Directory: c:\rtelogs\log18E.log Machine: FSRTE18 Parameter Set: PARAM2 Index: 318000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE18A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE18B Description: 18B Directory: c:\rtelogs\log18B.log Machine: FSRTE18 Parameter Set: PARAM2 Index: 309000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE18E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE18F Description: 18F Directory: c:\rtelogs\log18F.log Machine: FSRTE18 Parameter Set: PARAM2 Index: 321000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE19B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE19C Description: 19C Directory: c:\rtelogs\log19C.log Machine: FSRTE19 Parameter Set: PARAM2 Index: 330000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE18B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE18C Description: 18C Directory: c:\rtelogs\log18C.log Machine: FSRTE18	FSRTE18F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE19A	FSRTE19C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE19D Description: 19D Directory: c:\rtelogs\log19D.log Machine: FSRTE19 Parameter Set: PARAM2 Index: 333000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE19D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10

	CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log19E.log	Name: FSRTE19E Description: 19E Directory:		Name: FSRTE20C Description: 20C Directory:		FSRTE20F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE19 Parameter Set: PARAM2 Index: 336000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log20C.log	Machine: FSRTE20 Parameter Set: PARAM2 Index: 348000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE21A Description: 21A Directory:
FSRTE19E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		FSRTE20C445560671		c:\rtelogs\log21A.log Machine: FSRTE21 Parameter Set: PARAM2 Index: 360000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE19F Description: 19F Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		FSRTE21A445560671
c:\rtelogs\log19F.log	Machine: FSRTE19 Parameter Set: PARAM2 Index: 339000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE20D Description: 20D Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE19 Parameter Set: PARAM2 Index: 339000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log20D.log	Machine: FSRTE20 Parameter Set: PARAM2 Index: 351000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE21B Description: 21B Directory:
FSRTE19F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		FSRTE20D445560671		c:\rtelogs\log21B.log Machine: FSRTE21 Parameter Set: PARAM2 Index: 363000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE20A Description: 20A Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		FSRTE21B445560671
c:\rtelogs\log20A.log	Machine: FSRTE20 Parameter Set: PARAM2 Index: 342000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE20E Description: 20E Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE20 Parameter Set: PARAM2 Index: 342000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log20E.log	Machine: FSRTE20 Parameter Set: PARAM2 Index: 354000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE21C Description: 21C Directory:
FSRTE20A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		FSRTE20E445560671		c:\rtelogs\log21C.log Machine: FSRTE21 Parameter Set: PARAM2 Index: 366000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE20B Description: 20B Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		FSRTE21C445560671
c:\rtelogs\log20B.log	Machine: FSRTE20 Parameter Set: PARAM2 Index: 345000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE20F Description: 20F Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE20 Parameter Set: PARAM2 Index: 345000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log20F.log	Machine: FSRTE20 Parameter Set: PARAM2 Index: 357000000		Name: FSRTE21D Description: 21D
FSRTE20B445560671					

c:\rtelogs\log21D.log	Directory: Machine: FSRTE21 Parameter Set: PARAM2 Index: 369000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE21D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE21E Description: 21E Directory:	CPU: 0 Name: FSRTE22B Description: 22B Directory: c:\rtelogs\log22B.log Machine: FSRTE22 Parameter Set: PARAM2 Index: 381000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE22B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE22C Description: 22C Directory: c:\rtelogs\log22C.log Machine: FSRTE22 Parameter Set: PARAM2 Index: 384000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE22C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE22D Description: 22D Directory: c:\rtelogs\log22D.log Machine: FSRTE22 Parameter Set: PARAM2 Index: 387000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE22D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE22E Description: 22E Directory: c:\rtelogs\log22E.log Machine: FSRTE22 Parameter Set: PARAM2 Index: 390000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE22E445560671 Connect Rate: 160	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE22F Description: 22F Directory: c:\rtelogs\log22F.log Machine: FSRTE22 Parameter Set: PARAM2 Index: 393000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE22F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE23A Description: 23A Directory: c:\rtelogs\log23A.log Machine: FSRTE23 Parameter Set: PARAM2 Index: 396000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE23A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE23B Description: 23B Directory: c:\rtelogs\log23B.log Machine: FSRTE23 Parameter Set: PARAM2 Index: 399000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE23B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE23C Description: 23C Directory: c:\rtelogs\log23C.log Machine: FSRTE23 Parameter Set: PARAM2 Index: 402000000 Seed: 46329
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FSRTE23C445560671	Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE23D Description: 23D Directory: c:\rtelogs\log23D.log Machine: FSRTE23 Parameter Set: PARAM2 Index: 405000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE23D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE23E Description: 23E Directory: c:\rtelogs\log23E.log Machine: FSRTE23 Parameter Set: PARAM2 Index: 408000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE23E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE23F Description: 23F Directory: c:\rtelogs\log23F.log Machine: FSRTE23 Parameter Set: PARAM2 Index: 411000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE23F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE24A Description: 24A Directory: c:\rtelogs\log24A.log	Machine: FSRTE24 Parameter Set: PARAM2 Index: 414000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE24A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE24B Description: 24B Directory: c:\rtelogs\log24B.log Machine: FSRTE24 Parameter Set: PARAM2 Index: 417000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE24B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE24C Description: 24C Directory: c:\rtelogs\log24C.log Machine: FSRTE24 Parameter Set: PARAM2 Index: 420000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE24C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE24D Description: 24D Directory: c:\rtelogs\log24D.log Machine: FSRTE24 Parameter Set: PARAM2 Index: 423000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE24D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	Name: FSRTE24E Description: 24E Directory: c:\rtelogs\log24E.log Machine: FSRTE24 Parameter Set: PARAM2 Index: 426000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE24E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE24F Description: 24F Directory: c:\rtelogs\log24F.log Machine: FSRTE24 Parameter Set: PARAM2 Index: 429000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE24F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE25A Description: 25A Directory: c:\rtelogs\log25A.log Machine: FSRTE25 Parameter Set: PARAM2 Index: 432000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE25A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE25B Description: 25B Directory: c:\rtelogs\log25B.log Machine: FSRTE25 Parameter Set: PARAM2 Index: 435000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE25B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000
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c:\rtelogs\log25C.log	Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE25F445560671	Pipe Name:	FSRTE26D445560671	Parameter Set: PARAM2 Index: 459000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE25C Description: 25C Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE25C445560671	Machine: FSRTE25 Parameter Set: PARAM2 Index: 438000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log26A.log	Name: FSRTE26A Description: 26A Directory:	c:\rtelogs\log26E.log	Name: FSRTE26E Description: 26E Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE26 Parameter Set: PARAM2 Index: 450000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE26 Parameter Set: PARAM2 Index: 462000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log25D.log	Name: FSRTE25D Description: 25D Directory:	FSRTE26A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE26E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE25 Parameter Set: PARAM2 Index: 441000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE26B Description: 26B Directory:		Name: FSRTE26F Description: 26F Directory:
FSRTE25D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log26B.log	Machine: FSRTE26 Parameter Set: PARAM2 Index: 453000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log26F.log	Machine: FSRTE26 Parameter Set: PARAM2 Index: 465000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE25E Description: 25E Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log25E.log	Machine: FSRTE25 Parameter Set: PARAM2 Index: 444000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE26B445560671	Name: FSRTE26C Description: 26C Directory:	FSRTE26F445560671	Name: FSRTE27A Description: 27A Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE26 Parameter Set: PARAM2 Index: 456000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE27 Parameter Set: PARAM2 Index: 468000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE25E445560671	Name: FSRTE25F Description: 25F Directory:	c:\rtelogs\log26C.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log27A.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE25 Parameter Set: PARAM2 Index: 447000000 Seed: 46329 Configured Users: 368640		Name: FSRTE26D Description: 26D Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log25F.log	Machine: FSRTE25 Parameter Set: PARAM2 Index: 447000000 Seed: 46329 Configured Users: 368640	c:\rtelogs\log26D.log	Machine: FSRTE26		Name: FSRTE27B

c:\rtelogs\log27B.log	Description: 27B Directory: Machine: FSRTE27 Parameter Set: PARAM2 Index: 471000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE27B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log27F.log	CLIENT_NURAND: 257 CPU: 0 Name: FSRTE27F Description: 27F Directory: Machine: FSRTE27 Parameter Set: PARAM2 Index: 483000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE27F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log28D.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE28D Description: 28D Directory: Machine: FSRTE28 Parameter Set: PARAM2 Index: 495000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE28D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log27C.log	Name: FSRTE27C Description: 27C Directory: Machine: FSRTE27 Parameter Set: PARAM2 Index: 474000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE27C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log28A.log	Name: FSRTE28A Description: 28A Directory: Machine: FSRTE28 Parameter Set: PARAM2 Index: 486000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE28A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log28E.log	Name: FSRTE28E Description: 28E Directory: Machine: FSRTE28 Parameter Set: PARAM2 Index: 498000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE28E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log27D.log	Name: FSRTE27D Description: 27D Directory: Machine: FSRTE27 Parameter Set: PARAM2 Index: 477000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE27D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log28B.log	Name: FSRTE28B Description: 28B Directory: Machine: FSRTE28 Parameter Set: PARAM2 Index: 489000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE28B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log28F.log	Name: FSRTE28F Description: 28F Directory: Machine: FSRTE28 Parameter Set: PARAM2 Index: 501000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE28F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log27E.log	Name: FSRTE27E Description: 27E Directory: Machine: FSRTE27 Parameter Set: PARAM2 Index: 480000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE27E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10	c:\rtelogs\log28C.log	Name: FSRTE28C Description: 28C Directory: Machine: FSRTE28 Parameter Set: PARAM2 Index: 492000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE28C445560671	c:\rtelogs\log29A.log	Name: FSRTE29A Description: 29A Directory: Machine: FSRTE29 Parameter Set: PARAM2 Index: 504000000

Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE29A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE29B Description: 29B Directory: c:\rtelogs\log29B.log Machine: FSRTE29 Parameter Set: PARAM2 Index: 507000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE29B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE29C Description: 29C Directory: c:\rtelogs\log29C.log Machine: FSRTE29 Parameter Set: PARAM2 Index: 510000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE29C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE29D Description: 29D Directory: c:\rtelogs\log29D.log Machine: FSRTE29 Parameter Set: PARAM2 Index: 513000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE29D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE29E Description: 29E	Directory: c:\rtelogs\log29E.log Machine: FSRTE29 Parameter Set: PARAM2 Index: 516000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE29E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE29F Description: 29F Directory: c:\rtelogs\log29F.log Machine: FSRTE29 Parameter Set: PARAM2 Index: 519000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE29F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE30A Description: 30A Directory: c:\rtelogs\log30A.log Machine: FSRTE30 Parameter Set: PARAM2 Index: 522000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE30A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE30B Description: 30B Directory: c:\rtelogs\log30B.log Machine: FSRTE30 Parameter Set: PARAM2 Index: 525000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE30B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257	CPU: 1 Name: FSRTE30C Description: 30C Directory: c:\rtelogs\log30C.log Machine: FSRTE30 Parameter Set: PARAM2 Index: 528000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE30C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE30D Description: 30D Directory: c:\rtelogs\log30D.log Machine: FSRTE30 Parameter Set: PARAM2 Index: 531000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE30D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE30E Description: 30E Directory: c:\rtelogs\log30E.log Machine: FSRTE30 Parameter Set: PARAM2 Index: 534000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE30E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE30F Description: 30F Directory: c:\rtelogs\log30F.log Machine: FSRTE30 Parameter Set: PARAM2 Index: 537000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE30F445560671 Connect Rate: 160
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c:\rtelogs\log31A.log	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE31D445560671	Configured Users: 368640 Pipe Name:	FSRTE32B445560671	Machine: FSRTE32 Parameter Set: PARAM2 Index: 561000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE31A Description: 31A Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE31A445560671	Machine: FSRTE31 Parameter Set: PARAM2 Index: 540000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log31E.log	Name: FSRTE31E Description: 31E Directory:	c:\rtelogs\log32C.log	Name: FSRTE32C Description: 32C Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE31 Parameter Set: PARAM2 Index: 552000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE32 Parameter Set: PARAM2 Index: 564000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log31B.log	Name: FSRTE31B Description: 31B Directory:	FSRTE31E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE32C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE31 Parameter Set: PARAM2 Index: 543000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE31F Description: 31F Directory:		Name: FSRTE32D Description: 32D Directory:
FSRTE31B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log31F.log	Machine: FSRTE31 Parameter Set: PARAM2 Index: 555000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log32D.log	Machine: FSRTE32 Parameter Set: PARAM2 Index: 567000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE31C Description: 31C Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log31C.log	Machine: FSRTE31 Parameter Set: PARAM2 Index: 546000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE31F445560671	Name: FSRTE32A Description: 32A Directory:	FSRTE32D445560671	Name: FSRTE32E Description: 32E Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE32 Parameter Set: PARAM2 Index: 558000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE32 Parameter Set: PARAM2 Index: 570000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE31C445560671	Name: FSRTE31D Description: 31D Directory:	FSRTE32A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE32E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE31 Parameter Set: PARAM2 Index: 549000000 Seed: 46329		Name: FSRTE32B Description: 32B Directory:		
c:\rtelogs\log31D.log		c:\rtelogs\log32B.log			

c:\rtelogs\log32F.log	Name: FSRTE32F Description: 32F Directory: Machine: FSRTE32 Parameter Set: PARAM2 Index: 573000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE32F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE33A Description: 33A Directory: c:\rtelogs\log33A.log Machine: FSRTE33 Parameter Set: PARAM2 Index: 576000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE33A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE33B Description: 33B Directory: c:\rtelogs\log33B.log Machine: FSRTE33 Parameter Set: PARAM2 Index: 579000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE33B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE33C Description: 33C Directory: c:\rtelogs\log33C.log Machine: FSRTE33 Parameter Set: PARAM2 Index: 582000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE33C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000	Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE33D Description: 33D Directory: c:\rtelogs\log33D.log Machine: FSRTE33 Parameter Set: PARAM2 Index: 585000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE33D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE33E Description: 33E Directory: c:\rtelogs\log33E.log Machine: FSRTE33 Parameter Set: PARAM2 Index: 588000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE33E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE33F Description: 33F Directory: c:\rtelogs\log33F.log Machine: FSRTE33 Parameter Set: PARAM2 Index: 591000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE33F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE34A Description: 34A Directory: c:\rtelogs\log34A.log Machine: FSRTE34 Parameter Set: PARAM2 Index: 594000000 Seed: 46329 Configured Users: 368640	Pipe Name: FSRTE34A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE34B Description: 34B Directory: c:\rtelogs\log34B.log Machine: FSRTE34 Parameter Set: PARAM2 Index: 597000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE34B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE34C Description: 34C Directory: c:\rtelogs\log34C.log Machine: FSRTE34 Parameter Set: PARAM2 Index: 600000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE34C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE34D Description: 34D Directory: c:\rtelogs\log34D.log Machine: FSRTE34 Parameter Set: PARAM2 Index: 603000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE34D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE34E Description: 34E Directory: c:\rtelogs\log34E.log Machine: FSRTE34
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FSRTE34E445560671	Parameter Set: PARAM2 Index: 606000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log35C.log	Description: 35C Directory: Machine: FSRTE35 Parameter Set: PARAM2 Index: 618000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log36A.log	CLIENT_NURAND: 257 CPU: 1 Name: FSRTE36A Description: 36A Directory: Machine: FSRTE36 Parameter Set: PARAM2 Index: 630000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log34F.log	Name: FSRTE34F Description: 34F Directory: Machine: FSRTE34 Parameter Set: PARAM2 Index: 609000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE35C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE36A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE34F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log35D.log	Name: FSRTE35D Description: 35D Directory: Machine: FSRTE35 Parameter Set: PARAM2 Index: 621000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log36B.log	Name: FSRTE36B Description: 36B Directory: Machine: FSRTE36 Parameter Set: PARAM2 Index: 633000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log35A.log	Name: FSRTE35A Description: 35A Directory: Machine: FSRTE35 Parameter Set: PARAM2 Index: 612000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE35D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE36B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE35A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log35E.log	Name: FSRTE35E Description: 35E Directory: Machine: FSRTE35 Parameter Set: PARAM2 Index: 624000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log36C.log	Name: FSRTE36C Description: 36C Directory: Machine: FSRTE36 Parameter Set: PARAM2 Index: 636000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log35B.log	Name: FSRTE35B Description: 35B Directory: Machine: FSRTE35 Parameter Set: PARAM2 Index: 615000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE35E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE36C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE35B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log35F.log	Name: FSRTE35F Description: 35F Directory: Machine: FSRTE35 Parameter Set: PARAM2 Index: 627000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log36D.log	Name: FSRTE36D Description: 36D Directory: Machine: FSRTE36 Parameter Set: PARAM2 Index: 639000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE35C	FSRTE35F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10	FSRTE36D445560671	

c:\rtelogs\log36E.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE37B445560671	Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log37F.log	Directory: Machine: FSRTE37 Parameter Set: PARAM2 Index: 663000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE36E Description: 36E Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		FSRTE37F445560671
FSRTE36E445560671	Machine: FSRTE36 Parameter Set: PARAM2 Index: 642000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log37C.log	Name: FSRTE37C Description: 37C Directory:	c:\rtelogs\log38A.log	Name: FSRTE38A Description: 38A Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE37 Parameter Set: PARAM2 Index: 654000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE38 Parameter Set: PARAM2 Index: 666000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log36F.log	Name: FSRTE36F Description: 36F Directory:	FSRTE37C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE38A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE36 Parameter Set: PARAM2 Index: 645000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE37D Description: 37D Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE36F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log37D.log	Machine: FSRTE37 Parameter Set: PARAM2 Index: 657000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log38B.log	Name: FSRTE38B Description: 38B Directory:
	Name: FSRTE37A Description: 37A Directory:		FSRTE37D445560671		Machine: FSRTE38 Parameter Set: PARAM2 Index: 669000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log37A.log	Machine: FSRTE37 Parameter Set: PARAM2 Index: 648000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log37E.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE38B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Name: FSRTE37E Description: 37E Directory:		Name: FSRTE37E Description: 37E Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE37A445560671	Machine: FSRTE37 Parameter Set: PARAM2 Index: 660000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE37E445560671	Machine: FSRTE37 Parameter Set: PARAM2 Index: 660000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log38C.log	Name: FSRTE38C Description: 38C Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE38 Parameter Set: PARAM2 Index: 672000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log37B.log	Name: FSRTE37B Description: 37B Directory:		Name: FSRTE37F Description: 37F	FSRTE38C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257
	Machine: FSRTE37 Parameter Set: PARAM2 Index: 651000000				

Machine: FSRTE40 Parameter Set: PARAM2 Index: 708000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE40C445560671		Name: FSRTE41A Description: 41A Directory: c:\rtelogs\log41A.log		Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE41 Parameter Set: PARAM2 Index: 720000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE41A445560671	c:\rtelogs\log41E.log	Name: FSRTE41E Description: 41E Directory: Machine: FSRTE41 Parameter Set: PARAM2 Index: 732000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE41E445560671
Name: FSRTE40D Description: 40D Directory: c:\rtelogs\log40D.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
Machine: FSRTE40 Parameter Set: PARAM2 Index: 711000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE40D445560671		Name: FSRTE41B Description: 41B Directory: c:\rtelogs\log41B.log		Name: FSRTE41F Description: 41F Directory: c:\rtelogs\log41F.log
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE41 Parameter Set: PARAM2 Index: 723000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE41B445560671		Machine: FSRTE41 Parameter Set: PARAM2 Index: 735000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE41F445560671
Name: FSRTE40E Description: 40E Directory: c:\rtelogs\log40E.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
Machine: FSRTE40 Parameter Set: PARAM2 Index: 714000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE40E445560671		Name: FSRTE41C Description: 41C Directory: c:\rtelogs\log41C.log		Name: FSRTE42A Description: 42A Directory: c:\rtelogs\log42A.log
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE41 Parameter Set: PARAM2 Index: 726000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE41C445560671		Machine: FSRTE42 Parameter Set: PARAM2 Index: 738000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE42A445560671
Name: FSRTE40F Description: 40F Directory: c:\rtelogs\log40F.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
Machine: FSRTE40 Parameter Set: PARAM2 Index: 717000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE40F445560671		Name: FSRTE41D Description: 41D Directory: c:\rtelogs\log41D.log		Name: FSRTE42B Description: 42B Directory: c:\rtelogs\log42B.log
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE41 Parameter Set: PARAM2 Index: 729000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE41D445560671		Machine: FSRTE42 Parameter Set: PARAM2 Index: 741000000 Seed: 46329 Configured Users: 368640
		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000		

FSRTE42B445560671	Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE42C Description: 42C Directory: c:\rtelogs\log42C.log Machine: FSRTE42 Parameter Set: PARAM2 Index: 744000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Parameter Set: PARAM2 Index: 753000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE42F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE43A Description: 43A Directory: c:\rtelogs\log43A.log Machine: FSRTE43 Parameter Set: PARAM2 Index: 756000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Description: 43D Directory: c:\rtelogs\log43D.log Machine: FSRTE43 Parameter Set: PARAM2 Index: 765000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE43D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE43E Description: 43E Directory: c:\rtelogs\log43E.log Machine: FSRTE43 Parameter Set: PARAM2 Index: 768000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE42C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE42D Description: 42D Directory: c:\rtelogs\log42D.log Machine: FSRTE42 Parameter Set: PARAM2 Index: 747000000 Seed: 46329 Configured Users: 368640 Pipe Name:	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE43B Description: 43B Directory: c:\rtelogs\log43B.log Machine: FSRTE43 Parameter Set: PARAM2 Index: 759000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE43E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE43F Description: 43F Directory: c:\rtelogs\log43F.log Machine: FSRTE43 Parameter Set: PARAM2 Index: 771000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE42D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE42E Description: 42E Directory: c:\rtelogs\log42E.log Machine: FSRTE42 Parameter Set: PARAM2 Index: 750000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE43B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE43C Description: 43C Directory: c:\rtelogs\log43C.log Machine: FSRTE43 Parameter Set: PARAM2 Index: 762000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE43F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE44A Description: 44A Directory: c:\rtelogs\log44A.log Machine: FSRTE44 Parameter Set: PARAM2 Index: 774000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE42E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE42F Description: 42F Directory: c:\rtelogs\log42F.log Machine: FSRTE42	FSRTE43C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE43D	FSRTE44A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10

	CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log44B.log	Name: FSRTE44B Description: 44B Directory:		Name: FSRTE44F Description: 44F Directory:		FSRTE45C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE44B445560671	Machine: FSRTE44 Parameter Set: PARAM2 Index: 777000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log44F.log	Machine: FSRTE44 Parameter Set: PARAM2 Index: 789000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE45D Description: 45D Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE44F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		c:\rtelogs\log45D.log Machine: FSRTE45 Parameter Set: PARAM2 Index: 801000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE44C Description: 44C Directory:		Name: FSRTE45A Description: 45A Directory:		FSRTE45D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log44C.log	Machine: FSRTE44 Parameter Set: PARAM2 Index: 780000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log45A.log	Machine: FSRTE45 Parameter Set: PARAM2 Index: 792000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE45E Description: 45E Directory:
FSRTE44C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE45A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		c:\rtelogs\log45E.log Machine: FSRTE45 Parameter Set: PARAM2 Index: 804000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE44D Description: 44D Directory:		Name: FSRTE45B Description: 45B Directory:		FSRTE45E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log44D.log	Machine: FSRTE44 Parameter Set: PARAM2 Index: 783000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log45B.log	Machine: FSRTE45 Parameter Set: PARAM2 Index: 795000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE45F Description: 45F Directory:
FSRTE44D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE45B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		c:\rtelogs\log45F.log Machine: FSRTE45 Parameter Set: PARAM2 Index: 807000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE44E Description: 44E Directory:		Name: FSRTE45C Description: 45C Directory:		FSRTE45F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log44E.log	Machine: FSRTE44 Parameter Set: PARAM2 Index: 786000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log45C.log	Machine: FSRTE45 Parameter Set: PARAM2 Index: 798000000		Name: FSRTE46A Description: 46A
FSRTE44E445560671					

c:\rtelogs\log46A.log	Directory: Machine: FSRTE46 Parameter Set: PARAM2 Index: 810000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE46A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE46B Description: 46B Directory:	CPU: 1 Name: FSRTE46E Description: 46E Directory: c:\rtelogs\log46E.log Machine: FSRTE46 Parameter Set: PARAM2 Index: 822000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE46E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE46F Description: 46F Directory: c:\rtelogs\log46F.log Machine: FSRTE46 Parameter Set: PARAM2 Index: 825000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE46F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE47A Description: 47A Directory: c:\rtelogs\log47A.log Machine: FSRTE47 Parameter Set: PARAM2 Index: 828000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE47A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE47B Description: 47B Directory: c:\rtelogs\log47B.log Machine: FSRTE47 Parameter Set: PARAM2 Index: 831000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE47B445560671 Connect Rate: 160	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE47C Description: 47C Directory: c:\rtelogs\log47C.log Machine: FSRTE47 Parameter Set: PARAM2 Index: 834000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE47C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE47D Description: 47D Directory: c:\rtelogs\log47D.log Machine: FSRTE47 Parameter Set: PARAM2 Index: 837000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE47D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE47E Description: 47E Directory: c:\rtelogs\log47E.log Machine: FSRTE47 Parameter Set: PARAM2 Index: 840000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE47E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE47F Description: 47F Directory: c:\rtelogs\log47F.log Machine: FSRTE47 Parameter Set: PARAM2 Index: 843000000 Seed: 46329
c:\rtelogs\log46B.log	Machine: FSRTE46 Parameter Set: PARAM2 Index: 813000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE46B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE46C Description: 46C Directory:		
c:\rtelogs\log46C.log	Machine: FSRTE46 Parameter Set: PARAM2 Index: 816000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE46C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE46D Description: 46D Directory:		
c:\rtelogs\log46D.log	Machine: FSRTE46 Parameter Set: PARAM2 Index: 819000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE46D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257		

FSRTE47F445560671	Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE48A Description: 48A Directory: c:\rtelogs\log48A.log	Machine: FSRTE48 Parameter Set: PARAM2 Index: 855000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE48E Description: 48E Directory: c:\rtelogs\log48E.log	Name: FSRTE49B Description: 49B Directory: c:\rtelogs\log49B.log
FSRTE48A445560671	Machine: FSRTE48 Parameter Set: PARAM2 Index: 846000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE48B Description: 48B Directory: c:\rtelogs\log48B.log	Machine: FSRTE48 Parameter Set: PARAM2 Index: 858000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE48F Description: 48F Directory: c:\rtelogs\log48F.log	Machine: FSRTE49 Parameter Set: PARAM2 Index: 867000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE49C Description: 49C Directory: c:\rtelogs\log49C.log
FSRTE48B445560671	Machine: FSRTE48 Parameter Set: PARAM2 Index: 849000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE48C Description: 48C Directory: c:\rtelogs\log48C.log	Machine: FSRTE48 Parameter Set: PARAM2 Index: 861000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE49A Description: 49A Directory: c:\rtelogs\log49A.log	Machine: FSRTE49 Parameter Set: PARAM2 Index: 870000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE49D Description: 49D Directory: c:\rtelogs\log49D.log
FSRTE48C445560671	Machine: FSRTE48 Parameter Set: PARAM2 Index: 852000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE48D Description: 48D Directory: c:\rtelogs\log48D.log	Machine: FSRTE48 Parameter Set: PARAM2 Index: 864000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE49E Description: 49E Directory: c:\rtelogs\log49E.log	Machine: FSRTE49 Parameter Set: PARAM2 Index: 873000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE49E Description: 49E Directory: c:\rtelogs\log49E.log
		Machine: FSRTE49 Parameter Set: PARAM2 Index: 876000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000	Machine: FSRTE49 Parameter Set: PARAM2 Index: 876000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000

c:\rtelogs\log49F.log	Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE50C445560671	Pipe Name:	FSRTE51A445560671	Parameter Set: PARAM2 Index: 900000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE49F Description: 49F Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE49F445560671	Machine: FSRTE49 Parameter Set: PARAM2 Index: 879000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log50D.log	Name: FSRTE50D Description: 50D Directory:	c:\rtelogs\log51B.log	Name: FSRTE51B Description: 51B Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE50 Parameter Set: PARAM2 Index: 891000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE51 Parameter Set: PARAM2 Index: 903000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log50A.log	Name: FSRTE50A Description: 50A Directory:	FSRTE50D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE51B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE50 Parameter Set: PARAM2 Index: 882000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE50E Description: 50E Directory:		Name: FSRTE51C Description: 51C Directory:
FSRTE50A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log50E.log	Machine: FSRTE50 Parameter Set: PARAM2 Index: 894000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log51C.log	Machine: FSRTE51 Parameter Set: PARAM2 Index: 906000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE50B Description: 50B Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log50B.log	Machine: FSRTE50 Parameter Set: PARAM2 Index: 885000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE50E445560671	Name: FSRTE50F Description: 50F Directory:	FSRTE51C445560671	Name: FSRTE51D Description: 51D Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE50 Parameter Set: PARAM2 Index: 897000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE51 Parameter Set: PARAM2 Index: 909000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE50B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log50F.log	Name: FSRTE51A Description: 51A Directory:	FSRTE51D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Name: FSRTE50C Description: 50C Directory:		Machine: FSRTE51 Name: FSRTE51E		Name: FSRTE51E
c:\rtelogs\log50C.log	Machine: FSRTE50 Parameter Set: PARAM2 Index: 888000000 Seed: 46329 Configured Users: 368640	c:\rtelogs\log51A.log	Machine: FSRTE51		

c:\rtelogs\log51E.log	Description: 51E Directory: Machine: FSRTE51 Parameter Set: PARAM2 Index: 912000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE51E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE51F Description: 51F Directory:	c:\rtelogs\log52C.log	CLIENT_NURAND: 257 CPU: 1 Name: FSRTE52C Description: 52C Directory: Machine: FSRTE52 Parameter Set: PARAM2 Index: 924000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE52C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE52D Description: 52D Directory:	c:\rtelogs\log53A.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE53A Description: 53A Directory: Machine: FSRTE53 Parameter Set: PARAM2 Index: 936000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE53A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE53B Description: 53B Directory:
c:\rtelogs\log51F.log	Machine: FSRTE51 Parameter Set: PARAM2 Index: 915000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE51F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE52A Description: 52A Directory:	c:\rtelogs\log52D.log	Machine: FSRTE52 Parameter Set: PARAM2 Index: 927000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE52D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE52E Description: 52E Directory:	c:\rtelogs\log53B.log	Machine: FSRTE53 Parameter Set: PARAM2 Index: 939000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE53B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE53C Description: 53C Directory:
c:\rtelogs\log52A.log	Machine: FSRTE52 Parameter Set: PARAM2 Index: 918000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE52A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE52B Description: 52B Directory:	c:\rtelogs\log52E.log	Machine: FSRTE52 Parameter Set: PARAM2 Index: 930000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE52E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE52F Description: 52F Directory:	c:\rtelogs\log53C.log	Machine: FSRTE53 Parameter Set: PARAM2 Index: 942000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE53C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE53D Description: 53D Directory:
c:\rtelogs\log52B.log	Machine: FSRTE52 Parameter Set: PARAM2 Index: 921000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE52B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE52B Description: 52B Directory:	c:\rtelogs\log52F.log	Machine: FSRTE52 Parameter Set: PARAM2 Index: 933000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE52F445560671	c:\rtelogs\log53D.log	Machine: FSRTE53 Parameter Set: PARAM2 Index: 945000000

Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE53D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE53E Description: 53E Directory: c:\rtelogs\log53E.log Machine: FSRTE53 Parameter Set: PARAM2 Index: 948000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE53E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE53F Description: 53F Directory: c:\rtelogs\log53F.log Machine: FSRTE53 Parameter Set: PARAM2 Index: 951000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE53F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE54A Description: 54A Directory: c:\rtelogs\log54A.log Machine: FSRTE54 Parameter Set: PARAM2 Index: 954000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE54A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE54B Description: 54B	Directory: c:\rtelogs\log54B.log Machine: FSRTE54 Parameter Set: PARAM2 Index: 957000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE54B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE54C Description: 54C Directory: c:\rtelogs\log54C.log Machine: FSRTE54 Parameter Set: PARAM2 Index: 960000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE54C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE54D Description: 54D Directory: c:\rtelogs\log54D.log Machine: FSRTE54 Parameter Set: PARAM2 Index: 963000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE54D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE54E Description: 54E Directory: c:\rtelogs\log54E.log Machine: FSRTE54 Parameter Set: PARAM2 Index: 966000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE54E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257	CPU: 0 Name: FSRTE54F Description: 54F Directory: c:\rtelogs\log54F.log Machine: FSRTE54 Parameter Set: PARAM2 Index: 969000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE54F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE55A Description: 55A Directory: c:\rtelogs\log55A.log Machine: FSRTE55 Parameter Set: PARAM2 Index: 972000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE55A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE55B Description: 55B Directory: c:\rtelogs\log55B.log Machine: FSRTE55 Parameter Set: PARAM2 Index: 975000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE55B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE55C Description: 55C Directory: c:\rtelogs\log55C.log Machine: FSRTE55 Parameter Set: PARAM2 Index: 978000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE55C445560671 Connect Rate: 160
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	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Configured Users: 368640 Pipe Name:		Machine: FSRTE56 Parameter Set: PARAM2 Index: 1002000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log55D.log	Name: FSRTE55D Description: 55D Directory:	FSRTE56A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE56E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE55 Parameter Set: PARAM2 Index: 981000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log56B.log	Name: FSRTE56B Description: 56B Directory:		Name: FSRTE56F Description: 56F Directory:
FSRTE55D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE56 Parameter Set: PARAM2 Index: 993000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log56F.log	Machine: FSRTE56 Parameter Set: PARAM2 Index: 1005000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE55E Description: 55E Directory:	FSRTE56B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE56F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log55E.log	Machine: FSRTE55 Parameter Set: PARAM2 Index: 984000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log56C.log	Name: FSRTE56C Description: 56C Directory:		Name: FSRTE57A Description: 57A Directory:
FSRTE55E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE56 Parameter Set: PARAM2 Index: 996000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log57A.log	Machine: FSRTE57 Parameter Set: PARAM2 Index: 1008000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE55F Description: 55F Directory:	FSRTE56C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE57A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log55F.log	Machine: FSRTE55 Parameter Set: PARAM2 Index: 987000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log56D.log	Name: FSRTE56D Description: 56D Directory:		Name: FSRTE57B Description: 57B Directory:
FSRTE55F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE56 Parameter Set: PARAM2 Index: 999000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log57B.log	Machine: FSRTE57 Parameter Set: PARAM2 Index: 1011000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE56A Description: 56A Directory:	FSRTE56D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE57B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log56A.log	Machine: FSRTE56 Parameter Set: PARAM2 Index: 990000000 Seed: 46329		Name: FSRTE56E Description: 56E Directory:		
		c:\rtelogs\log56E.log			

c:\rtelogs\log57C.log	Name: FSRTE57C Description: 57C Directory: Machine: FSRTE57 Parameter Set: PARAM2 Index: 1014000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE57C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log58A.log	Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE58A Description: 58A Directory: Machine: FSRTE58 Parameter Set: PARAM2 Index: 1026000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE58A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log58E.log	Pipe Name: FSRTE58D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE58E Description: 58E Directory: Machine: FSRTE58 Parameter Set: PARAM2 Index: 1038000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE58E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log57D.log	Name: FSRTE57D Description: 57D Directory: Machine: FSRTE57 Parameter Set: PARAM2 Index: 1017000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE57D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log58B.log	Name: FSRTE58B Description: 58B Directory: Machine: FSRTE58 Parameter Set: PARAM2 Index: 1029000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE58B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log58F.log	Name: FSRTE58F Description: 58F Directory: Machine: FSRTE58 Parameter Set: PARAM2 Index: 1041000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE58F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log57E.log	Name: FSRTE57E Description: 57E Directory: Machine: FSRTE57 Parameter Set: PARAM2 Index: 1020000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE57E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log58C.log	Name: FSRTE58C Description: 58C Directory: Machine: FSRTE58 Parameter Set: PARAM2 Index: 1032000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE58C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log59A.log	Name: FSRTE59A Description: 59A Directory: Machine: FSRTE59 Parameter Set: PARAM2 Index: 1044000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE59A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log57F.log	Name: FSRTE57F Description: 57F Directory: Machine: FSRTE57 Parameter Set: PARAM2 Index: 1023000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE57F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000	c:\rtelogs\log58D.log	Name: FSRTE58D Description: 58D Directory: Machine: FSRTE58 Parameter Set: PARAM2 Index: 1035000000 Seed: 46329 Configured Users: 368640	c:\rtelogs\log59B.log	Name: FSRTE59B Description: 59B Directory: Machine: FSRTE59

Parameter Set: PARAM2 Index: 1047000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE59B445560671		Description: 59F Directory: c:\rtelogs\log59F.log Machine: FSRTE59 Parameter Set: PARAM2 Index: 1059000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE59F445560671		CLIENT_NURAND: 257 CPU: 0 Name: FSRTE60D Description: 60D Directory: c:\rtelogs\log60D.log Machine: FSRTE60 Parameter Set: PARAM2 Index: 1071000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE60D445560671
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE59C Description: 59C Directory: c:\rtelogs\log59C.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE60A Description: 60A Directory: c:\rtelogs\log60A.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE60E Description: 60E Directory: c:\rtelogs\log60E.log
Machine: FSRTE59 Parameter Set: PARAM2 Index: 1050000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE59C445560671		Machine: FSRTE60 Parameter Set: PARAM2 Index: 1062000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE60A445560671		Machine: FSRTE60 Parameter Set: PARAM2 Index: 1074000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE60E445560671
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE59D Description: 59D Directory: c:\rtelogs\log59D.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE60B Description: 60B Directory: c:\rtelogs\log60B.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE60F Description: 60F Directory: c:\rtelogs\log60F.log
Machine: FSRTE59 Parameter Set: PARAM2 Index: 1053000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE59D445560671		Machine: FSRTE60 Parameter Set: PARAM2 Index: 1065000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE60B445560671		Machine: FSRTE60 Parameter Set: PARAM2 Index: 1077000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE60F445560671
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE59E Description: 59E Directory: c:\rtelogs\log59E.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE60C Description: 60C Directory: c:\rtelogs\log60C.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE61A Description: 61A Directory: c:\rtelogs\log61A.log
Machine: FSRTE59 Parameter Set: PARAM2 Index: 1056000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE59E445560671		Machine: FSRTE60 Parameter Set: PARAM2 Index: 1068000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE60C445560671		Machine: FSRTE61 Parameter Set: PARAM2 Index: 1080000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE61A445560671
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE59F		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10		

c:\rtelogs\log61B.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE61E445560671	Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log62C.log	Directory: Machine: FSRTE62 Parameter Set: PARAM2 Index: 1104000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE61B Description: 61B Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		FSRTE62C445560671
FSRTE61B445560671	Machine: FSRTE61 Parameter Set: PARAM2 Index: 1083000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log61F.log	Name: FSRTE61F Description: 61F Directory:	c:\rtelogs\log62D.log	Name: FSRTE62D Description: 62D Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE61F445560671	Machine: FSRTE61 Parameter Set: PARAM2 Index: 1095000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE62 Parameter Set: PARAM2 Index: 1107000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log61C.log	Name: FSRTE61C Description: 61C Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE62D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE61 Parameter Set: PARAM2 Index: 1086000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log62A.log	Name: FSRTE62A Description: 62A Directory:	c:\rtelogs\log62E.log	Name: FSRTE62E Description: 62E Directory:
FSRTE61C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE62A445560671	Machine: FSRTE62 Parameter Set: PARAM2 Index: 1098000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE62 Parameter Set: PARAM2 Index: 1110000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE61D Description: 61D Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE62E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log61D.log	Machine: FSRTE61 Parameter Set: PARAM2 Index: 1089000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log62B.log	Name: FSRTE62B Description: 62B Directory:	c:\rtelogs\log62F.log	Name: FSRTE62F Description: 62F Directory:
FSRTE61D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE62B445560671	Machine: FSRTE62 Parameter Set: PARAM2 Index: 1101000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE62 Parameter Set: PARAM2 Index: 1113000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE61E Description: 61E Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE62F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257
c:\rtelogs\log61E.log	Machine: FSRTE61 Parameter Set: PARAM2 Index: 1092000000		Name: FSRTE62C Description: 62C		

c:\rtelogs\log63A.log	CPU: 1	c:\rtelogs\log63E.log	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE64B445560671	Configured Users: 368640 Pipe Name:
	Name: FSRTE63A Description: 63A Directory:		Name: FSRTE63E Description: 63E Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE63A445560671	Machine: FSRTE63 Parameter Set: PARAM2 Index: 1116000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE63E445560671	Machine: FSRTE63 Parameter Set: PARAM2 Index: 1128000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log64C.log	Name: FSRTE64C Description: 64C Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE64 Parameter Set: PARAM2 Index: 1140000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log63B.log	Name: FSRTE63B Description: 63B Directory:	c:\rtelogs\log63F.log	Name: FSRTE63F Description: 63F Directory:	FSRTE64C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE63 Parameter Set: PARAM2 Index: 1119000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE63 Parameter Set: PARAM2 Index: 1131000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE64D Description: 64D Directory:
FSRTE63B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE63F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log64D.log	Machine: FSRTE64 Parameter Set: PARAM2 Index: 1143000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE63C Description: 63C Directory:		Name: FSRTE64A Description: 64A Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log63C.log	Machine: FSRTE63 Parameter Set: PARAM2 Index: 1122000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log64A.log	Machine: FSRTE64 Parameter Set: PARAM2 Index: 1134000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE64D445560671	Name: FSRTE64E Description: 64E Directory:
FSRTE63C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE64 Parameter Set: PARAM2 Index: 1146000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE63D Description: 63D Directory:	c:\rtelogs\log64B.log	Name: FSRTE64B Description: 64B Directory:	FSRTE64E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log63D.log	Machine: FSRTE63 Parameter Set: PARAM2 Index: 1125000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE64 Parameter Set: PARAM2 Index: 1137000000 Seed: 46329		Name: FSRTE64F Description: 64F Directory:
FSRTE63D445560671	Connect Rate: 160			c:\rtelogs\log64F.log	

Machine: FSRTE64 Parameter Set: PARAM2 Index: 1149000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE64F445560671		Name: FSRTE65D Description: 65D Directory: c:\rtelogs\log65D.log		Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE65 Parameter Set: PARAM2 Index: 1161000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE65D445560671		Name: FSRTE66B Description: 66B Directory: c:\rtelogs\log66B.log
Name: FSRTE65A Description: 65A Directory: c:\rtelogs\log65A.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE66 Parameter Set: PARAM2 Index: 1173000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE66B445560671
Machine: FSRTE65 Parameter Set: PARAM2 Index: 1152000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE65A445560671		Name: FSRTE65E Description: 65E Directory: c:\rtelogs\log65E.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE65 Parameter Set: PARAM2 Index: 1164000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE65E445560671		Name: FSRTE66C Description: 66C Directory: c:\rtelogs\log66C.log
Name: FSRTE65B Description: 65B Directory: c:\rtelogs\log65B.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE66 Parameter Set: PARAM2 Index: 1176000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE66C445560671
Machine: FSRTE65 Parameter Set: PARAM2 Index: 1155000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE65B445560671		Name: FSRTE65F Description: 65F Directory: c:\rtelogs\log65F.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE65 Parameter Set: PARAM2 Index: 1167000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE65F445560671		Name: FSRTE66D Description: 66D Directory: c:\rtelogs\log66D.log
Name: FSRTE65C Description: 65C Directory: c:\rtelogs\log65C.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE66 Parameter Set: PARAM2 Index: 1179000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE66D445560671
Machine: FSRTE65 Parameter Set: PARAM2 Index: 1158000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE65C445560671		Name: FSRTE66A Description: 66A Directory: c:\rtelogs\log66A.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE66 Parameter Set: PARAM2 Index: 1170000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE66A445560671		Name: FSRTE66E Description: 66E Directory: c:\rtelogs\log66E.log
		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000		Machine: FSRTE66 Parameter Set: PARAM2 Index: 1182000000 Seed: 46329 Configured Users: 368640

FSRTE66E445560671	Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE66F Description: 66F Directory: c:\rtelogs\log66F.log	Parameter Set: PARAM2 Index: 1194000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE67C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE67D Description: 67D Directory: c:\rtelogs\log67D.log	Description: 68A Directory: c:\rtelogs\log68A.log Machine: FSRTE68 Parameter Set: PARAM2 Index: 1206000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE68A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE68B Description: 68B Directory: c:\rtelogs\log68B.log
FSRTE66F445560671	Machine: FSRTE66 Parameter Set: PARAM2 Index: 1185000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE67A Description: 67A Directory: c:\rtelogs\log67A.log	Machine: FSRTE67 Parameter Set: PARAM2 Index: 1197000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE67D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE67E Description: 67E Directory: c:\rtelogs\log67E.log	Machine: FSRTE68 Parameter Set: PARAM2 Index: 1209000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE68B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE68C Description: 68C Directory: c:\rtelogs\log68C.log
FSRTE67A445560671	Machine: FSRTE67 Parameter Set: PARAM2 Index: 1188000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE67B Description: 67B Directory: c:\rtelogs\log67B.log	Machine: FSRTE67 Parameter Set: PARAM2 Index: 1200000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE67E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE67F Description: 67F Directory: c:\rtelogs\log67F.log	Machine: FSRTE68 Parameter Set: PARAM2 Index: 1212000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE68C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE68D Description: 68D Directory: c:\rtelogs\log68D.log
FSRTE67B445560671	Machine: FSRTE67 Parameter Set: PARAM2 Index: 1191000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE67C Description: 67C Directory: c:\rtelogs\log67C.log	Machine: FSRTE67 Parameter Set: PARAM2 Index: 1203000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE67F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE68A	Machine: FSRTE68 Parameter Set: PARAM2 Index: 1215000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE68D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10

	CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log68E.log	Name: FSRTE68E Description: 68E Directory:		Name: FSRTE69C Description: 69C Directory:		FSRTE69F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE68E445560671	Machine: FSRTE68 Parameter Set: PARAM2 Index: 1218000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log69C.log	Machine: FSRTE69 Parameter Set: PARAM2 Index: 1230000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE70A Description: 70A Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE69C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log70A.log	Machine: FSRTE70 Parameter Set: PARAM2 Index: 1242000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log68F.log	Name: FSRTE68F Description: 68F Directory:		Name: FSRTE69D Description: 69D Directory:		FSRTE70A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE68 Parameter Set: PARAM2 Index: 1221000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log69D.log	Machine: FSRTE69 Parameter Set: PARAM2 Index: 1233000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE70B Description: 70B Directory:
FSRTE68F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE69D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log70B.log	Machine: FSRTE70 Parameter Set: PARAM2 Index: 1245000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE69A Description: 69A Directory:		Name: FSRTE69E Description: 69E Directory:		FSRTE70B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log69A.log	Machine: FSRTE69 Parameter Set: PARAM2 Index: 1224000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log69E.log	Machine: FSRTE69 Parameter Set: PARAM2 Index: 1236000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE70C Description: 70C Directory:
FSRTE69A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE69E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log70C.log	Machine: FSRTE70 Parameter Set: PARAM2 Index: 1248000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE69B Description: 69B Directory:		Name: FSRTE69F Description: 69F Directory:		FSRTE70C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log69B.log	Machine: FSRTE69 Parameter Set: PARAM2 Index: 1227000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log69F.log	Machine: FSRTE69 Parameter Set: PARAM2 Index: 1239000000		Name: FSRTE70D Description: 70D
FSRTE69B445560671					

c:\rtelogs\log70D.log	Directory: Machine: FSRTE70 Parameter Set: PARAM2 Index: 1251000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE70D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE70E Description: 70E Directory:	CPU: 0 Name: FSRTE71B Description: 71B Directory: c:\rtelogs\log71B.log Machine: FSRTE71 Parameter Set: PARAM2 Index: 1263000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE71B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE71C Description: 71C Directory: c:\rtelogs\log71C.log Machine: FSRTE71 Parameter Set: PARAM2 Index: 1266000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE71C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE71D Description: 71D Directory: c:\rtelogs\log71D.log Machine: FSRTE71 Parameter Set: PARAM2 Index: 1269000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE71D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE71E Description: 71E Directory: c:\rtelogs\log71E.log Machine: FSRTE71 Parameter Set: PARAM2 Index: 1272000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE71E445560671 Connect Rate: 160	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE71F Description: 71F Directory: c:\rtelogs\log71F.log Machine: FSRTE71 Parameter Set: PARAM2 Index: 1275000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE71F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE72A Description: 72A Directory: c:\rtelogs\log72A.log Machine: FSRTE72 Parameter Set: PARAM2 Index: 1278000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE72A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE72B Description: 72B Directory: c:\rtelogs\log72B.log Machine: FSRTE72 Parameter Set: PARAM2 Index: 1281000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE72B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE72C Description: 72C Directory: c:\rtelogs\log72C.log Machine: FSRTE72 Parameter Set: PARAM2 Index: 1284000000 Seed: 46329
c:\rtelogs\log70E.log	Machine: FSRTE70 Parameter Set: PARAM2 Index: 1254000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE70E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE70F Description: 70F Directory:		
c:\rtelogs\log70F.log	Machine: FSRTE70 Parameter Set: PARAM2 Index: 1257000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE70F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE71A Description: 71A Directory:		
c:\rtelogs\log71A.log	Machine: FSRTE71 Parameter Set: PARAM2 Index: 1260000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE71A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257		

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	Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Pipe Name: FSRTE74F445560671		Parameter Set: PARAM2 Index: 1341000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log74C.log	Name: FSRTE74C Description: 74C Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		FSRTE75D445560671
	Machine: FSRTE74 Parameter Set: PARAM2 Index: 1320000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log75A.log	Name: FSRTE75A Description: 75A Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE74C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE75 Parameter Set: PARAM2 Index: 1332000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE75E Description: 75E Directory:
	Name: FSRTE74D Description: 74D Directory:	FSRTE75A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log75E.log	Machine: FSRTE75 Parameter Set: PARAM2 Index: 1344000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log74D.log	Machine: FSRTE74 Parameter Set: PARAM2 Index: 1323000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE75B Description: 75B Directory:		FSRTE75E445560671
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log75B.log	Machine: FSRTE75 Parameter Set: PARAM2 Index: 1335000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE74D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log75F.log	Name: FSRTE75F Description: 75F Directory:
	Name: FSRTE74E Description: 74E Directory:	FSRTE75B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE75 Parameter Set: PARAM2 Index: 1347000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log74E.log	Machine: FSRTE74 Parameter Set: PARAM2 Index: 1326000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE75C Description: 75C Directory:		FSRTE75F445560671
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log75C.log	Machine: FSRTE75 Parameter Set: PARAM2 Index: 1338000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE74E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log76A.log	Name: FSRTE76A Description: 76A Directory:
	Name: FSRTE74F Description: 74F Directory:	FSRTE75C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE76 Parameter Set: PARAM2 Index: 1350000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log74F.log	Machine: FSRTE74 Parameter Set: PARAM2 Index: 1329000000 Seed: 46329 Configured Users: 368640		Name: FSRTE75D Description: 75D Directory:		FSRTE76A445560671
		c:\rtelogs\log75D.log	Machine: FSRTE75		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
					Name: FSRTE76B

c:\rtelogs\log76B.log	Description: 76B Directory: Machine: FSRTE76 Parameter Set: PARAM2 Index: 1353000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE76B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log76F.log	CLIENT_NURAND: 257 CPU: 0 Name: FSRTE76F Description: 76F Directory: Machine: FSRTE76 Parameter Set: PARAM2 Index: 1365000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE76F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log77D.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE77D Description: 77D Directory: Machine: FSRTE77 Parameter Set: PARAM2 Index: 1377000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE77D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log76C.log	Name: FSRTE76C Description: 76C Directory: Machine: FSRTE76 Parameter Set: PARAM2 Index: 1356000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE76C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log77A.log	Name: FSRTE77A Description: 77A Directory: Machine: FSRTE77 Parameter Set: PARAM2 Index: 1368000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE77A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log77E.log	Name: FSRTE77E Description: 77E Directory: Machine: FSRTE77 Parameter Set: PARAM2 Index: 1380000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE77E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log76D.log	Name: FSRTE76D Description: 76D Directory: Machine: FSRTE76 Parameter Set: PARAM2 Index: 1359000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE76D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log77B.log	Name: FSRTE77B Description: 77B Directory: Machine: FSRTE77 Parameter Set: PARAM2 Index: 1371000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE77B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log77F.log	Name: FSRTE77F Description: 77F Directory: Machine: FSRTE77 Parameter Set: PARAM2 Index: 1383000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE77F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log76E.log	Name: FSRTE76E Description: 76E Directory: Machine: FSRTE76 Parameter Set: PARAM2 Index: 1362000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE76E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10	c:\rtelogs\log77C.log	Name: FSRTE77C Description: 77C Directory: Machine: FSRTE77 Parameter Set: PARAM2 Index: 1374000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE77C445560671	c:\rtelogs\log78A.log	Name: FSRTE78A Description: 78A Directory: Machine: FSRTE78 Parameter Set: PARAM2 Index: 1386000000

Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE78A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE78B Description: 78B Directory: c:\rtelogs\log78B.log Machine: FSRTE78 Parameter Set: PARAM2 Index: 1389000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE78B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE78C Description: 78C Directory: c:\rtelogs\log78C.log Machine: FSRTE78 Parameter Set: PARAM2 Index: 1392000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE78C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE78D Description: 78D Directory: c:\rtelogs\log78D.log Machine: FSRTE78 Parameter Set: PARAM2 Index: 1395000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE78D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE78E Description: 78E	Directory: c:\rtelogs\log78E.log Machine: FSRTE78 Parameter Set: PARAM2 Index: 1398000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE78E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE78F Description: 78F Directory: c:\rtelogs\log78F.log Machine: FSRTE78 Parameter Set: PARAM2 Index: 1401000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE78F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE79A Description: 79A Directory: c:\rtelogs\log79A.log Machine: FSRTE79 Parameter Set: PARAM2 Index: 1404000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE79A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE79B Description: 79B Directory: c:\rtelogs\log79B.log Machine: FSRTE79 Parameter Set: PARAM2 Index: 1407000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE79B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257	CPU: 1 Name: FSRTE79C Description: 79C Directory: c:\rtelogs\log79C.log Machine: FSRTE79 Parameter Set: PARAM2 Index: 1410000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE79C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE79D Description: 79D Directory: c:\rtelogs\log79D.log Machine: FSRTE79 Parameter Set: PARAM2 Index: 1413000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE79D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE79E Description: 79E Directory: c:\rtelogs\log79E.log Machine: FSRTE79 Parameter Set: PARAM2 Index: 1416000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE79E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE79F Description: 79F Directory: c:\rtelogs\log79F.log Machine: FSRTE79 Parameter Set: PARAM2 Index: 1419000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE79F445560671 Connect Rate: 160
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c:\rtelogs\log80A.log	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE80D445560671	Configured Users: 368640 Pipe Name:	FSRTE81B445560671	Machine: FSRTE81 Parameter Set: PARAM2 Index: 1443000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE80A Description: 80A Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE80A445560671	Machine: FSRTE80 Parameter Set: PARAM2 Index: 1422000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log80E.log	Name: FSRTE80E Description: 80E Directory:	c:\rtelogs\log81C.log	Name: FSRTE81C Description: 81C Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE80 Parameter Set: PARAM2 Index: 1434000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE81 Parameter Set: PARAM2 Index: 1446000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log80B.log	Name: FSRTE80B Description: 80B Directory:	FSRTE80E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE81C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE80 Parameter Set: PARAM2 Index: 1425000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE80F Description: 80F Directory:		Name: FSRTE81D Description: 81D Directory:
FSRTE80B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log80F.log	Machine: FSRTE80 Parameter Set: PARAM2 Index: 1437000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log81D.log	Machine: FSRTE81 Parameter Set: PARAM2 Index: 1449000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE80C Description: 80C Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log80C.log	Machine: FSRTE80 Parameter Set: PARAM2 Index: 1428000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE80F445560671	Name: FSRTE81A Description: 81A Directory:	FSRTE81D445560671	Name: FSRTE81E Description: 81E Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE81 Parameter Set: PARAM2 Index: 1440000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE81 Parameter Set: PARAM2 Index: 1452000000 Seed: 46329 Configured Users: 368640 Pipe Name:
FSRTE80C445560671	Name: FSRTE80D Description: 80D Directory:	FSRTE81A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE81E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE80 Parameter Set: PARAM2 Index: 1431000000 Seed: 46329		Name: FSRTE81B Description: 81B Directory:		
c:\rtelogs\log80D.log		c:\rtelogs\log81B.log			

c:\rtelogs\log81F.log	Name: FSRTE81F Description: 81F Directory: Machine: FSRTE81 Parameter Set: PARAM2 Index: 1455000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE81F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log82D.log	Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE82D Description: 82D Directory: Machine: FSRTE82 Parameter Set: PARAM2 Index: 1467000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE82D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log83B.log	Pipe Name: FSRTE83A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE83B Description: 83B Directory: Machine: FSRTE83 Parameter Set: PARAM2 Index: 1479000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE83B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log82A.log	Name: FSRTE82A Description: 82A Directory: Machine: FSRTE82 Parameter Set: PARAM2 Index: 1458000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE82A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log82E.log	Name: FSRTE82E Description: 82E Directory: Machine: FSRTE82 Parameter Set: PARAM2 Index: 1470000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE82E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log83C.log	Name: FSRTE83C Description: 83C Directory: Machine: FSRTE83 Parameter Set: PARAM2 Index: 1482000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE83C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log82B.log	Name: FSRTE82B Description: 82B Directory: Machine: FSRTE82 Parameter Set: PARAM2 Index: 1461000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE82B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log82F.log	Name: FSRTE82F Description: 82F Directory: Machine: FSRTE82 Parameter Set: PARAM2 Index: 1473000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE82F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log83D.log	Name: FSRTE83D Description: 83D Directory: Machine: FSRTE83 Parameter Set: PARAM2 Index: 1485000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE83D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log82C.log	Name: FSRTE82C Description: 82C Directory: Machine: FSRTE82 Parameter Set: PARAM2 Index: 1464000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE82C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000	c:\rtelogs\log83A.log	Name: FSRTE83A Description: 83A Directory: Machine: FSRTE83 Parameter Set: PARAM2 Index: 1476000000 Seed: 46329 Configured Users: 368640	c:\rtelogs\log83E.log	Name: FSRTE83E Description: 83E Directory: Machine: FSRTE83

FSRTE83E445560671	Parameter Set: PARAM2 Index: 1488000000 Seed: 46329 Configured Users: 368640 Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log84C.log	Description: 84C Directory: Machine: FSRTE84 Parameter Set: PARAM2 Index: 1500000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE85A445560671	CLIENT_NURAND: 257 CPU: 1 Name: FSRTE85A Description: 85A Directory: Machine: FSRTE85 Parameter Set: PARAM2 Index: 1512000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log83F.log	Name: FSRTE83F Description: 83F Directory: Machine: FSRTE83 Parameter Set: PARAM2 Index: 1491000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE84C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE85A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE83F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log84D.log	Name: FSRTE84D Description: 84D Directory: Machine: FSRTE84 Parameter Set: PARAM2 Index: 1503000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log85B.log	Name: FSRTE85B Description: 85B Directory: Machine: FSRTE85 Parameter Set: PARAM2 Index: 1515000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log84A.log	Name: FSRTE84A Description: 84A Directory: Machine: FSRTE84 Parameter Set: PARAM2 Index: 1494000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE84D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE85B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
FSRTE84A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log84E.log	Name: FSRTE84E Description: 84E Directory: Machine: FSRTE84 Parameter Set: PARAM2 Index: 1506000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log85C.log	Name: FSRTE85C Description: 85C Directory: Machine: FSRTE85 Parameter Set: PARAM2 Index: 1518000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log84B.log	Name: FSRTE84B Description: 84B Directory: Machine: FSRTE84 Parameter Set: PARAM2 Index: 1497000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE84E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE85C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE84B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	c:\rtelogs\log84F.log	Name: FSRTE84F Description: 84F Directory: Machine: FSRTE84 Parameter Set: PARAM2 Index: 1509000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log85D.log	Name: FSRTE85D Description: 85D Directory: Machine: FSRTE85 Parameter Set: PARAM2 Index: 1521000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE84C	FSRTE84F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10	FSRTE85D445560671	

c:\rtelogs\log85E.log	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE86B445560671	Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log86F.log	Directory: Machine: FSRTE86 Parameter Set: PARAM2 Index: 1545000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE85E Description: 85E Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		FSRTE86F445560671
FSRTE85E445560671	Machine: FSRTE85 Parameter Set: PARAM2 Index: 1524000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log86C.log	Name: FSRTE86C Description: 86C Directory:	c:\rtelogs\log87A.log	Name: FSRTE87A Description: 87A Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE86C445560671	Machine: FSRTE86 Parameter Set: PARAM2 Index: 1536000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE87 Parameter Set: PARAM2 Index: 1548000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log85F.log	Name: FSRTE85F Description: 85F Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE87A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
	Machine: FSRTE85 Parameter Set: PARAM2 Index: 1527000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log86D.log	Name: FSRTE86D Description: 86D Directory:	c:\rtelogs\log87B.log	Name: FSRTE87B Description: 87B Directory:
FSRTE85F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE86D445560671	Machine: FSRTE86 Parameter Set: PARAM2 Index: 1539000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE87 Parameter Set: PARAM2 Index: 1551000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE86A Description: 86A Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE87B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log86A.log	Machine: FSRTE86 Parameter Set: PARAM2 Index: 1530000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log86E.log	Name: FSRTE86E Description: 86E Directory:	c:\rtelogs\log87C.log	Name: FSRTE87C Description: 87C Directory:
FSRTE86A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE86E445560671	Machine: FSRTE86 Parameter Set: PARAM2 Index: 1542000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE87 Parameter Set: PARAM2 Index: 1554000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE86B Description: 86B Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE87C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257
c:\rtelogs\log86B.log	Machine: FSRTE86 Parameter Set: PARAM2 Index: 1533000000		Name: FSRTE86F Description: 86F		

c:\rtelogs\log87D.log	CPU: 0	c:\rtelogs\log88B.log	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE88E445560671	Configured Users: 368640 Pipe Name:
	Name: FSRTE87D Description: 87D Directory:		Name: FSRTE88B Description: 88B Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE87D445560671	Machine: FSRTE87 Parameter Set: PARAM2 Index: 1557000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE88B445560671	Machine: FSRTE88 Parameter Set: PARAM2 Index: 1569000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log88F.log	Name: FSRTE88F Description: 88F Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE88 Parameter Set: PARAM2 Index: 1581000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log87E.log	Name: FSRTE87E Description: 87E Directory:	c:\rtelogs\log88C.log	Name: FSRTE88C Description: 88C Directory:	FSRTE88F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE87 Parameter Set: PARAM2 Index: 1560000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE88 Parameter Set: PARAM2 Index: 1572000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Name: FSRTE89A Description: 89A Directory:
FSRTE87E445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE88C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	c:\rtelogs\log89A.log	Machine: FSRTE89 Parameter Set: PARAM2 Index: 1584000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE87F Description: 87F Directory:		Name: FSRTE88D Description: 88D Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log87F.log	Machine: FSRTE87 Parameter Set: PARAM2 Index: 1563000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log88D.log	Machine: FSRTE88 Parameter Set: PARAM2 Index: 1575000000 Seed: 46329 Configured Users: 368640 Pipe Name:	FSRTE89A445560671	Name: FSRTE89B Description: 89B Directory:
FSRTE87F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE89 Parameter Set: PARAM2 Index: 1587000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log88A.log	Name: FSRTE88A Description: 88A Directory:	c:\rtelogs\log88E.log	Name: FSRTE88E Description: 88E Directory:	FSRTE89B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE88 Parameter Set: PARAM2 Index: 1566000000 Seed: 46329 Configured Users: 368640 Pipe Name:		Machine: FSRTE88 Parameter Set: PARAM2 Index: 1578000000 Seed: 46329		Name: FSRTE89C Description: 89C Directory:
FSRTE88A445560671	Connect Rate: 160			c:\rtelogs\log89C.log	

Machine: FSRTE89 Parameter Set: PARAM2 Index: 1590000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE89C445560671		Name: FSRTE90A Description: 90A Directory: c:\rtelogs\log90A.log		Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE90 Parameter Set: PARAM2 Index: 1602000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE90A445560671		Name: FSRTE90E Description: 90E Directory: c:\rtelogs\log90E.log
Name: FSRTE89D Description: 89D Directory: c:\rtelogs\log89D.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE90 Parameter Set: PARAM2 Index: 1614000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE90E445560671
Machine: FSRTE89 Parameter Set: PARAM2 Index: 1593000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE89D445560671		Name: FSRTE90B Description: 90B Directory: c:\rtelogs\log90B.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE90 Parameter Set: PARAM2 Index: 1605000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE90B445560671		Name: FSRTE90F Description: 90F Directory: c:\rtelogs\log90F.log
Name: FSRTE89E Description: 89E Directory: c:\rtelogs\log89E.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE90 Parameter Set: PARAM2 Index: 1617000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE90F445560671
Machine: FSRTE89 Parameter Set: PARAM2 Index: 1596000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE89E445560671		Name: FSRTE90C Description: 90C Directory: c:\rtelogs\log90C.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE90 Parameter Set: PARAM2 Index: 1608000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE90C445560671		Name: FSRTE91A Description: 91A Directory: c:\rtelogs\log91A.log
Name: FSRTE89F Description: 89F Directory: c:\rtelogs\log89F.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Machine: FSRTE91 Parameter Set: PARAM2 Index: 1620000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE91A445560671
Machine: FSRTE89 Parameter Set: PARAM2 Index: 1599000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE89F445560671		Name: FSRTE90D Description: 90D Directory: c:\rtelogs\log90D.log		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1		Machine: FSRTE90 Parameter Set: PARAM2 Index: 1611000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE90D445560671		Name: FSRTE91B Description: 91B Directory: c:\rtelogs\log91B.log
		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000		Machine: FSRTE91 Parameter Set: PARAM2 Index: 1623000000 Seed: 46329 Configured Users: 368640

FSRTE91B445560671	Pipe Name: Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE91C Description: 91C Directory: c:\rtelogs\log91C.log Machine: FSRTE91 Parameter Set: PARAM2 Index: 1626000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE91C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE91D Description: 91D Directory: c:\rtelogs\log91D.log Machine: FSRTE91 Parameter Set: PARAM2 Index: 1629000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE91D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE91E Description: 91E Directory: c:\rtelogs\log91E.log Machine: FSRTE91 Parameter Set: PARAM2 Index: 1632000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE91E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE91F Description: 91F Directory: c:\rtelogs\log91F.log Machine: FSRTE91	Parameter Set: PARAM2 Index: 1635000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE91F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE92A Description: 92A Directory: c:\rtelogs\log92A.log Machine: FSRTE92 Parameter Set: PARAM2 Index: 1638000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE92A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE92B Description: 92B Directory: c:\rtelogs\log92B.log Machine: FSRTE92 Parameter Set: PARAM2 Index: 1641000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE92B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE92C Description: 92C Directory: c:\rtelogs\log92C.log Machine: FSRTE92 Parameter Set: PARAM2 Index: 1644000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE92C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE92D	Description: 92D Directory: c:\rtelogs\log92D.log Machine: FSRTE92 Parameter Set: PARAM2 Index: 1647000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE92D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE92E Description: 92E Directory: c:\rtelogs\log92E.log Machine: FSRTE92 Parameter Set: PARAM2 Index: 1650000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE92E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE92F Description: 92F Directory: c:\rtelogs\log92F.log Machine: FSRTE92 Parameter Set: PARAM2 Index: 1653000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE92F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE93A Description: 93A Directory: c:\rtelogs\log93A.log Machine: FSRTE93 Parameter Set: PARAM2 Index: 1656000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE93A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10
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	CLIENT_NURAND: 257 CPU: 0		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0		Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log93B.log	Name: FSRTE93B Description: 93B Directory:		Name: FSRTE93F Description: 93F Directory:	FSRTE94C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
FSRTE93B445560671	Machine: FSRTE93 Parameter Set: PARAM2 Index: 1659000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log93F.log	Machine: FSRTE93 Parameter Set: PARAM2 Index: 1671000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log94D.log	Name: FSRTE94D Description: 94D Directory:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE93F445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE94D445560671	Machine: FSRTE94 Parameter Set: PARAM2 Index: 1683000000 Seed: 46329 Configured Users: 368640 Pipe Name:
c:\rtelogs\log93C.log	Name: FSRTE93C Description: 93C Directory:		Name: FSRTE94A Description: 94A Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
	Machine: FSRTE93 Parameter Set: PARAM2 Index: 1662000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log94A.log	Machine: FSRTE94 Parameter Set: PARAM2 Index: 1674000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log94E.log	Name: FSRTE94E Description: 94E Directory:
FSRTE93C445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE94A445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0	FSRTE94E445560671	Machine: FSRTE94 Parameter Set: PARAM2 Index: 1686000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE93D Description: 93D Directory:		Name: FSRTE94B Description: 94B Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0
c:\rtelogs\log93D.log	Machine: FSRTE93 Parameter Set: PARAM2 Index: 1665000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log94B.log	Machine: FSRTE94 Parameter Set: PARAM2 Index: 1677000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log94F.log	Name: FSRTE94F Description: 94F Directory:
FSRTE93D445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE94B445560671	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1	FSRTE94F445560671	Machine: FSRTE94 Parameter Set: PARAM2 Index: 1689000000 Seed: 46329 Configured Users: 368640 Pipe Name:
	Name: FSRTE93E Description: 93E Directory:		Name: FSRTE94C Description: 94C Directory:		Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1
c:\rtelogs\log93E.log	Machine: FSRTE93 Parameter Set: PARAM2 Index: 1668000000 Seed: 46329 Configured Users: 368640 Pipe Name:	c:\rtelogs\log94C.log	Machine: FSRTE94 Parameter Set: PARAM2 Index: 1680000000		Name: FSRTE95A Description: 95A
FSRTE93E445560671					

c:\rtelogs\log95A.log	Directory: Machine: FSRTE95 Parameter Set: PARAM2 Index: 1692000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE95A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE95B Description: 95B Directory:	CPU: 1 Name: FSRTE95E Description: 95E Directory: c:\rtelogs\log95E.log Machine: FSRTE95 Parameter Set: PARAM2 Index: 1704000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE95E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE95F Description: 95F Directory: c:\rtelogs\log95F.log Machine: FSRTE95 Parameter Set: PARAM2 Index: 1707000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE95F445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE96A Description: 96A Directory: c:\rtelogs\log96A.log Machine: FSRTE96 Parameter Set: PARAM2 Index: 1710000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE96A445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE96B Description: 96B Directory: c:\rtelogs\log96B.log Machine: FSRTE96 Parameter Set: PARAM2 Index: 1713000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE96B445560671 Connect Rate: 160	Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE96C Description: 96C Directory: c:\rtelogs\log96C.log Machine: FSRTE96 Parameter Set: PARAM2 Index: 1716000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE96C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE96D Description: 96D Directory: c:\rtelogs\log96D.log Machine: FSRTE96 Parameter Set: PARAM2 Index: 1719000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE96D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE96E Description: 96E Directory: c:\rtelogs\log96E.log Machine: FSRTE96 Parameter Set: PARAM2 Index: 1722000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE96E445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE96F Description: 96F Directory: c:\rtelogs\log96F.log Machine: FSRTE96 Parameter Set: PARAM2 Index: 1725000000 Seed: 46329
c:\rtelogs\log95B.log	Machine: FSRTE95 Parameter Set: PARAM2 Index: 1695000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE95B445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1 Name: FSRTE95C Description: 95C Directory:		
c:\rtelogs\log95C.log	Machine: FSRTE95 Parameter Set: PARAM2 Index: 1698000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE95C445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 0 Name: FSRTE95D Description: 95D Directory:		
c:\rtelogs\log95D.log	Machine: FSRTE95 Parameter Set: PARAM2 Index: 1701000000 Seed: 46329 Configured Users: 368640 Pipe Name: FSRTE95D445560671 Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257		

FSRTE96F445560671	Configured Users: 368640 Pipe Name:		User Count: 368640 District id: 1 Scale Down: No		User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Connect Rate: 160 Start Rate: 0 Max. Concurrency: 1000 Concurrency Rate: 10 CLIENT_NURAND: 257 CPU: 1				Scale: Normal User Count: 368640 District id: 1 Scale Down: No
	Number of User groups: 576				
36864	Driver Engine: FSRTE01A IIS Server: FSCLIENT01A SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE01E IIS Server: FSCLIENT01E SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE02D IIS Server: FSCLIENT02D SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE01B IIS Server: FSCLIENT01B SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE01F IIS Server: FSCLIENT01F SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE02E IIS Server: FSCLIENT02E SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE01C IIS Server: FSCLIENT01C SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE02A IIS Server: FSCLIENT02A SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE02F IIS Server: FSCLIENT02F SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE01D IIS Server: FSCLIENT01D SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE02B IIS Server: FSCLIENT02B SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE03A IIS Server: FSCLIENT03A SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Scale: Normal		Driver Engine: FSRTE02C IIS Server: FSCLIENT02C SQL Server: FSNODE01CL Database: tpcc	36864	Scale: Normal User Count: 368640

36864	District id: 1 Scale Down: No	36864	Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale Down: No
	Driver Engine: FSRTE03B IIS Server: FSCLIENT03B SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE04E IIS Server: FSCLIENT04E SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE04A IIS Server: FSCLIENT04A SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No
	Driver Engine: FSRTE03C IIS Server: FSCLIENT03C SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE04F IIS Server: FSCLIENT04F SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE04B IIS Server: FSCLIENT04B SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No
	Driver Engine: FSRTE03D IIS Server: FSCLIENT03D SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE05A IIS Server: FSCLIENT05A SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE04C IIS Server: FSCLIENT04C SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No
	Driver Engine: FSRTE03E IIS Server: FSCLIENT03E SQL Server: FSNODE01CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE05B IIS Server: FSCLIENT05B SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE04D IIS Server: FSCLIENT04D SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No
	Driver Engine: FSRTE03F IIS Server: FSCLIENT03F SQL Server: FSNODE01CL Database: tpcc User: tpcc		Scale: Normal User Count: 368640 District id: 1		Driver Engine: FSRTE05C IIS Server: FSCLIENT05C SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML

36864	w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE05D IIS Server: FSCLIENT05D SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE06B IIS Server: FSCLIENT06B SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE06C IIS Server: FSCLIENT06C SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE07A IIS Server: FSCLIENT07A SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE05E IIS Server: FSCLIENT05E SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE06D IIS Server: FSCLIENT06D SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE07B IIS Server: FSCLIENT07B SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE05F IIS Server: FSCLIENT05F SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE06E IIS Server: FSCLIENT06E SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE07C IIS Server: FSCLIENT07C SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE06A IIS Server: FSCLIENT06A SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE06F IIS Server: FSCLIENT06F SQL Server: FSNODE02CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE07D IIS Server: FSCLIENT07D SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No				Scale: Normal User Count: 368640 District id: 1 Scale Down: No

36864	Driver Engine: FSRTE07E IIS Server: FSCLIENT07E SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse:	36864	IIS Server: FSCLIENT09B SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE07F IIS Server: FSCLIENT07F SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE09C IIS Server: FSCLIENT09C SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE08E IIS Server: FSCLIENT08E SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE08A IIS Server: FSCLIENT08A SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE09D IIS Server: FSCLIENT09D SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE08F IIS Server: FSCLIENT08F SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE08B IIS Server: FSCLIENT08B SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE09E IIS Server: FSCLIENT09E SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE09A IIS Server: FSCLIENT09A SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE08C IIS Server: FSCLIENT08C SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE09F IIS Server: FSCLIENT09F SQL Server: FSNODE03CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
	Driver Engine: FSRTE09B		Driver Engine: FSRTE09B		

36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE10A IIS Server: FSCLIENT10A SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT10E SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE10F IIS Server: FSCLIENT10F SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE11D IIS Server: FSCLIENT11D SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE10B IIS Server: FSCLIENT10B SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE11A IIS Server: FSCLIENT11A SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE11E IIS Server: FSCLIENT11E SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE10C IIS Server: FSCLIENT10C SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE11B IIS Server: FSCLIENT11B SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE11F IIS Server: FSCLIENT11F SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE10D IIS Server: FSCLIENT10D SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE11C IIS Server: FSCLIENT11C SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE12A IIS Server: FSCLIENT12A SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE10E				Driver Engine: FSRTE12B

36864	IIS Server: FSCLIENT12B SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE12C IIS Server: FSCLIENT12C SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE12D IIS Server: FSCLIENT12D SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE12E IIS Server: FSCLIENT12E SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE12F IIS Server: FSCLIENT12F SQL Server: FSNODE04CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE13A IIS Server: FSCLIENT13A SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE13B IIS Server: FSCLIENT13B SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE13C IIS Server: FSCLIENT13C SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE13D IIS Server: FSCLIENT13D SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE13E	36864	IIS Server: FSCLIENT13E SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE13F IIS Server: FSCLIENT13F SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE14A IIS Server: FSCLIENT14A SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE14B IIS Server: FSCLIENT14B SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE14C IIS Server: FSCLIENT14C SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE14D IIS Server: FSCLIENT14D SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT15B SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE15C IIS Server: FSCLIENT15C SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE16A IIS Server: FSCLIENT16A SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE14E IIS Server: FSCLIENT14E SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE15D IIS Server: FSCLIENT15D SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE16B IIS Server: FSCLIENT16B SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE14F IIS Server: FSCLIENT14F SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE15E IIS Server: FSCLIENT15E SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE16C IIS Server: FSCLIENT16C SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE15A IIS Server: FSCLIENT15A SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE15F IIS Server: FSCLIENT15F SQL Server: FSNODE05CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE16D IIS Server: FSCLIENT16D SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE15B				Driver Engine: FSRTE16E

36864	IIS Server: FSCLIENT16E SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE16F IIS Server: FSCLIENT16F SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE17A IIS Server: FSCLIENT17A SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE17B IIS Server: FSCLIENT17B SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE17C IIS Server: FSCLIENT17C SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE17D IIS Server: FSCLIENT17D SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE17E IIS Server: FSCLIENT17E SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE17F IIS Server: FSCLIENT17F SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE18A IIS Server: FSCLIENT18A SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE18B	36864	IIS Server: FSCLIENT18B SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE18C IIS Server: FSCLIENT18C SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE18D IIS Server: FSCLIENT18D SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE18E IIS Server: FSCLIENT18E SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE18F IIS Server: FSCLIENT18F SQL Server: FSNODE06CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE19A IIS Server: FSCLIENT19A SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT19E SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE19F IIS Server: FSCLIENT19F SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE20D IIS Server: FSCLIENT20D SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE19B IIS Server: FSCLIENT19B SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE20A IIS Server: FSCLIENT20A SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE20E IIS Server: FSCLIENT20E SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE19C IIS Server: FSCLIENT19C SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE20B IIS Server: FSCLIENT20B SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE20F IIS Server: FSCLIENT20F SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE19D IIS Server: FSCLIENT19D SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE20C IIS Server: FSCLIENT20C SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE21A IIS Server: FSCLIENT21A SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE19E		Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE21B		Driver Engine: FSRTE21B

36864	IIS Server: FSCLIENT21B SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE21C IIS Server: FSCLIENT21C SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE21D IIS Server: FSCLIENT21D SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE21E IIS Server: FSCLIENT21E SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE21F IIS Server: FSCLIENT21F SQL Server: FSNODE07CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE22A IIS Server: FSCLIENT22A SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE22B IIS Server: FSCLIENT22B SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE22C IIS Server: FSCLIENT22C SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE22D IIS Server: FSCLIENT22D SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE22E	36864	IIS Server: FSCLIENT22E SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE22F IIS Server: FSCLIENT22F SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE23A IIS Server: FSCLIENT23A SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE23B IIS Server: FSCLIENT23B SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE23C IIS Server: FSCLIENT23C SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE23D IIS Server: FSCLIENT23D SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT24B SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE24C IIS Server: FSCLIENT24C SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE25A IIS Server: FSCLIENT25A SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE23E IIS Server: FSCLIENT23E SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE24D IIS Server: FSCLIENT24D SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE25B IIS Server: FSCLIENT25B SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE23F IIS Server: FSCLIENT23F SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE24E IIS Server: FSCLIENT24E SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE25C IIS Server: FSCLIENT25C SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE24A IIS Server: FSCLIENT24A SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE24F IIS Server: FSCLIENT24F SQL Server: FSNODE08CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE25D IIS Server: FSCLIENT25D SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE24B				Driver Engine: FSRTE25E

36864	IIS Server: FSCLIENT25E SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	IIS Server: FSCLIENT27B SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE26D IIS Server: FSCLIENT26D SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE25F IIS Server: FSCLIENT25F SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE27C IIS Server: FSCLIENT27C SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE26E IIS Server: FSCLIENT26E SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE26A IIS Server: FSCLIENT26A SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE27D IIS Server: FSCLIENT27D SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE26F IIS Server: FSCLIENT26F SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE26B IIS Server: FSCLIENT26B SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE27E IIS Server: FSCLIENT27E SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE27A IIS Server: FSCLIENT27A SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE26C IIS Server: FSCLIENT26C SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE27F IIS Server: FSCLIENT27F SQL Server: FSNODE09CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
			Driver Engine: FSRTE27B		

36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE28A IIS Server: FSCLIENT28A SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT28E SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE28F IIS Server: FSCLIENT28F SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE29D IIS Server: FSCLIENT29D SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE28B IIS Server: FSCLIENT28B SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE29A IIS Server: FSCLIENT29A SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE29E IIS Server: FSCLIENT29E SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE28C IIS Server: FSCLIENT28C SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE29B IIS Server: FSCLIENT29B SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE29F IIS Server: FSCLIENT29F SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE28D IIS Server: FSCLIENT28D SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE29C IIS Server: FSCLIENT29C SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE30A IIS Server: FSCLIENT30A SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE28E		Driver Engine: FSRTE29D		Driver Engine: FSRTE30B

36864	IIS Server: FSCLIENT30B SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE30C IIS Server: FSCLIENT30C SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE30D IIS Server: FSCLIENT30D SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE30E IIS Server: FSCLIENT30E SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE30F IIS Server: FSCLIENT30F SQL Server: FSNODE10CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE31A IIS Server: FSCLIENT31A SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE31B IIS Server: FSCLIENT31B SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE31C IIS Server: FSCLIENT31C SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE31D IIS Server: FSCLIENT31D SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE31E	36864	IIS Server: FSCLIENT31E SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE31F IIS Server: FSCLIENT31F SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE32A IIS Server: FSCLIENT32A SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE32B IIS Server: FSCLIENT32B SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE32C IIS Server: FSCLIENT32C SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE32D IIS Server: FSCLIENT32D SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT33B SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE33C IIS Server: FSCLIENT33C SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE34A IIS Server: FSCLIENT34A SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE32E IIS Server: FSCLIENT32E SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE33D IIS Server: FSCLIENT33D SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE34B IIS Server: FSCLIENT34B SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE32F IIS Server: FSCLIENT32F SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE33E IIS Server: FSCLIENT33E SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE34C IIS Server: FSCLIENT34C SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE33A IIS Server: FSCLIENT33A SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE33F IIS Server: FSCLIENT33F SQL Server: FSNODE11CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE34D IIS Server: FSCLIENT34D SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE33B		Driver Engine: FSRTE34E		Driver Engine: FSRTE34E

36864	IIS Server: FSCLIENT34E SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE34F IIS Server: FSCLIENT34F SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE35A IIS Server: FSCLIENT35A SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE35B IIS Server: FSCLIENT35B SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE35C IIS Server: FSCLIENT35C SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE35D IIS Server: FSCLIENT35D SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE35E IIS Server: FSCLIENT35E SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE35F IIS Server: FSCLIENT35F SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE36A IIS Server: FSCLIENT36A SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE36B	36864	IIS Server: FSCLIENT36B SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE36C IIS Server: FSCLIENT36C SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE36D IIS Server: FSCLIENT36D SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE36E IIS Server: FSCLIENT36E SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE36F IIS Server: FSCLIENT36F SQL Server: FSNODE12CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE37A IIS Server: FSCLIENT37A SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT37E SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE37F IIS Server: FSCLIENT37F SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE38A IIS Server: FSCLIENT38A SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE38B IIS Server: FSCLIENT38B SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE38C IIS Server: FSCLIENT38C SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE38D IIS Server: FSCLIENT38D SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE38E IIS Server: FSCLIENT38E SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE38F IIS Server: FSCLIENT38F SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE39A IIS Server: FSCLIENT39A SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE39B
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36864	IIS Server: FSCLIENT39B SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE39C IIS Server: FSCLIENT39C SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE39D IIS Server: FSCLIENT39D SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE39E IIS Server: FSCLIENT39E SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE39F IIS Server: FSCLIENT39F SQL Server: FSNODE13CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE40A IIS Server: FSCLIENT40A SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE40B IIS Server: FSCLIENT40B SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE40C IIS Server: FSCLIENT40C SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE40D IIS Server: FSCLIENT40D SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE40E	36864	IIS Server: FSCLIENT40E SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE40F IIS Server: FSCLIENT40F SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE41A IIS Server: FSCLIENT41A SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE41B IIS Server: FSCLIENT41B SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE41C IIS Server: FSCLIENT41C SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE41D IIS Server: FSCLIENT41D SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT42B SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE42C IIS Server: FSCLIENT42C SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE43A IIS Server: FSCLIENT43A SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE41E IIS Server: FSCLIENT41E SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE42D IIS Server: FSCLIENT42D SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE43B IIS Server: FSCLIENT43B SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE41F IIS Server: FSCLIENT41F SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE42E IIS Server: FSCLIENT42E SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE43C IIS Server: FSCLIENT43C SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE42A IIS Server: FSCLIENT42A SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE42F IIS Server: FSCLIENT42F SQL Server: FSNODE14CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE43D IIS Server: FSCLIENT43D SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE42B				Driver Engine: FSRTE43E

36864	IIS Server: FSCLIENT43E SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse:	36864	IIS Server: FSCLIENT45B SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE43F IIS Server: FSCLIENT43F SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE44D IIS Server: FSCLIENT44D SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE45C IIS Server: FSCLIENT45C SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE44A IIS Server: FSCLIENT44A SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE44E IIS Server: FSCLIENT44E SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE45D IIS Server: FSCLIENT45D SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE44B IIS Server: FSCLIENT44B SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE44F IIS Server: FSCLIENT44F SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Driver Engine: FSRTE45E IIS Server: FSCLIENT45E SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE44C IIS Server: FSCLIENT44C SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Driver Engine: FSRTE45A IIS Server: FSCLIENT45A SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Driver Engine: FSRTE45F IIS Server: FSCLIENT45F SQL Server: FSNODE15CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
			Driver Engine: FSRTE45B		

36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE46A IIS Server: FSCLIENT46A SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT46E SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE46F IIS Server: FSCLIENT46F SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE47D IIS Server: FSCLIENT47D SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE46B IIS Server: FSCLIENT46B SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE47A IIS Server: FSCLIENT47A SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE47E IIS Server: FSCLIENT47E SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE46C IIS Server: FSCLIENT46C SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE47B IIS Server: FSCLIENT47B SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE47F IIS Server: FSCLIENT47F SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE46D IIS Server: FSCLIENT46D SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE47C IIS Server: FSCLIENT47C SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE48A IIS Server: FSCLIENT48A SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE46E				Driver Engine: FSRTE48B

36864	IIS Server: FSCLIENT48B SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	IIS Server: FSCLIENT49E SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE49A IIS Server: FSCLIENT49A SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE48C IIS Server: FSCLIENT48C SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE49F IIS Server: FSCLIENT49F SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE49B IIS Server: FSCLIENT49B SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE48D IIS Server: FSCLIENT48D SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE50A IIS Server: FSCLIENT50A SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE49C IIS Server: FSCLIENT49C SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE48E IIS Server: FSCLIENT48E SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE50B IIS Server: FSCLIENT50B SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE49D IIS Server: FSCLIENT49D SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE48F IIS Server: FSCLIENT48F SQL Server: FSNODE16CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE50C IIS Server: FSCLIENT50C SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
			Driver Engine: FSRTE49E		

36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE50D IIS Server: FSCLIENT50D SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT51B SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE51C IIS Server: FSCLIENT51C SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE52A IIS Server: FSCLIENT52A SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE50E IIS Server: FSCLIENT50E SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE51D IIS Server: FSCLIENT51D SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE52B IIS Server: FSCLIENT52B SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE50F IIS Server: FSCLIENT50F SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE51E IIS Server: FSCLIENT51E SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE52C IIS Server: FSCLIENT52C SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE51A IIS Server: FSCLIENT51A SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE51F IIS Server: FSCLIENT51F SQL Server: FSNODE17CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE52D IIS Server: FSCLIENT52D SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE51B				Driver Engine: FSRTE52E

36864	IIS Server: FSCLIENT52E SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	IIS Server: FSCLIENT54B SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE53D IIS Server: FSCLIENT53D SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE52F IIS Server: FSCLIENT52F SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE54C IIS Server: FSCLIENT54C SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE53E IIS Server: FSCLIENT53E SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE53A IIS Server: FSCLIENT53A SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE54D IIS Server: FSCLIENT54D SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE53F IIS Server: FSCLIENT53F SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE53B IIS Server: FSCLIENT53B SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE54E IIS Server: FSCLIENT54E SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE54A IIS Server: FSCLIENT54A SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE53C IIS Server: FSCLIENT53C SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE54F IIS Server: FSCLIENT54F SQL Server: FSNODE18CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
			Driver Engine: FSRTE54B		

36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE55A IIS Server: FSCLIENT55A SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT55E SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE55F IIS Server: FSCLIENT55F SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE56D IIS Server: FSCLIENT56D SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE55B IIS Server: FSCLIENT55B SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE56A IIS Server: FSCLIENT56A SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE56E IIS Server: FSCLIENT56E SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE55C IIS Server: FSCLIENT55C SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE56B IIS Server: FSCLIENT56B SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE56F IIS Server: FSCLIENT56F SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE55D IIS Server: FSCLIENT55D SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE56C IIS Server: FSCLIENT56C SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE57A IIS Server: FSCLIENT57A SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE55E		Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE57B		Driver Engine: FSRTE57B

36864	IIS Server: FSCLIENT57B SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE57C IIS Server: FSCLIENT57C SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE57D IIS Server: FSCLIENT57D SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE57E IIS Server: FSCLIENT57E SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE57F IIS Server: FSCLIENT57F SQL Server: FSNODE19CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE58A IIS Server: FSCLIENT58A SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE58B IIS Server: FSCLIENT58B SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE58C IIS Server: FSCLIENT58C SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE58D IIS Server: FSCLIENT58D SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE58E	36864	IIS Server: FSCLIENT58E SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE58F IIS Server: FSCLIENT58F SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE59A IIS Server: FSCLIENT59A SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE59B IIS Server: FSCLIENT59B SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FS RTE59C IIS Server: FSCLIENT59C SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE59D IIS Server: FSCLIENT59D SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT60B SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE60C IIS Server: FSCLIENT60C SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE61A IIS Server: FSCLIENT61A SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE59E IIS Server: FSCLIENT59E SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE60D IIS Server: FSCLIENT60D SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE61B IIS Server: FSCLIENT61B SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE59F IIS Server: FSCLIENT59F SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE60E IIS Server: FSCLIENT60E SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE61C IIS Server: FSCLIENT61C SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE60A IIS Server: FSCLIENT60A SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE60F IIS Server: FSCLIENT60F SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE61D IIS Server: FSCLIENT61D SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE60B		Driver Engine: FSRTE60F IIS Server: FSCLIENT60F SQL Server: FSNODE20CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE61E

36864	IIS Server: FSCLIENT61E SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	IIS Server: FSCLIENT63B SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE62D IIS Server: FSCLIENT62D SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE61F IIS Server: FSCLIENT61F SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE63C IIS Server: FSCLIENT63C SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE62E IIS Server: FSCLIENT62E SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE62A IIS Server: FSCLIENT62A SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE63D IIS Server: FSCLIENT63D SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE62F IIS Server: FSCLIENT62F SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE62B IIS Server: FSCLIENT62B SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE63E IIS Server: FSCLIENT63E SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE63A IIS Server: FSCLIENT63A SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE62C IIS Server: FSCLIENT62C SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE63F IIS Server: FSCLIENT63F SQL Server: FSNODE21CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
			Driver Engine: FSRTE63B		

36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE64A IIS Server: FSCLIENT64A SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT64E SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE64F IIS Server: FSCLIENT64F SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE65D IIS Server: FSCLIENT65D SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE64B IIS Server: FSCLIENT64B SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE65A IIS Server: FSCLIENT65A SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE65E IIS Server: FSCLIENT65E SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE64C IIS Server: FSCLIENT64C SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE65B IIS Server: FSCLIENT65B SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE65F IIS Server: FSCLIENT65F SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE64D IIS Server: FSCLIENT64D SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE65C IIS Server: FSCLIENT65C SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE66A IIS Server: FSCLIENT66A SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE64E		Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE66B		Driver Engine: FSRTE66B

36864	IIS Server: FSCLIENT66B SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE66C IIS Server: FSCLIENT66C SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE66D IIS Server: FSCLIENT66D SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE66E IIS Server: FSCLIENT66E SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE66F IIS Server: FSCLIENT66F SQL Server: FSNODE22CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE67A IIS Server: FSCLIENT67A SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE67B IIS Server: FSCLIENT67B SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE67C IIS Server: FSCLIENT67C SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE67D IIS Server: FSCLIENT67D SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE67E	36864	IIS Server: FSCLIENT67E SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE67F IIS Server: FSCLIENT67F SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE68A IIS Server: FSCLIENT68A SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE68B IIS Server: FSCLIENT68B SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE68C IIS Server: FSCLIENT68C SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE68D IIS Server: FSCLIENT68D SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT69B SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE69C IIS Server: FSCLIENT69C SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE70A IIS Server: FSCLIENT70A SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE68E IIS Server: FSCLIENT68E SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE69D IIS Server: FSCLIENT69D SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE70B IIS Server: FSCLIENT70B SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE68F IIS Server: FSCLIENT68F SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE69E IIS Server: FSCLIENT69E SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE70C IIS Server: FSCLIENT70C SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE69A IIS Server: FSCLIENT69A SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE69F IIS Server: FSCLIENT69F SQL Server: FSNODE23CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE70D IIS Server: FSCLIENT70D SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE69B		Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE70E		Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE70E

36864	IIS Server: FSCLIENT70E SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	IIS Server: FSCLIENT72B SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE71D IIS Server: FSCLIENT71D SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE70F IIS Server: FSCLIENT70F SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE72C IIS Server: FSCLIENT72C SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE71E IIS Server: FSCLIENT71E SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE71A IIS Server: FSCLIENT71A SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE72D IIS Server: FSCLIENT72D SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE71F IIS Server: FSCLIENT71F SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE71B IIS Server: FSCLIENT71B SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE72E IIS Server: FSCLIENT72E SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE72A IIS Server: FSCLIENT72A SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE71C IIS Server: FSCLIENT71C SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE72F IIS Server: FSCLIENT72F SQL Server: FSNODE24CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
			Driver Engine: FSRTE72B		

36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE73A IIS Server: FSCLIENT73A SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT73E SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE73F IIS Server: FSCLIENT73F SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE74D IIS Server: FSCLIENT74D SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE73B IIS Server: FSCLIENT73B SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE74A IIS Server: FSCLIENT74A SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE74E IIS Server: FSCLIENT74E SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE73C IIS Server: FSCLIENT73C SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE74B IIS Server: FSCLIENT74B SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE74F IIS Server: FSCLIENT74F SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE73D IIS Server: FSCLIENT73D SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE74C IIS Server: FSCLIENT74C SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE75A IIS Server: FSCLIENT75A SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE73E				Driver Engine: FSRTE75B

36864	IIS Server: FSCLIENT75B SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE75C IIS Server: FSCLIENT75C SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE75D IIS Server: FSCLIENT75D SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE75E IIS Server: FSCLIENT75E SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE75F IIS Server: FSCLIENT75F SQL Server: FSNODE25CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE76A IIS Server: FSCLIENT76A SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE76B IIS Server: FSCLIENT76B SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE76C IIS Server: FSCLIENT76C SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE76D IIS Server: FSCLIENT76D SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE76E	36864	IIS Server: FSCLIENT76E SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE76F IIS Server: FSCLIENT76F SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE77A IIS Server: FSCLIENT77A SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE77B IIS Server: FSCLIENT77B SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE77C IIS Server: FSCLIENT77C SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE77D IIS Server: FSCLIENT77D SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT78B SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE78C IIS Server: FSCLIENT78C SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE79A IIS Server: FSCLIENT79A SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE77E IIS Server: FSCLIENT77E SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE78D IIS Server: FSCLIENT78D SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE79B IIS Server: FSCLIENT79B SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE77F IIS Server: FSCLIENT77F SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE78E IIS Server: FSCLIENT78E SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE79C IIS Server: FSCLIENT79C SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE78A IIS Server: FSCLIENT78A SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE78F IIS Server: FSCLIENT78F SQL Server: FSNODE26CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE79D IIS Server: FSCLIENT79D SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE78B		Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE79E		Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE79E

36864	IIS Server: FSCLIENT79E SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	IIS Server: FSCLIENT81B SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE80D IIS Server: FSCLIENT80D SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE79F IIS Server: FSCLIENT79F SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE81C IIS Server: FSCLIENT81C SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE80E IIS Server: FSCLIENT80E SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE80A IIS Server: FSCLIENT80A SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE81D IIS Server: FSCLIENT81D SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE80F IIS Server: FSCLIENT80F SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE80B IIS Server: FSCLIENT80B SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE81E IIS Server: FSCLIENT81E SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE81A IIS Server: FSCLIENT81A SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE80C IIS Server: FSCLIENT80C SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE81F IIS Server: FSCLIENT81F SQL Server: FSNODE27CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
			Driver Engine: FSRTE81B		

36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE82A IIS Server: FSCLIENT82A SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT82E SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE82F IIS Server: FSCLIENT82F SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE83D IIS Server: FSCLIENT83D SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE82B IIS Server: FSCLIENT82B SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE83A IIS Server: FSCLIENT83A SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE83E IIS Server: FSCLIENT83E SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE82C IIS Server: FSCLIENT82C SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE83B IIS Server: FSCLIENT83B SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE83F IIS Server: FSCLIENT83F SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE82D IIS Server: FSCLIENT82D SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE83C IIS Server: FSCLIENT83C SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE84A IIS Server: FSCLIENT84A SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE82E		Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE84B		Driver Engine: FSRTE84B

36864	IIS Server: FSCLIENT84B SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE84C IIS Server: FSCLIENT84C SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE84D IIS Server: FSCLIENT84D SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE84E IIS Server: FSCLIENT84E SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE84F IIS Server: FSCLIENT84F SQL Server: FSNODE28CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE85A IIS Server: FSCLIENT85A SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE85B IIS Server: FSCLIENT85B SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE85C IIS Server: FSCLIENT85C SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE85D IIS Server: FSCLIENT85D SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE85E	36864	IIS Server: FSCLIENT85E SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE85F IIS Server: FSCLIENT85F SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE86A IIS Server: FSCLIENT86A SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE86B IIS Server: FSCLIENT86B SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE86C IIS Server: FSCLIENT86C SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE86D IIS Server: FSCLIENT86D SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT87B SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE87C IIS Server: FSCLIENT87C SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE88A IIS Server: FSCLIENT88A SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE86E IIS Server: FSCLIENT86E SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE87D IIS Server: FSCLIENT87D SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE88B IIS Server: FSCLIENT88B SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE86F IIS Server: FSCLIENT86F SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE87E IIS Server: FSCLIENT87E SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE88C IIS Server: FSCLIENT88C SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE87A IIS Server: FSCLIENT87A SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE87F IIS Server: FSCLIENT87F SQL Server: FSNODE29CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE88D IIS Server: FSCLIENT88D SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE87B				Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE88E

36864	IIS Server: FSCLIENT88E SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE88F IIS Server: FSCLIENT88F SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE89A IIS Server: FSCLIENT89A SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE89B IIS Server: FSCLIENT89B SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE89C IIS Server: FSCLIENT89C SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE89D IIS Server: FSCLIENT89D SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE89E IIS Server: FSCLIENT89E SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE89F IIS Server: FSCLIENT89F SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE90A IIS Server: FSCLIENT90A SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE90B	36864	IIS Server: FSCLIENT90B SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE90C IIS Server: FSCLIENT90C SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE90D IIS Server: FSCLIENT90D SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE90E IIS Server: FSCLIENT90E SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE90F IIS Server: FSCLIENT90F SQL Server: FSNODE30CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
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36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE91A IIS Server: FSCLIENT91A SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT91E SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE91F IIS Server: FSCLIENT91F SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE92D IIS Server: FSCLIENT92D SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE91B IIS Server: FSCLIENT91B SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE92A IIS Server: FSCLIENT92A SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE92E IIS Server: FSCLIENT92E SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE91C IIS Server: FSCLIENT91C SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE92B IIS Server: FSCLIENT92B SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE92F IIS Server: FSCLIENT92F SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE91D IIS Server: FSCLIENT91D SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE92C IIS Server: FSCLIENT92C SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE93A IIS Server: FSCLIENT93A SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE91E				Driver Engine: FSRTE93B

36864	IIS Server: FSCLIENT93B SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	IIS Server: FSCLIENT94E SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE94A IIS Server: FSCLIENT94A SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE93C IIS Server: FSCLIENT93C SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE94F IIS Server: FSCLIENT94F SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE94B IIS Server: FSCLIENT94B SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE93D IIS Server: FSCLIENT93D SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE95A IIS Server: FSCLIENT95A SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE94C IIS Server: FSCLIENT94C SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE93E IIS Server: FSCLIENT93E SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE95B IIS Server: FSCLIENT95B SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:
	Scale: Normal User Count: 368640 District id: 1 Scale Down: No		Driver Engine: FSRTE94D IIS Server: FSCLIENT94D SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		Scale: Normal User Count: 368640 District id: 1 Scale Down: No
36864	Driver Engine: FSRTE93F IIS Server: FSCLIENT93F SQL Server: FSNODE31CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No	36864	Driver Engine: FSRTE95C IIS Server: FSCLIENT95C SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1
			Driver Engine: FSRTE94E		

36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE95D IIS Server: FSCLIENT95D SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	IIS Server: FSCLIENT96B SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE96C IIS Server: FSCLIENT96C SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	w_id Max Warehouse: Scale: Normal User Count: 368640 District id: 1 Scale Down: No Number of Parameter Sets: 2 ~Default Default Parameter Set Txn Think Key RT RT Menu Weight Time Time Delay Fence Delay New Order 10.00 12.05 18.01 0.10 5.00 0.10 Payment 10.00 12.05 3.01 0.10 5.00 0.10 Delivery 1.00 5.05 2.01 0.10 5.00 0.10 Stock Level 1.00 5.05 2.01 0.10 20.00 0.10 Order Status 1.00 10.05 2.01 0.10 5.00 0.10 PARAM2 Editable Default Parameter Set Txn Think Key RT RT Menu Weight Time Time Delay Fence Delay New Order 10.00 12.05 18.01 0.10 5.00 0.10 Payment 9.67 12.05 3.01 0.10 5.00 0.10 Delivery 0.91 5.05 2.01 0.10 5.00 0.10 Stock Level 0.91 5.05 2.01 0.10 20.00 0.10 Order Status 0.91 10.05 2.01 0.10 5.00 0.10
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE95E IIS Server: FSCLIENT95E SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE96D IIS Server: FSCLIENT96D SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE95F IIS Server: FSCLIENT95F SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE96E IIS Server: FSCLIENT96E SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:		
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE96A IIS Server: FSCLIENT96A SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1 w_id Max Warehouse:	36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE96F IIS Server: FSCLIENT96F SQL Server: FSNODE32CL Database: tpcc User: tpcc Protocol: HTML w_id Range: 1 - 36864 w_id Min Warehouse: 1		
36864	Scale: Normal User Count: 368640 District id: 1 Scale Down: No Driver Engine: FSRTE96B				

Users per RTE Driver

FSRTE01A	650	FSRTE09A	640	FSRTE17A	630	FSRTE25A	640
FSRTE01B	650	FSRTE09B	640	FSRTE17B	630	FSRTE25B	640
FSRTE01C	650	FSRTE09C	640	FSRTE17C	630	FSRTE25C	640
FSRTE01D	650	FSRTE09D	640	FSRTE17D	630	FSRTE25D	640
FSRTE01E	650	FSRTE09E	640	FSRTE17E	630	FSRTE25E	640
FSRTE01F	650	FSRTE09F	640	FSRTE17F	630	FSRTE25F	640
FSRTE02A	650	FSRTE10A	650	FSRTE18A	630	FSRTE26A	640
FSRTE02B	650	FSRTE10B	650	FSRTE18B	630	FSRTE26B	640
FSRTE02C	640	FSRTE10C	650	FSRTE18C	630	FSRTE26C	640
FSRTE02D	640	FSRTE10D	650	FSRTE18D	630	FSRTE26D	640
FSRTE02E	640	FSRTE10E	640	FSRTE18E	630	FSRTE26E	630
FSRTE02F	640	FSRTE10F	640	FSRTE18F	630	FSRTE26F	630
FSRTE03A	640	FSRTE11A	640	FSRTE19A	640	FSRTE27A	630
FSRTE03B	640	FSRTE11B	640	FSRTE19B	640	FSRTE27B	630
FSRTE03C	640	FSRTE11C	640	FSRTE19C	640	FSRTE27C	630
FSRTE03D	640	FSRTE11D	640	FSRTE19D	640	FSRTE27D	630
FSRTE03E	640	FSRTE11E	640	FSRTE19E	640	FSRTE27E	630
FSRTE03F	640	FSRTE11F	640	FSRTE19F	640	FSRTE27F	630
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FSRTE04B	650	FSRTE12B	640	FSRTE20B	630	FSRTE28B	640
FSRTE04C	650	FSRTE12C	640	FSRTE20C	630	FSRTE28C	640
FSRTE04D	650	FSRTE12D	640	FSRTE20D	630	FSRTE28D	640
FSRTE04E	650	FSRTE12E	640	FSRTE20E	630	FSRTE28E	640
FSRTE04F	650	FSRTE12F	640	FSRTE20F	630	FSRTE28F	640
FSRTE05A	650	FSRTE13A	650	FSRTE21A	630	FSRTE29A	640
FSRTE05B	650	FSRTE13B	650	FSRTE21B	630	FSRTE29B	640
FSRTE05C	650	FSRTE13C	650	FSRTE21C	630	FSRTE29C	640
FSRTE05D	650	FSRTE13D	650	FSRTE21D	630	FSRTE29D	630
FSRTE05E	640	FSRTE13E	650	FSRTE21E	630	FSRTE29E	630
FSRTE05F	640	FSRTE13F	650	FSRTE21F	630	FSRTE29F	630
FSRTE06A	640	FSRTE14A	650	FSRTE22A	650	FSRTE30A	630
FSRTE06B	640	FSRTE14B	640	FSRTE22B	650	FSRTE30B	630
FSRTE06C	640	FSRTE14C	640	FSRTE22C	650	FSRTE30C	630
FSRTE06D	640	FSRTE14D	640	FSRTE22D	650	FSRTE30D	630
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FSRTE06F	640	FSRTE14F	640	FSRTE22F	650	FSRTE30F	630
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FSRTE07B	650	FSRTE15B	640	FSRTE23B	650	FSRTE31B	660
FSRTE07C	650	FSRTE15C	640	FSRTE23C	650	FSRTE31C	660
FSRTE07D	650	FSRTE15D	640	FSRTE23D	650	FSRTE31D	650
FSRTE07E	650	FSRTE15E	640	FSRTE23E	650	FSRTE31E	650
FSRTE07F	650	FSRTE15F	640	FSRTE23F	650	FSRTE31F	650
FSRTE08A	650	FSRTE16A	640	FSRTE24A	640	FSRTE32A	650
FSRTE08B	650	FSRTE16B	640	FSRTE24B	640	FSRTE32B	650
FSRTE08C	640	FSRTE16C	640	FSRTE24C	640	FSRTE32C	650
FSRTE08D	640	FSRTE16D	640	FSRTE24D	640	FSRTE32D	650
FSRTE08E	640	FSRTE16E	640	FSRTE24E	640	FSRTE32E	650
FSRTE08F	640	FSRTE16F	630	FSRTE24F	640	FSRTE32F	650

FSRTE33A	650	FSRTE41A	630	FSRTE49A	640	FSRTE57A	650
FSRTE33B	650	FSRTE41B	630	FSRTE49B	630	FSRTE57B	650
FSRTE33C	650	FSRTE41C	630	FSRTE49C	630	FSRTE57C	650
FSRTE33D	650	FSRTE41D	630	FSRTE49D	630	FSRTE57D	650
FSRTE33E	650	FSRTE41E	630	FSRTE49E	630	FSRTE57E	650
FSRTE33F	650	FSRTE41F	630	FSRTE49F	630	FSRTE57F	650
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FSRTE34B	640	FSRTE42B	630	FSRTE50B	630	FSRTE58B	650
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FSRTE34D	640	FSRTE42D	630	FSRTE50D	630	FSRTE58D	650
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FSRTE35B	640	FSRTE43B	630	FSRTE51B	630	FSRTE59B	640
FSRTE35C	640	FSRTE43C	630	FSRTE51C	630	FSRTE59C	640
FSRTE35D	640	FSRTE43D	630	FSRTE51D	630	FSRTE59D	640
FSRTE35E	640	FSRTE43E	630	FSRTE51E	630	FSRTE59E	640
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FSRTE36A	640	FSRTE44A	630	FSRTE52A	650	FSRTE60A	640
FSRTE36B	640	FSRTE44B	630	FSRTE52B	650	FSRTE60B	640
FSRTE36C	640	FSRTE44C	630	FSRTE52C	650	FSRTE60C	640
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FSRTE36E	640	FSRTE44E	620	FSRTE52E	650	FSRTE60E	640
FSRTE36F	640	FSRTE44F	620	FSRTE52F	650	FSRTE60F	640
FSRTE37A	650	FSRTE45A	620	FSRTE53A	650	FSRTE61A	650
FSRTE37B	650	FSRTE45B	620	FSRTE53B	640	FSRTE61B	650
FSRTE37C	650	FSRTE45C	620	FSRTE53C	640	FSRTE61C	650
FSRTE37D	650	FSRTE45D	620	FSRTE53D	640	FSRTE61D	650
FSRTE37E	650	FSRTE45E	620	FSRTE53E	640	FSRTE61E	650
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FSRTE38A	650	FSRTE46A	650	FSRTE54A	640	FSRTE62A	650
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FSRTE39A	640	FSRTE47A	640	FSRTE55A	660	FSRTE63A	640
FSRTE39B	640	FSRTE47B	640	FSRTE55B	660	FSRTE63B	640
FSRTE39C	640	FSRTE47C	640	FSRTE55C	660	FSRTE63C	640
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FSRTE40A	640	FSRTE48A	640	FSRTE56A	660	FSRTE64A	640
FSRTE40B	640	FSRTE48B	640	FSRTE56B	660	FSRTE64B	640
FSRTE40C	640	FSRTE48C	640	FSRTE56C	660	FSRTE64C	640
FSRTE40D	630	FSRTE48D	640	FSRTE56D	660	FSRTE64D	640
FSRTE40E	630	FSRTE48E	640	FSRTE56E	650	FSRTE64E	640
FSRTE40F	630	FSRTE48F	640	FSRTE56F	650	FSRTE64F	640

FSRTE65A	640	FSRTE73A	640	FSRTE81A	650	FSRTE89A	630
FSRTE65B	640	FSRTE73B	640	FSRTE81B	650	FSRTE89B	630
FSRTE65C	640	FSRTE73C	630	FSRTE81C	640	FSRTE89C	630
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FSRTE65E	640	FSRTE73E	630	FSRTE81E	640	FSRTE89E	630
FSRTE65F	640	FSRTE73F	630	FSRTE81F	640	FSRTE89F	630
FSRTE66A	640	FSRTE74A	630	FSRTE82A	640	FSRTE90A	620
FSRTE66B	630	FSRTE74B	630	FSRTE82B	640	FSRTE90B	620
FSRTE66C	630	FSRTE74C	630	FSRTE82C	640	FSRTE90C	620
FSRTE66D	630	FSRTE74D	630	FSRTE82D	640	FSRTE90D	620
FSRTE66E	630	FSRTE74E	630	FSRTE82E	640	FSRTE90E	620
FSRTE66F	630	FSRTE74F	630	FSRTE82F	640	FSRTE90F	620
FSRTE67A	640	FSRTE75A	630	FSRTE83A	640	FSRTE91A	630
FSRTE67B	630	FSRTE75B	630	FSRTE83B	640	FSRTE91B	630
FSRTE67C	630	FSRTE75C	630	FSRTE83C	640	FSRTE91C	630
FSRTE67D	630	FSRTE75D	630	FSRTE83D	640	FSRTE91D	630
FSRTE67E	630	FSRTE75E	630	FSRTE83E	640	FSRTE91E	630
FSRTE67F	630	FSRTE75F	630	FSRTE83F	640	FSRTE91F	630
FSRTE68A	630	FSRTE76A	650	FSRTE84A	640	FSRTE92A	630
FSRTE68B	630	FSRTE76B	650	FSRTE84B	640	FSRTE92B	630
FSRTE68C	630	FSRTE76C	650	FSRTE84C	640	FSRTE92C	620
FSRTE68D	630	FSRTE76D	650	FSRTE84D	640	FSRTE92D	620
FSRTE68E	630	FSRTE76E	650	FSRTE84E	630	FSRTE92E	620
FSRTE68F	630	FSRTE76F	650	FSRTE84F	630	FSRTE92F	620
FSRTE69A	630	FSRTE77A	650	FSRTE85A	650	FSRTE93A	620
FSRTE69B	630	FSRTE77B	650	FSRTE85B	650	FSRTE93B	620
FSRTE69C	630	FSRTE77C	650	FSRTE85C	640	FSRTE93C	620
FSRTE69D	630	FSRTE77D	650	FSRTE85D	640	FSRTE93D	620
FSRTE69E	630	FSRTE77E	650	FSRTE85E	640	FSRTE93E	620
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FSRTE70D	640	FSRTE78D	640	FSRTE86D	640	FSRTE94D	660
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FSRTE71A	640	FSRTE79A	650	FSRTE87A	640	FSRTE95A	660
FSRTE71B	640	FSRTE79B	650	FSRTE87B	640	FSRTE95B	660
FSRTE71C	640	FSRTE79C	650	FSRTE87C	640	FSRTE95C	660
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FSRTE72B	640	FSRTE80B	650	FSRTE88B	630	FSRTE96B	660
FSRTE72C	640	FSRTE80C	650	FSRTE88C	630	FSRTE96C	650
FSRTE72D	640	FSRTE80D	650	FSRTE88D	630	FSRTE96D	650
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FSRTE72F	640	FSRTE80F	650	FSRTE88F	630	FSRTE96F	650
							368,640

Warehouse Table

43 FSCLIENT01A FSRTE01A
FSNODE01
89 FSCLIENT01B FSRTE01B
FSNODE01
98 FSCLIENT01C FSRTE01C
FSNODE01
144 FSCLIENT01D FSRTE01D
FSNODE01
169 FSCLIENT01E FSRTE01E
FSNODE01
178 FSCLIENT01F FSRTE01F
FSNODE01
232 FSCLIENT02A FSRTE02A
FSNODE01
244 FSCLIENT02B FSRTE02B
FSNODE01
274 FSCLIENT02C FSRTE02C
FSNODE01
290 FSCLIENT02D FSRTE02D
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FSNODE01
573 FSCLIENT03C FSRTE03C
FSNODE01
578 FSCLIENT03D FSRTE03D
FSNODE01
612 FSCLIENT03E FSRTE03E
FSNODE01
619 FSCLIENT03F FSRTE03F
FSNODE01
621 FSCLIENT01A FSRTE01A
FSNODE01
625 FSCLIENT01B FSRTE01B
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639 FSCLIENT01C FSRTE01C
FSNODE01
643 FSCLIENT01D FSRTE01D
FSNODE01
647 FSCLIENT01E FSRTE01E
FSNODE01
659 FSCLIENT01F FSRTE01F
FSNODE01
666 FSCLIENT02A FSRTE02A
FSNODE01
686 FSCLIENT02B FSRTE02B
FSNODE01
691 FSCLIENT02C FSRTE02C
FSNODE01
695 FSCLIENT02D FSRTE02D
FSNODE01
728 FSCLIENT02E FSRTE02E
FSNODE01
779 FSCLIENT02F FSRTE02F
FSNODE01
949 FSCLIENT03A FSRTE03A
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962 FSCLIENT03B FSRTE03B
FSNODE01

964 FSCLIENT03C FSRTE03C
FSNODE01
971 FSCLIENT03D FSRTE03D
FSNODE01
997 FSCLIENT03E FSRTE03E
FSNODE01
1008 FSCLIENT03F FSRTE03F
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1092 FSCLIENT01D FSRTE01D
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1111 FSCLIENT01E FSRTE01E
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1282 FSCLIENT03A FSRTE03A
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1288 FSCLIENT03B FSRTE03B
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1311 FSCLIENT03C FSRTE03C
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FSNODE01
1529 FSCLIENT01C FSRTE01C
FSNODE01
1560 FSCLIENT01D FSRTE01D
FSNODE01
1696 FSCLIENT01E FSRTE01E
FSNODE01
1714 FSCLIENT01F FSRTE01F
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1737 FSCLIENT02A FSRTE02A
FSNODE01
1758 FSCLIENT02B FSRTE02B
FSNODE01
1778 FSCLIENT02C FSRTE02C
FSNODE01
1841 FSCLIENT02D FSRTE02D
FSNODE01
1868 FSCLIENT02E FSRTE02E
FSNODE01
1878 FSCLIENT02F FSRTE02F
FSNODE01

1893 FSCLIENT03A FSRTE03A
FSNODE01
1896 FSCLIENT03B FSRTE03B
FSNODE01
1928 FSCLIENT03C FSRTE03C
FSNODE01
1944 FSCLIENT03D FSRTE03D
FSNODE01
1945 FSCLIENT03E FSRTE03E
FSNODE01
1955 FSCLIENT03F FSRTE03F
FSNODE01
1956 FSCLIENT01A FSRTE01A
FSNODE01
1982 FSCLIENT01B FSRTE01B
FSNODE01
1997 FSCLIENT01C FSRTE01C
FSNODE01
2020 FSCLIENT01D FSRTE01D
FSNODE01
2027 FSCLIENT01E FSRTE01E
FSNODE01
2076 FSCLIENT01F FSRTE01F
FSNODE01
2143 FSCLIENT02A FSRTE02A
FSNODE01
2144 FSCLIENT02B FSRTE02B
FSNODE01
2182 FSCLIENT02C FSRTE02C
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2198 FSCLIENT02D FSRTE02D
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2250 FSCLIENT02E FSRTE02E
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2265 FSCLIENT02F FSRTE02F
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2272 FSCLIENT03A FSRTE03A
FSNODE01
2318 FSCLIENT03B FSRTE03B
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2351 FSCLIENT03C FSRTE03C
FSNODE01
2374 FSCLIENT03D FSRTE03D
FSNODE01
2376 FSCLIENT03E FSRTE03E
FSNODE01
2384 FSCLIENT03F FSRTE03F
FSNODE01
2424 FSCLIENT01A FSRTE01A
FSNODE01
2466 FSCLIENT01B FSRTE01B
FSNODE01
2518 FSCLIENT01C FSRTE01C
FSNODE01
2519 FSCLIENT01D FSRTE01D
FSNODE01
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FSNODE01

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1943 FSCLIENT11A FSRTE11A FSNODE04	3350 FSCLIENT10E FSRTE10E FSNODE04	4501 FSCLIENT10C FSRTE10C FSNODE04	5698 FSCLIENT10A FSRTE10A FSNODE04
1990 FSCLIENT11B FSRTE11B FSNODE04	3381 FSCLIENT10F FSRTE10F FSNODE04	4527 FSCLIENT10D FSRTE10D FSNODE04	5730 FSCLIENT10B FSRTE10B FSNODE04
2011 FSCLIENT11C FSRTE11C FSNODE04	3418 FSCLIENT11A FSRTE11A FSNODE04	4550 FSCLIENT10E FSRTE10E FSNODE04	5770 FSCLIENT10C FSRTE10C FSNODE04
2013 FSCLIENT11D FSRTE11D FSNODE04	3425 FSCLIENT11B FSRTE11B FSNODE04	4632 FSCLIENT10F FSRTE10F FSNODE04	5810 FSCLIENT10D FSRTE10D FSNODE04
2018 FSCLIENT11E FSRTE11E FSNODE04	3444 FSCLIENT11C FSRTE11C FSNODE04	4650 FSCLIENT11A FSRTE11A FSNODE04	5823 FSCLIENT10E FSRTE10E FSNODE04
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920 FSCLIENT20D FSRTE20D FSNODE07	1786 FSCLIENT20B FSRTE20B FSNODE07	3258 FSCLIENT19F FSRTE19F FSNODE07	4214 FSCLIENT19D FSRTE19D FSNODE07
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17894 FSCLIENT21E FSRTE21E FSNODE07	18847 FSCLIENT21C FSRTE21C FSNODE07	20099 FSCLIENT21A FSRTE21A FSNODE07	21353 FSCLIENT20E FSRTE20E FSNODE07
17901 FSCLIENT21F FSRTE21F FSNODE07	18849 FSCLIENT21D FSRTE21D FSNODE07	20209 FSCLIENT21B FSRTE21B FSNODE07	21542 FSCLIENT20F FSRTE20F FSNODE07
18060 FSCLIENT19A FSRTE19A FSNODE07	18883 FSCLIENT21E FSRTE21E FSNODE07	20218 FSCLIENT21C FSRTE21C FSNODE07	21548 FSCLIENT21A FSRTE21A FSNODE07
18070 FSCLIENT19B FSRTE19B FSNODE07	18940 FSCLIENT21F FSRTE21F FSNODE07	20247 FSCLIENT21D FSRTE21D FSNODE07	21549 FSCLIENT21B FSRTE21B FSNODE07
18094 FSCLIENT19C FSRTE19C FSNODE07	19005 FSCLIENT19A FSRTE19A FSNODE07	20273 FSCLIENT21E FSRTE21E FSNODE07	21570 FSCLIENT21C FSRTE21C FSNODE07
18125 FSCLIENT19D FSRTE19D FSNODE07	19057 FSCLIENT19B FSRTE19B FSNODE07	20317 FSCLIENT21F FSRTE21F FSNODE07	21602 FSCLIENT21D FSRTE21D FSNODE07
18148 FSCLIENT19E FSRTE19E FSNODE07	19071 FSCLIENT19C FSRTE19C FSNODE07	20335 FSCLIENT19A FSRTE19A FSNODE07	21635 FSCLIENT21E FSRTE21E FSNODE07
18167 FSCLIENT19F FSRTE19F FSNODE07	19111 FSCLIENT19D FSRTE19D FSNODE07	20387 FSCLIENT19B FSRTE19B FSNODE07	21639 FSCLIENT21F FSRTE21F FSNODE07
18171 FSCLIENT20A FSRTE20A FSNODE07	19175 FSCLIENT19E FSRTE19E FSNODE07	20499 FSCLIENT19C FSRTE19C FSNODE07	21679 FSCLIENT19A FSRTE19A FSNODE07
18186 FSCLIENT20B FSRTE20B FSNODE07	19182 FSCLIENT19F FSRTE19F FSNODE07	20501 FSCLIENT19D FSRTE19D FSNODE07	21718 FSCLIENT19B FSRTE19B FSNODE07
18224 FSCLIENT20C FSRTE20C FSNODE07	19185 FSCLIENT20A FSRTE20A FSNODE07	20508 FSCLIENT19E FSRTE19E FSNODE07	21719 FSCLIENT19C FSRTE19C FSNODE07
18270 FSCLIENT20D FSRTE20D FSNODE07	19214 FSCLIENT20B FSRTE20B FSNODE07	20548 FSCLIENT19F FSRTE19F FSNODE07	21729 FSCLIENT19D FSRTE19D FSNODE07
18327 FSCLIENT20E FSRTE20E FSNODE07	19247 FSCLIENT20C FSRTE20C FSNODE07	20668 FSCLIENT20A FSRTE20A FSNODE07	21754 FSCLIENT19E FSRTE19E FSNODE07
18361 FSCLIENT20F FSRTE20F FSNODE07	19270 FSCLIENT20D FSRTE20D FSNODE07	20685 FSCLIENT20B FSRTE20B FSNODE07	21755 FSCLIENT19F FSRTE19F FSNODE07
18369 FSCLIENT21A FSRTE21A FSNODE07	19317 FSCLIENT20E FSRTE20E FSNODE07	20693 FSCLIENT20C FSRTE20C FSNODE07	21790 FSCLIENT20A FSRTE20A FSNODE07
18377 FSCLIENT21B FSRTE21B FSNODE07	19362 FSCLIENT20F FSRTE20F FSNODE07	20706 FSCLIENT20D FSRTE20D FSNODE07	21811 FSCLIENT20B FSRTE20B FSNODE07
18382 FSCLIENT21C FSRTE21C FSNODE07	19378 FSCLIENT21A FSRTE21A FSNODE07	20731 FSCLIENT20E FSRTE20E FSNODE07	21846 FSCLIENT20C FSRTE20C FSNODE07
18392 FSCLIENT21D FSRTE21D FSNODE07	19387 FSCLIENT21B FSRTE21B FSNODE07	20744 FSCLIENT20F FSRTE20F FSNODE07	21865 FSCLIENT20D FSRTE20D FSNODE07
18412 FSCLIENT21E FSRTE21E FSNODE07	19506 FSCLIENT21C FSRTE21C FSNODE07	20772 FSCLIENT21A FSRTE21A FSNODE07	21983 FSCLIENT20E FSRTE20E FSNODE07
18448 FSCLIENT21F FSRTE21F FSNODE07	19604 FSCLIENT21D FSRTE21D FSNODE07	20782 FSCLIENT21B FSRTE21B FSNODE07	22019 FSCLIENT20F FSRTE20F FSNODE07

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22056 FSCLIENT21B FSRTE21B FSNODE07	23014 FSCLIENT20F FSRTE20F FSNODE07	24337 FSCLIENT20D FSRTE20D FSNODE07	25687 FSCLIENT20B FSRTE20B FSNODE07
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21420 FSCLIENT47A FSRTE47A FSNODE16	22560 FSCLIENT46E FSRTE46E FSNODE16	23429 FSCLIENT46C FSRTE46C FSNODE16	24315 FSCLIENT46A FSRTE46A FSNODE16
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21586 FSCLIENT48B FSRTE48B FSNODE16	22699 FSCLIENT47F FSRTE47F FSNODE16	23686 FSCLIENT47D FSRTE47D FSNODE16	24615 FSCLIENT47B FSRTE47B FSNODE16
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35018 FSCLIENT66E FSRTE66E FSNODE22	36362 FSCLIENT66C FSRTE66C FSNODE22	582 FSCLIENT69F FSRTE69F FSNODE23	1929 FSCLIENT69D FSRTE69D FSNODE23
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32562 FSCLIENT96A FSRTE96A FSNODE32	33496 FSCLIENT95E FSRTE95E FSNODE32	34676 FSCLIENT95C FSRTE95C FSNODE32	35863 FSCLIENT95A FSRTE95A FSNODE32
32567 FSCLIENT96B FSRTE96B FSNODE32	33551 FSCLIENT95F FSRTE95F FSNODE32	34751 FSCLIENT95D FSRTE95D FSNODE32	35916 FSCLIENT95B FSRTE95B FSNODE32
32599 FSCLIENT96C FSRTE96C FSNODE32	33561 FSCLIENT96A FSRTE96A FSNODE32	34768 FSCLIENT95E FSRTE95E FSNODE32	35926 FSCLIENT95C FSRTE95C FSNODE32
32717 FSCLIENT96D FSRTE96D FSNODE32	33565 FSCLIENT96B FSRTE96B FSNODE32	34872 FSCLIENT95F FSRTE95F FSNODE32	35941 FSCLIENT95D FSRTE95D FSNODE32
32724 FSCLIENT96E FSRTE96E FSNODE32	33571 FSCLIENT96C FSRTE96C FSNODE32	34913 FSCLIENT96A FSRTE96A FSNODE32	35984 FSCLIENT95E FSRTE95E FSNODE32
32770 FSCLIENT96F FSRTE96F FSNODE32	33668 FSCLIENT96D FSRTE96D FSNODE32	35016 FSCLIENT96B FSRTE96B FSNODE32	35991 FSCLIENT95F FSRTE95F FSNODE32
32819 FSCLIENT94A FSRTE94A FSNODE32	33694 FSCLIENT96E FSRTE96E FSNODE32	35023 FSCLIENT96C FSRTE96C FSNODE32	36010 FSCLIENT96A FSRTE96A FSNODE32
32839 FSCLIENT94B FSRTE94B FSNODE32	33707 FSCLIENT96F FSRTE96F FSNODE32	35046 FSCLIENT96D FSRTE96D FSNODE32	36134 FSCLIENT96B FSRTE96B FSNODE32
32855 FSCLIENT94C FSRTE94C FSNODE32	33739 FSCLIENT94A FSRTE94A FSNODE32	35062 FSCLIENT96E FSRTE96E FSNODE32	36141 FSCLIENT96C FSRTE96C FSNODE32
32902 FSCLIENT94D FSRTE94D FSNODE32	33803 FSCLIENT94B FSRTE94B FSNODE32	35069 FSCLIENT96F FSRTE96F FSNODE32	36212 FSCLIENT96D FSRTE96D FSNODE32
32985 FSCLIENT94E FSRTE94E FSNODE32	33868 FSCLIENT94C FSRTE94C FSNODE32	35071 FSCLIENT94A FSRTE94A FSNODE32	36325 FSCLIENT96E FSRTE96E FSNODE32
32992 FSCLIENT94F FSRTE94F FSNODE32	33937 FSCLIENT94D FSRTE94D FSNODE32	35126 FSCLIENT94B FSRTE94B FSNODE32	36474 FSCLIENT96F FSRTE96F FSNODE32
33017 FSCLIENT95A FSRTE95A FSNODE32	33947 FSCLIENT94E FSRTE94E FSNODE32	35133 FSCLIENT94C FSRTE94C FSNODE32	36518 FSCLIENT94A FSRTE94A FSNODE32
33029 FSCLIENT95B FSRTE95B FSNODE32	33969 FSCLIENT94F FSRTE94F FSNODE32	35146 FSCLIENT94D FSRTE94D FSNODE32	36547 FSCLIENT94B FSRTE94B FSNODE32
33031 FSCLIENT95C FSRTE95C FSNODE32	33976 FSCLIENT95A FSRTE95A FSNODE32	35147 FSCLIENT94E FSRTE94E FSNODE32	36562 FSCLIENT94C FSRTE94C FSNODE32
33037 FSCLIENT95D FSRTE95D FSNODE32	34048 FSCLIENT95B FSRTE95B FSNODE32	35201 FSCLIENT94F FSRTE94F FSNODE32	36596 FSCLIENT94D FSRTE94D FSNODE32

36643 FSCLIENT94E FSRTE94E FSNODE32			
36666 FSCLIENT94F FSRTE94F FSNODE32			
36760 FSCLIENT95A FSRTE95A FSNODE32			
36761 FSCLIENT95B FSRTE95B FSNODE32			
36766 FSCLIENT95C FSRTE95C FSNODE32			
36776 FSCLIENT95D FSRTE95D FSNODE32			
36779 FSCLIENT95E FSRTE95E FSNODE32			
36802 FSCLIENT95F FSRTE95F FSNODE32			
36811 FSCLIENT96A FSRTE96A FSNODE32			
36855 FSCLIENT96B FSRTE96B FSNODE32			

Appendix D: Hardware/Software Configuration Utility

Server Hardware

SYHWBE.TXT

The following hardware configuration information for the TPC-C Cluster Nodes was obtained from the Windows 2000 Computer Management/System Summary tool. All 32 cluster nodes are identically configured. The IBM ServeRAID configuration information was obtained by using a tool called ipssend.exe which ships with the ServeRAID controllers.

A second IBM EtherJet Management adapter was used for access to the IBM campus LAN. This adapter had no part in the benchmark.

Write caching was enabled on all IBM ServeRAID controllers. The IBM ServeRAID controller offers a removable, redundant, battery-backed write cache which protects cached data in the event of either a primary cache failure or a controller failure. The redundant cache was installed on all ServeRAID controllers.

System Information report written at: 05/16/2000 12:55:11 PM
[System Summary]

Item	Value
OS Name	Microsoft Windows 2000 Advanced Server
Version	5.0.2195 Build 2195
OS Manufacturer	Microsoft Corporation
System Name	FSNODE17
System Manufacturer	IBM
System Model	Netfinity 8500R
System Type	X86-based PC
Processor	x86 Family 6 Model 10 Stepping 0 GenuineIntel ~700 Mhz
Processor	x86 Family 6 Model 10 Stepping 0 GenuineIntel ~700 Mhz
Processor	x86 Family 6 Model 10 Stepping 0 GenuineIntel ~700 Mhz
Processor	x86 Family 6 Model 10 Stepping 0 GenuineIntel ~700 Mhz
BIOS Version	IBM BIOS Ver 4.0
Windows Directory	C:\WINNT
System Directory	C:\WINNT\System32
Boot Device	\Device\Harddisk0\Partition1
Locale	United States
User Name	FSDOM2\tpcc
Time Zone	Eastern Daylight Time
Total Physical Memory	3,931,644 KB
Available Physical Memory	3,625,764 KB
Total Virtual Memory	11,895,028 KB
Available Virtual Memory	11,412,572 KB
Page File Space	7,963,384 KB
Page File	C:\pagefile.sys

System Information report written at: 05/16/2000 12:56:38 PM
[Adapter]

Item	Value
Name	[00000000] IBM 10/100 EtherJet PCI Management Adapter
Adapter Type	Ethernet 802.3
Product Name	IBM 10/100 EtherJet PCI Management Adapter
Installed	True
PNP Device ID	PCI\VEN_8086&DEV_1229&SUBSYS_305C1014&REV_08\3&23C0707C&0&40
Last Reset	5/15/2000 11:33:01 AM
Index	0
Service Name	IBMFE
IP Address	9.67.188.18
IP Subnet	255.255.255.192
Default IP Gateway	9.67.188.1
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available

MAC Address	00:04:AC:93:44:6E
Service Name	IBMFE
IRQ Number	23
I/O Port	0xB000-0xCFFF
Driver	c:\winnt\system32\drivers\ibmfent5.sys(80144, 4.01.67.0000)

Name	[00000001] RAS Async Adapter
Adapter Type	Not Available
Product Name	RAS Async Adapter
Installed	True
PNP Device ID	Not Available
Last Reset	5/15/2000 11:33:01 AM
Index	1
Service Name	AsyncMac
IP Address	Not Available
IP Subnet	Not Available
Default IP Gateway	Not Available
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	Not Available
Service Name	Not Available

Name	[00000002] WAN Miniport (L2TP)
Adapter Type	Not Available
Product Name	WAN Miniport (L2TP)
Installed	True
PNP Device ID	ROOT\MS_L2TPMINI\PORT\0000
Last Reset	5/15/2000 11:33:01 AM
Index	2
Service Name	Rasl2tp
IP Address	Not Available
IP Subnet	Not Available
Default IP Gateway	Not Available
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	Not Available
Service Name	Rasl2tp
Driver	c:\winnt\system32\drivers\rasl2tp.sys(50800, 5.00.2179.1)

Name	[00000003] WAN Miniport (PPTP)
Adapter Type	Wide Area Network (WAN)
Product Name	WAN Miniport (PPTP)
Installed	True
PNP Device ID	ROOT\MS_PPTP\MINI\PORT\0000
Last Reset	5/15/2000 11:33:01 AM
Index	3
Service Name	PptpMiniport
IP Address	Not Available
IP Subnet	Not Available
Default IP Gateway	Not Available
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	50:50:54:50:30:30
Service Name	PptpMiniport
Driver	c:\winnt\system32\drivers\rasppptp.sys(47856, 5.00.2160.1)

Name	[00000004] Direct Parallel
Adapter Type	Not Available
Product Name	Direct Parallel
Installed	True
PNP Device ID	ROOT\MS_PT\IMINI\PORT\0000
Last Reset	5/15/2000 11:33:01 AM
Index	4
Service Name	Raspti
IP Address	Not Available
IP Subnet	Not Available
Default IP Gateway	Not Available
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	Not Available

Service Name Raspti
Driver c:\winnt\system32\drivers\raspti.sys(16880, 5.00.2146.1)

Name [00000005] WAN Miniport (IP)
Adapter Type Not Available
Product Name WAN Miniport (IP)
Installed True
PNP Device ID ROOT\MS_NDISWANIP\0000
Last Reset 5/15/2000 11:33:01 AM
Index 5
Service Name NdisWan
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled False
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Service Name NdisWan
Driver c:\winnt\system32\drivers\ndiswan.sys(90768, 5.00.2184.1)

Name [00000006] IBM 10/100 EtherJet PCI Management Adapter
Adapter Type Ethernet 802.3
Product Name IBM 10/100 EtherJet PCI Management Adapter
Installed True
PNP Device ID PCI\VEN_8086&DEV_1229&SUBSYS_305C1014&REV_08\3&23C0707C&0&48
Last Reset 5/15/2000 11:33:01 AM
Index 6
Service Name IBMFE
IP Address 192.6.2.17
IP Subnet 255.255.255.0
Default IP Gateway Not Available
DHCP Enabled False
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:04:AC:93:3E:BF
Service Name IBMFE
IRQ Number 24
I/O Port 0xB040-0xB07F
Driver c:\winnt\system32\drivers\ibmfent5.sys(80144, 4.01.67.0000)

Name [00000008] cLAN Host Adapter
Adapter Type Ethernet 802.3
Product Name cLAN Host Adapter
Installed True
PNP Device ID PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&146CA173&0&38
Last Reset 5/15/2000 11:33:01 AM
Index 8
Service Name GNINDIS
IP Address 192.168.100.17
IP Subnet 255.255.255.0
Default IP Gateway Not Available
DHCP Enabled False
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:90:FA:00:0D:50
Service Name GNINDIS
IRQ Number 22
Driver c:\winnt\system32\drivers\gnindis.sys(21568, 4.01.00)

Found 8 IBM ServeRAID Controller(s).
Read Configuration has been initiated for Controller 1...

Controller Information

Firmware Version	: 3.70.16
Boot Block Version	: 3.00.21
BIOS Version	: 4.00.16
Controller Type	: ServeRAID-3H
Controller Slot Information	: 10
Controller Configuration ID	: Null Config

SCSI Channel Description : 3 parallel SCSI wide
Host Interface Description : 1 32 bit PCI
Initiator IDs (Channel/SCSI ID): 1/7 2/7 3/7
Maximum Physical Devices : 45
Defunct Disk Drive Count : 0
Logical Drives/Offline/Critical:2/0/0
Rebuild Rate (Low/Medium/High) : High
Read Ahead : Adaptive
Unattended Mode (Yes/No) : No
Part of Cluster (Yes/No) : No
Battery Backup Write Cache : Installed
Concurrent Commands Supported : 128
Configuration Update Count : 1

Logical Drive Information

Logical Drive Number 1
Status of Logical Drive : Okay (OKY)
Raid Level : 1
Size (in MB) : 8678
Write Cache Status : Write Back (WB)
Number of Chunks : 2
Stripe Unit Size : 16K
Access Blocked : No
Part of Array : A
Part of Merge Group : 0

Logical Drive Number 2
Status of Logical Drive : Okay (OKY)
Raid Level : 5
Size (in MB) : 121499
Write Cache Status : Write Back (WB)
Number of Chunks : 8
Stripe Unit Size : 16K
Access Blocked : No
Part of Array : B
Part of Merge Group : 0

Array A Stripe Order (Channel/SCSI ID) : 1,0 2,0
Array B Stripe Order (Channel/SCSI ID) : 1,1 2,1 1,2 2,2 1,3 2,3 1,4 2,4

Physical Device Information

Channel #1:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 8678/17773888
Device ID : IBM-PSG DMVS09D 0180F802F62C

Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR665832

Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR570700

Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR569410

Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR662451
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094008133
Channel #2:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 8678/17773888
Device ID : IBM-PSG DMVS09D 0180F80328F4
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR569405
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR661064
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR651955
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR660891
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094008133
Channel #3:
Initiator at SCSI ID 7
Command Completed Successfully.

Read Configuration has been initiated for Controller 2...

Controller Information

Firmware Version : 3.70.16
Boot Block Version : 3.00.21
BIOS Version : 4.00.16
Controller Type : ServeRAID-3H
Controller Slot Information : 11
Controller Configuration ID : Null Config
SCSI Channel Description : 3 parallel SCSI wide
Host Interface Description : 1 32 bit PCI
Initiator IDs (Channel/SCSI ID): 1/7 2/7 3/7
Maximum Physical Devices : 45
Defunct Disk Drive Count : 0
Logical Drives/Offline/Critical: 2/0/0
Rebuild Rate (Low/Medium/High) : High
Read Ahead : Adaptive
Unattended Mode (Yes/No) : No
Part of Cluster (Yes/No) : No

Battery Backup Write Cache : Installed
Concurrent Commands Supported : 128
Configuration Update Count : 2

Logical Drive Information

Logical Drive Number 1

Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : A
Part of Merge Group : 0

Logical Drive Number 2

Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : B
Part of Merge Group : 0

Array A Stripe Order (Channel/SCSI ID) : 1,0 2,0 3,0 1,1 2,1 3,1 1,2 2,2
3,2 1,3 2,3 3,3 1,4 2,4 3,4

Array B Stripe Order (Channel/SCSI ID) : 1,8 2,8 3,8 1,9 2,9 3,9 1,10 2,10
3,10 1,11 2,11 3,11 1,12 2,12 3,12

Physical Device Information

Channel #1:

Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR667833
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR661492
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR574538
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR665593
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR641608
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 8
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR570385

Target on SCSI ID 9	Device ID : IBM-PSG ST318203B227LR628378
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 9
SCSI ID : 9	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 9
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)
Device ID : IBM-PSG ST318203B227LR634569	Size (in MB)/(in Sectors): 17357/35548048
Target on SCSI ID 10	Device ID : IBM-PSG ST318203B227LR661723
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 10
SCSI ID : 10	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 10
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)
Device ID : IBM-PSG ST318203B227LR657126	Size (in MB)/(in Sectors): 17357/35548048
Target on SCSI ID 11	Device ID : IBM-PSG ST318203B227LR662744
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 11
SCSI ID : 11	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 11
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)
Device ID : IBM-PSG ST318203B227LR585364	Size (in MB)/(in Sectors): 17357/35548048
Target on SCSI ID 12	Device ID : IBM-PSG ST318203B227LR663117
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 12
SCSI ID : 12	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 12
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)
Device ID : IBM-PSG ST318203B227LR620837	Size (in MB)/(in Sectors): 17357/35548048
Target on SCSI ID 15	Device ID : IBM-PSG ST318203B227LR661065
Device is a 16 bit, Fast SCSI, tag queuing Processor Device	Target on SCSI ID 15
SCSI ID : 15	Device is a 16 bit, Fast SCSI, tag queuing Processor Device
PFA (Yes/No) : No	SCSI ID : 15
State : Standby (SBY)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 0/0	State : Standby (SBY)
Device ID : IBM EXP200 102094614639	Size (in MB)/(in Sectors): 0/0
Channel #2:	Device ID : IBM EXP200 102094718935
Initiator at SCSI ID 7	Channel #3:
Target on SCSI ID 0	Initiator at SCSI ID 7
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 0
SCSI ID : 0	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 0
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)
Device ID : IBM-PSG ST318203B227LR641763	Size (in MB)/(in Sectors): 17357/35548048
Target on SCSI ID 1	Device ID : IBM-PSG ST318203B227LR665955
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 1
SCSI ID : 1	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 1
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)
Device ID : IBM-PSG ST318203B227LR636251	Size (in MB)/(in Sectors): 17357/35548048
Target on SCSI ID 2	Device ID : IBM-PSG ST318203B227LR668854
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 2
SCSI ID : 2	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 2
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)
Device ID : IBM-PSG ST318203B227LR642213	Size (in MB)/(in Sectors): 17357/35548048
Target on SCSI ID 3	Device ID : IBM-PSG ST318203B227LR661944
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 3
SCSI ID : 3	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 3
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)
Device ID : IBM-PSG ST318203B227LR642336	Size (in MB)/(in Sectors): 17357/35548048
Target on SCSI ID 4	Device ID : IBM-PSG ST318203B227LR634537
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 4
SCSI ID : 4	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 4
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)
Device ID : IBM-PSG ST318203B227LR660657	Size (in MB)/(in Sectors): 17357/35548048
Target on SCSI ID 8	Device ID : IBM-PSG ST318203B227LR629005
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	Target on SCSI ID 8
SCSI ID : 8	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
PFA (Yes/No) : No	SCSI ID : 8
State : Online (ONL)	PFA (Yes/No) : No
Size (in MB)/(in Sectors): 17357/35548048	State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR706293
 Target on SCSI ID 9
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 9
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR655067
 Target on SCSI ID 10
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 10
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR667742
 Target on SCSI ID 11
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 11
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR570814
 Target on SCSI ID 12
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 12
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR655112
 Target on SCSI ID 15
 Device is a 16 bit, Fast SCSI, tag queuing Processor Device
 SCSI ID : 15
 PFA (Yes/No) : No
 State : Standby (SBY)
 Size (in MB)/(in Sectors): 0/0
 Device ID : IBM EXP200 102093187790
 Command Completed Successfully.

Read Configuration has been initiated for Controller 3...

Controller Information

Firmware Version : 3.70.16
 Boot Block Version : 3.00.21
 BIOS Version : 4.00.16
 Controller Type : ServeRAID-3H
 Controller Slot Information : 12
 Controller Configuration ID : Null Config
 SCSI Channel Description : 3 parallel SCSI wide
 Host Interface Description : 1 32 bit PCI
 Initiator IDs (Channel/SCSI ID): 1/7 2/7 3/7
 Maximum Physical Devices : 45
 Defunct Disk Drive Count : 0
 Logical Drives/Offline/Critical: 2/0/0
 Rebuild Rate (Low/Medium/High) : High
 Read Ahead : Adaptive
 Unattended Mode (Yes/No) : No
 Part of Cluster (Yes/No) : No
 Battery Backup Write Cache : Installed
 Concurrent Commands Supported : 128
 Configuration Update Count : 1

Logical Drive Information

Logical Drive Number 1
 Status of Logical Drive : Okay (OKY)
 Raid Level : 1E
 Size (in MB) : 130170
 Write Cache Status : Write Back (WB)
 Number of Chunks : 15
 Stripe Unit Size : 8K
 Access Blocked : No
 Part of Array : A
 Part of Merge Group : 0
 Logical Drive Number 2
 Status of Logical Drive : Okay (OKY)

Raid Level : 1E
 Size (in MB) : 130170
 Write Cache Status : Write Back (WB)
 Number of Chunks : 15
 Stripe Unit Size : 8K
 Access Blocked : No
 Part of Array : B
 Part of Merge Group : 0

Array A Stripe Order (Channel/SCSI ID) : 1,0 2,0 3,0 1,1 2,1 3,1 1,2 2,2
 3,2 1,3 2,3 3,3 1,4 2,4 3,4
 Array B Stripe Order (Channel/SCSI ID) : 1,8 2,8 3,8 1,9 2,9 3,9 1,10 2,10
 3,10 1,11 2,11 3,11 1,12 2,12 3,12

Physical Device Information

Channel #1:
 Initiator at SCSI ID 7
 Target on SCSI ID 0
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 0
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR667661
 Target on SCSI ID 1
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 1
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR668795
 Target on SCSI ID 2
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 2
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR668859
 Target on SCSI ID 3
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 3
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR653898
 Target on SCSI ID 4
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 4
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR661672
 Target on SCSI ID 8
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 8
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR660961
 Target on SCSI ID 9
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 9
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR668034
 Target on SCSI ID 10
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 10
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR675904
 Target on SCSI ID 11
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 11
 PFA (Yes/No) : No

State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR655016	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 12		Device ID	: IBM-PSG ST318203B227LR655607
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 12	
SCSI ID	: 12	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	
PFA (Yes/No)	: No	SCSI ID	: 12
State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR657615	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 15		Device ID	: IBM-PSG ST318203B227LR663758
Device is a 16 bit, Fast SCSI, tag queuing Processor Device		Target on SCSI ID 15	
SCSI ID	: 15	Device is a 16 bit, Fast SCSI, tag queuing Processor Device	
PFA (Yes/No)	: No	SCSI ID	: 15
State	: Standby (SBY)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	0/0	State	: Standby (SBY)
Device ID	: IBM EXP200 102094614477	Size (in MB)/(in Sectors):	0/0
Channel #2:		Device ID	: IBM EXP200 102094718909
Initiator at SCSI ID 7		Channel #3:	
Target on SCSI ID 0		Initiator at SCSI ID 7	
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 0	
SCSI ID	: 0	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	
PFA (Yes/No)	: No	SCSI ID	: 0
State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR662091	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 1		Device ID	: IBM-PSG ST318203B227LR641510
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 1	
SCSI ID	: 1	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	
PFA (Yes/No)	: No	SCSI ID	: 1
State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR574573	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 2		Device ID	: IBM-PSG ST318203B227LR509892
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 2	
SCSI ID	: 2	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	
PFA (Yes/No)	: No	SCSI ID	: 2
State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR669227	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 3		Device ID	: IBM-PSG ST318203B227LR509843
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 3	
SCSI ID	: 3	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	
PFA (Yes/No)	: No	SCSI ID	: 3
State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR661977	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 4		Device ID	: IBM-PSG ST318203B227LR570529
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 4	
SCSI ID	: 4	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	
PFA (Yes/No)	: No	SCSI ID	: 4
State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR703536	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 8		Device ID	: IBM-PSG ST318203B227LR661640
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 8	
SCSI ID	: 8	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	
PFA (Yes/No)	: No	SCSI ID	: 8
State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR611293	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 9		Device ID	: IBM-PSG ST318203B227LR645177
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 9	
SCSI ID	: 9	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	
PFA (Yes/No)	: No	SCSI ID	: 9
State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR652414	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 10		Device ID	: IBM-PSG ST318203B227LR645246
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 10	
SCSI ID	: 10	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	
PFA (Yes/No)	: No	SCSI ID	: 10
State	: Online (ONL)	PFA (Yes/No)	: No
Size (in MB)/(in Sectors):	17357/35548048	State	: Online (ONL)
Device ID	: IBM-PSG ST318203B227LR570882	Size (in MB)/(in Sectors):	17357/35548048
Target on SCSI ID 11		Device ID	: IBM-PSG ST318203B227LR104860
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk		Target on SCSI ID 11	
SCSI ID	: 11	Device is a 16 bit, Fast SCSI, tag queuing Hard Disk	

SCSI ID : 11
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR491829
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 12
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG DMVS18D 0180F80270A4
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094614599
Command Completed Successfully.

Read Configuration has been initiated for Controller 4...

Controller Information

Firmware Version : 3.70.16
Boot Block Version : 3.00.21
BIOS Version : 4.00.16
Controller Type : ServeRAID-3H
Controller Slot Information : 1
Controller Configuration ID : Null Config
SCSI Channel Description : 3 parallel SCSI wide
Host Interface Description : 1 32 bit PCI
Initiator IDs (Channel/SCSI ID): 1/7 2/7 3/7
Maximum Physical Devices : 45
Defunct Disk Drive Count : 0
Logical Drives/Offline/Critical: 2/0/0
Rebuild Rate (Low/Medium/High) : High
Read Ahead : Adaptive
Unattended Mode (Yes/No) : No
Part of Cluster (Yes/No) : No
Battery Backup Write Cache : Installed
Concurrent Commands Supported : 128
Configuration Update Count : 1

Logical Drive Information

Logical Drive Number 1
Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : A
Part of Merge Group : 0
Logical Drive Number 2
Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : B
Part of Merge Group : 0
Array A Stripe Order (Channel/SCSI ID) : 1,0 2,0 3,0 1,1 2,1 3,1 1,2 2,2
3,2 1,3 2,3 3,3 1,4 2,4 3,4
Array B Stripe Order (Channel/SCSI ID) : 1,8 2,8 3,8 1,9 2,9 3,9 1,10 2,10
3,10 1,11 2,11 3,11 1,12 2,12 3,12

Physical Device Information

Channel #1:
Initiator at SCSI ID 7

Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR646646
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR646977
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR707534
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR661996
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR570567
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 8
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR620559
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 9
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR706068
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 10
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR574516
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 11
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR568852
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 12
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR668065
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094718890
Channel #2:

Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR657169
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR666511
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR647399
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR649489
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR663058
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 8
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR634471
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 9
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR620735
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 10
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR632749
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 11
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR647021
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 12
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR623518
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094614514

Channel #3:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR630779
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR706895
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR696884
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR662779
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR593128
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 8
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR647407
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 9
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR663588
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 10
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR649466
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 11
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR654404
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 12
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR574433
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)

Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094718878
Command Completed Successfully.

Read Configuration has been initiated for Controller 5...

Controller Information

Firmware Version : 3.70.16
Boot Block Version : 3.00.21
BIOS Version : 4.00.16
Controller Type : ServeRAID-3H
Controller Slot Information : 2
Controller Configuration ID : Null Config
SCSI Channel Description : 3 parallel SCSI wide
Host Interface Description : 1 32 bit PCI
Initiator IDs (Channel/SCSI ID): 1/7 2/7 3/7
Maximum Physical Devices : 45
Defunct Disk Drive Count : 0
Logical Drives/Offline/Critical: 2/0/0
Rebuild Rate (Low/Medium/High) : High
Read Ahead : Adaptive
Unattended Mode (Yes/No) : No
Part of Cluster (Yes/No) : No
Battery Backup Write Cache : Installed
Concurrent Commands Supported : 128
Configuration Update Count : 1

Logical Drive Information

Logical Drive Number 1
Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : A
Part of Merge Group : 0
Logical Drive Number 2
Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : B
Part of Merge Group : 0

Array A Stripe Order (Channel/SCSI ID) : 1,0 2,0 3,0 1,1 2,1 3,1 1,2 2,2
3,2 1,3 2,3 3,3 1,4 2,4 3,4
Array B Stripe Order (Channel/SCSI ID) : 1,8 2,8 3,8 1,9 2,9 3,9 1,10 2,10
3,10 1,11 2,11 3,11 1,12 2,12 3,12

Physical Device Information

Channel #1:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR755046
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR767854
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2

PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR766906
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR757505

Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR758875

Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 8
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR713458

Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 9
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR783191

Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 10
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR769045

Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 11
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR737882

Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 12
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR757590

Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094922083

Channel #2:

Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR765799
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR749968
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

```

SCSI ID      : 2
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR760308
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 3
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR574645
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 4
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR768429
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 8
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR735813
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 9
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR570681
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 10
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR790911
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 11
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR746856
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 12
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR757579
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID      : 15
PFA (Yes/No) : No
State       : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID   : IBM EXP200 102094922123
Channel #3:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 0
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR762221
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 1
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR769293
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 2
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR771263
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 3
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR766687
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 4
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR742205
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 8
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR734982
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 9
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR762717
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 10
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR754118
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 11
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR751026
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID      : 12
PFA (Yes/No) : No
State       : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID   : IBM-PSG ST318203B227LR761079
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID      : 15
PFA (Yes/No) : No
State       : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID   : IBM EXP200 102094920499
Command Completed Successfully.

Read Configuration has been initiated for Controller 6...
-----
Controller Information
-----
Firmware Version      : 3.70.16
Boot Block Version    : 3.00.21
BIOS Version          : 4.00.16
Controller Type        : ServeRAID-3H
Controller Slot Information : 3
Controller Configuration ID : Null Config
SCSI Channel Description : 3 parallel SCSI wide
Host Interface Description : 1 32 bit PCI
Initiator IDs (Channel/SCSI ID): 1/7 2/7 3/7

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Maximum Physical Devices : 45
Defunct Disk Drive Count : 0
Logical Drives/Offline/Critical:2/0/0
Rebuild Rate (Low/Medium/High) : High
Read Ahead : Adaptive
Unattended Mode (Yes/No) : No
Part of Cluster (Yes/No) : No
Battery Backup Write Cache : Installed
Concurrent Commands Supported : 128
Configuration Update Count : 1

Logical Drive Information

Logical Drive Number 1
Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : A
Part of Merge Group : 0
Logical Drive Number 2
Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : B
Part of Merge Group : 0

Array A Stripe Order (Channel/SCSI ID) : 1,0 2,0 3,0 1,1 2,1 3,1 1,2 2,2
3,2 1,3 2,3 3,3 1,4 2,4 3,4
Array B Stripe Order (Channel/SCSI ID) : 1,8 2,8 3,8 1,9 2,9 3,9 1,10 2,10
3,10 1,11 2,11 3,11 1,12 2,12 3,12

Physical Device Information

Channel #1:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR760174
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR662652
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR755732
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR765907
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR733700

Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 8
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR649652
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 9
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR620545
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 10
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR769371
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 11
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR759304
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 12
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR665623
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094922125
Channel #2:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR661712
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR769196
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR759723
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR667595
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048

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Device ID      : IBM-PSG ST318203B227LR668388
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 8
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR757942
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 9
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR593004
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 10
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR75196
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 11
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR759936
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 12
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR768364
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID       : 15
PFA (Yes/No)  : No
State         : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID     : IBM   EXP200 102094922063
Channel #3:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 0
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR768169
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 1
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR739502
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 2
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR666561
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 3
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR758760
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 4
PFA (Yes/No)  : No
State         : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR663269
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 8
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR766114
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 9
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR748589
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 10
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR634963
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 11
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR646242
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID       : 12
PFA (Yes/No)  : No
State         : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID     : IBM-PSG ST318203B227LR661838
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID       : 15
PFA (Yes/No)  : No
State         : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID     : IBM   EXP200 102094922110
Command Completed Successfully.

Read Configuration has been initiated for Controller 7...
-----
Controller Information
-----
Firmware Version      : 3.70.16
Boot Block Version    : 3.00.21
BIOS Version          : 4.00.16
Controller Type        : ServeRAID-3H
Controller Slot Information : 4
Controller Configuration ID : Null Config
SCSI Channel Description : 3 parallel SCSI wide
Host Interface Description : 1 32 bit PCI
Initiator IDs (Channel/SCSI ID): 1/7 2/7 3/7
Maximum Physical Devices : 45
Defunct Disk Drive Count : 0
Logical Drives/Offline/Critical:2/0/0
Rebuild Rate (Low/Medium/High) : High
Read Ahead             : Adaptive
Unattended Mode (Yes/No) : No
Part of Cluster (Yes/No) : No
Battery Backup Write Cache : Installed
Concurrent Commands Supported : 128
Configuration Update Count : 4
-----
Logical Drive Information
-----
Logical Drive Number 1
Status of Logical Drive : Okay (OKY)
Raid Level               : 1E
Size (in MB)             : 130170
Write Cache Status       : Write Back (WB)

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Number of Chunks : 15
 Stripe Unit Size : 8K
 Access Blocked : No
 Part of Array : A
 Part of Merge Group : 0
 Logical Drive Number 2
 Status of Logical Drive : Okay (OKY)
 Raid Level : 1E
 Size (in MB) : 130170
 Write Cache Status : Write Back (WB)
 Number of Chunks : 15
 Stripe Unit Size : 8K
 Access Blocked : No
 Part of Array : B
 Part of Merge Group : 0

 Array A Stripe Order (Channel/SCSI ID) : 1,0 2,0 3,0 1,1 2,1 3,1 1,2 2,2
 3,2 1,3 2,3 3,3 1,4 2,4 3,4
 Array B Stripe Order (Channel/SCSI ID) : 1,8 2,8 3,8 1,9 2,9 3,9 1,10 2,10
 3,10 1,11 2,11 3,11 1,12 2,12 3,12

Physical Device Information

Channel #1:

Initiator at SCSI ID 7
 Target on SCSI ID 0
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 0
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR646007
 Target on SCSI ID 1
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 1
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR666040
 Target on SCSI ID 2
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 2
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR698446
 Target on SCSI ID 3
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 3
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR574468
 Target on SCSI ID 4
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 4
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR748562
 Target on SCSI ID 8
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 8
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR666535
 Target on SCSI ID 9
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 9
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR748727
 Target on SCSI ID 10
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 10
 PFA (Yes/No) : No

State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR767318
 Target on SCSI ID 11
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 11
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR768726
 Target on SCSI ID 12
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 12
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR762210
 Target on SCSI ID 15
 Device is a 16 bit, Fast SCSI, tag queuing Processor Device
 SCSI ID : 15
 PFA (Yes/No) : No
 State : Standby (SBY)
 Size (in MB)/(in Sectors): 0/0
 Device ID : IBM EXP200 102094922065

Channel #2:

Initiator at SCSI ID 7
 Target on SCSI ID 0
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 0
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR552483
 Target on SCSI ID 1
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 1
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR587695
 Target on SCSI ID 2
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 2
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR591026
 Target on SCSI ID 3
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 3
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR593509
 Target on SCSI ID 4
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 4
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR589210
 Target on SCSI ID 8
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 8
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR593132
 Target on SCSI ID 9
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 9
 PFA (Yes/No) : No
 State : Online (ONL)
 Size (in MB)/(in Sectors): 17357/35548048
 Device ID : IBM-PSG ST318203B227LR587339
 Target on SCSI ID 10
 Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
 SCSI ID : 10

PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR599709
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 11
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR758626
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 12
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR668351
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094922034
Channel #3:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR753234
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR722750
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR738917
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR663201
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR708595
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 8
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR663291
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 9
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR780090
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 10
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR730899
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 11
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR668350
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 12
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR762209
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102095225592
Command Completed Successfully.

Read Configuration has been initiated for Controller 8...

Controller Information

Firmware Version : 3.70.16
Boot Block Version : 3.00.21
BIOS Version : 4.00.16
Controller Type : ServeRAID-3H
Controller Slot Information : 5
Controller Configuration ID : Null Config
SCSI Channel Description : 3 parallel SCSI wide
Host Interface Description : 1 32 bit PCI
Initiator IDs (Channel/SCSI ID): 1/7 2/7 3/7
Maximum Physical Devices : 45
Defunct Disk Drive Count : 0
Logical Drives/Offline/Critical:2/0/0
Rebuild Rate (Low/Medium/High) : High
Read Ahead : Adaptive
Unattended Mode (Yes/No) : No
Part of Cluster (Yes/No) : No
Battery Backup Write Cache : Installed
Concurrent Commands Supported : 128
Configuration Update Count : 1

Logical Drive Information

Logical Drive Number 1
Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : A
Part of Merge Group : 0
Logical Drive Number 2
Status of Logical Drive : Okay (OKY)
Raid Level : 1E
Size (in MB) : 130170
Write Cache Status : Write Back (WB)
Number of Chunks : 15
Stripe Unit Size : 8K
Access Blocked : No
Part of Array : B
Part of Merge Group : 0
Array A Stripe Order (Channel/SCSI ID) : 1,0 2,0 3,0 1,1 2,1 3,1 1,2 2,2
3,2 1,3 2,3 3,3 1,4 2,4 3,4

Array B Stripe Order (Channel/SCSIID) : 1,8 2,8 3,8 1,9 2,9 3,9 1,10 2,10
3,10 1,11 2,11 3,11 1,12 2,12 3,12

Physical Device Information

Channel #1:

Initiator at SCSI ID 7

Target on SCSI ID 0

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 0

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR704540

Target on SCSI ID 1

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 1

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR759014

Target on SCSI ID 2

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 2

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR731803

Target on SCSI ID 3

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 3

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR736916

Target on SCSI ID 4

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 4

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR769068

Target on SCSI ID 8

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 8

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR758742

Target on SCSI ID 9

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 9

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR739377

Target on SCSI ID 10

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 10

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR744313

Target on SCSI ID 11

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 11

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR668117

Target on SCSI ID 12

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 12

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR661268

Target on SCSI ID 15

Device is a 16 bit, Fast SCSI, tag queuing Processor Device

SCSI ID : 15

PFA (Yes/No) : No

State : Standby (SBY)

Size (in MB)/(in Sectors): 0/0

Device ID : IBM EXP200 102094922108

Channel #2:

Initiator at SCSI ID 7

Target on SCSI ID 0

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 0

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR595656

Target on SCSI ID 1

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 1

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR593071

Target on SCSI ID 2

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 2

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR574505

Target on SCSI ID 3

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 3

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR593060

Target on SCSI ID 4

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 4

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR570825

Target on SCSI ID 8

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 8

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR594001

Target on SCSI ID 9

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 9

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR583663

Target on SCSI ID 10

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 10

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR577066

Target on SCSI ID 11

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 11

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR578314

Target on SCSI ID 12

Device is a 16 bit, Fast SCSI, tag queuing Hard Disk

SCSI ID : 12

PFA (Yes/No) : No

State : Online (ONL)

Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR574454

Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094921949
Channel #3:
Initiator at SCSI ID 7
Target on SCSI ID 0
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 0
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR756907
Target on SCSI ID 1
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 1
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR750078
Target on SCSI ID 2
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 2
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR638430
Target on SCSI ID 3
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 3
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR768415
Target on SCSI ID 4
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 4
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR739535
Target on SCSI ID 8
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 8
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR769560
Target on SCSI ID 9
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 9
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR748261
Target on SCSI ID 10
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 10
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR732977
Target on SCSI ID 11
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 11
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR769368
Target on SCSI ID 12
Device is a 16 bit, Fast SCSI, tag queuing Hard Disk
SCSI ID : 12
PFA (Yes/No) : No
State : Online (ONL)
Size (in MB)/(in Sectors): 17357/35548048

Device ID : IBM-PSG ST318203B227LR712858
Target on SCSI ID 15
Device is a 16 bit, Fast SCSI, tag queuing Processor Device
SCSI ID : 15
PFA (Yes/No) : No
State : Standby (SBY)
Size (in MB)/(in Sectors): 0/0
Device ID : IBM EXP200 102094922146
Command Completed Successfully.

Server Software

SYSWBE.TXT - Operating system and DBMS levels on Netfinity 8500 servers

System Information report written at: 05/18/2000 12:30:29 PM
[System Summary]

Item	Value
OS Name	Microsoft Windows 2000 Advanced Server
Version	5.0.2195 Build 2195
OS Manufacturer	Microsoft Corporation
System Name	FSNODE14
System Manufacturer	IBM
System Model	Netfinity 8500R
System Type	X86-based PC
Processor	x86 Family 6 Model 10 Stepping 0 GenuineIntel ~700 Mhz
Processor	x86 Family 6 Model 10 Stepping 0 GenuineIntel ~700 Mhz
Processor	x86 Family 6 Model 10 Stepping 0 GenuineIntel ~700 Mhz
Processor	x86 Family 6 Model 10 Stepping 0 GenuineIntel ~700 Mhz
BIOS Version	IBM BIOS Ver 4.0
Windows Directory	C:\WINNT
System Directory	C:\WINNT\System32
Boot Device	\Device\Harddisk0\Partition1
Locale	United States
User Name	FSDOM2\tpcc
Time Zone	Eastern Daylight Time
Total Physical Memory	3,931,644 KB
Available Physical Memory	2,699,768 KB
Total Virtual Memory	11,898,196 KB
Available Virtual Memory	9,558,840 KB
Page File Space	7,966,552 KB
Page File	C:\pagefile.sys

DB21085I Instance "TPCC" uses DB2 code release "SQL07010" with level identifier "02010105" and informational tokens "DB2 v7.1.0", "n000524" and "".

Client Hardware

SYHWFE.TXT

The following hardware configuration information for the TPC-C Client front-ends was obtained from the Windows 2000 Computer Management/System Summary tool. All 96 clients are identically configured.

System Information report written at: 05/16/2000 11:08:34 AM
[System Summary]

Item	Value
OS Name	Microsoft Windows 2000 Server
Version	5.0.2195 Build 2195
OS Manufacturer	Microsoft Corporation
System Name	FSCLIENT49
System Manufacturer	IBM
System Model	Netfinity 5000
System Type	X86-based PC
Processor	x86 Family 6 Model 7 Stepping 3 GenuineIntel ~600 Mhz

Processor x86 Family 6 Model 7 Stepping 3 GenuineIntel ~600 Mhz
BIOS Version IBM BIOS Ver 15.0
Windows Directory C:\WINNT
System Directory C:\WINNT\System32
Boot Device \Device\Harddisk0\Partition1
Locale United States
User Name FSCLIENT49\tpcc
Time Zone Eastern Daylight Time
Total Physical Memory 523,800 KB
Available Physical Memory 423,916 KB
Total Virtual Memory 1,802,048 KB
Available Virtual Memory 1,624,204 KB
Page File Space 1,278,248 KB
Page File C:\pagefile.sys

System Information report written at: 05/16/2000 11:10:52 AM
[Adapter]

Item	Value
Name	[00000000] IBM Netfinity Fault Tolerance PCI Adapter
Adapter Type	Ethernet 802.3
Product Name	IBM Netfinity Fault Tolerance PCI Adapter
Installed	True
PNP Device ID	PCI\VEN_1022&DEV_2000&SUBSYS_20001014&REV_36\3&267A616A&0&48
Last Reset	5/15/2000 12:42:02 PM
Index	0
Service Name	PCNet5
IP Address	192.6.2.33
IP Subnet	255.255.255.0
Default IP Gateway	Not Available
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	00:06:29:39:61:0B
Service Name	PCnet
IRQ Number	17
I/O Port	0x2180-0x219F
Driver	c:\winnt\system32\drivers\pcntn5m.sys (33811, 4.23.00)

Name	[00000001] Intel(R) PRO/100+ Dual Port Server Adapter
Adapter Type	Ethernet 802.3
Product Name	Intel(R) PRO/100+ Dual Port Server Adapter
Installed	True
PNP Device ID	PCI\VEN_8086&DEV_1229&SUBSYS_10F08086&REV_05\4&28315C84&0&2010
Last Reset	5/15/2000 12:42:02 PM
Index	1
Service Name	E100B
IP Address	192.3.1.1
IP Subnet	255.255.255.0
Default IP Gateway	Not Available
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	00:90:27:FC:45:A6
Service Name	E100B
IRQ Number	19
I/O Port	0x7100-0x711F
Driver	c:\winnt\system32\drivers\e100bnt5.sys (80144, 4.01.67.0000)

Name	[00000002] Intel(R) PRO/100+ Dual Port Server Adapter
Adapter Type	Ethernet 802.3
Product Name	Intel(R) PRO/100+ Dual Port Server Adapter

Installed	True
PNP Device ID	PCI\VEN_8086&DEV_1229&SUBSYS_10F08086&REV_05\4&28315C84&0&2810
Last Reset	5/15/2000 12:42:02 PM
Index	2
Service Name	E100B
IP Address	192.3.2.1
IP Subnet	255.255.255.0
Default IP Gateway	Not Available
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	00:90:27:FC:45:A7
Service Name	E100B
IRQ Number	19
I/O Port	0x7120-0x713F
Driver	c:\winnt\system32\drivers\e100bnt5.sys (80144, 4.01.67.0000)

Name	[00000003] Intel(R) PRO/100+ Dual Port Server Adapter
Adapter Type	Ethernet 802.3
Product Name	Intel(R) PRO/100+ Dual Port Server Adapter
Installed	True
PNP Device ID	PCI\VEN_8086&DEV_1229&SUBSYS_10F08086&REV_05\4&666544D&0&2018
Last Reset	5/15/2000 12:42:02 PM
Index	3
Service Name	E100B
IP Address	192.3.3.1
IP Subnet	255.255.255.0
Default IP Gateway	Not Available
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	00:90:27:FC:44:D2
Service Name	E100B
IRQ Number	19
I/O Port	0x6100-0x611F
Driver	c:\winnt\system32\drivers\e100bnt5.sys (80144, 4.01.67.0000)

Name	[00000004] Intel(R) PRO/100+ Dual Port Server Adapter
Adapter Type	Ethernet 802.3
Product Name	Intel(R) PRO/100+ Dual Port Server Adapter
Installed	True
PNP Device ID	PCI\VEN_8086&DEV_1229&SUBSYS_10F08086&REV_05\4&666544D&0&2818
Last Reset	5/15/2000 12:42:02 PM
Index	4
Service Name	E100B
IP Address	192.3.4.1
IP Subnet	255.255.255.0
Default IP Gateway	Not Available
DHCP Enabled	False
DHCP Server	Not Available
DHCP Lease Expires	Not Available
DHCP Lease Obtained	Not Available
MAC Address	00:90:27:FC:44:D3
Service Name	E100B
IRQ Number	19
I/O Port	0x6120-0x613F
Driver	c:\winnt\system32\drivers\e100bnt5.sys (80144, 4.01.67.0000)

Name	[00000005] Intel(R) PRO/100+ Dual Port Server Adapter
Adapter Type	Ethernet 802.3

Product Name Intel(R) PRO/100+ Dual Port Server Adapter
 Installed True
 PNP Device ID PCI\VEN_8086&DEV_1229&SUBSYS_10F08086&REV_05\4&18A2AE64&0&2020
 Last Reset 5/15/2000 12:42:02 PM
 Index 5
 Service Name E100B
 IP Address 192.3.5.1
 IP Subnet 255.255.255.0
 Default IP Gateway Not Available
 DHCP Enabled False
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 00:90:27:FC:44:18
 Service Name E100B
 IRQ Number 22
 I/O Port 0x5100-0x511F
 Driver c:\winnt\system32\drivers\e100bnt5.sys (80144, 4.01.67.0000)

Name [00000006] Intel(R) PRO/100+ Dual Port Server Adapter
 Adapter Type Ethernet 802.3
 Product Name Intel(R) PRO/100+ Dual Port Server Adapter
 Installed True
 PNP Device ID PCI\VEN_8086&DEV_1229&SUBSYS_10F08086&REV_05\4&18A2AE64&0&2820
 Last Reset 5/15/2000 12:42:02 PM
 Index 6
 Service Name E100B
 IP Address 192.3.6.1
 IP Subnet 255.255.255.0
 Default IP Gateway Not Available
 DHCP Enabled False
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 00:90:27:FC:44:19
 Service Name E100B
 IRQ Number 22
 I/O Port 0x5120-0x513F
 Driver c:\winnt\system32\drivers\e100bnt5.sys (80144, 4.01.67.0000)

Name [00000007] RAS Async Adapter
 Adapter Type Not Available
 Product Name RAS Async Adapter
 Installed True
 PNP Device ID Not Available
 Last Reset 5/15/2000 12:42:02 PM
 Index 7
 Service Name AsyncMac
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled False
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address Not Available
 Service Name Not Available

Name [00000008] WAN Miniport (L2TP)
 Adapter Type Not Available
 Product Name WAN Miniport (L2TP)
 Installed True
 PNP Device ID ROOT\MS_L2TPMINIPORT\0000
 Last Reset 5/15/2000 12:42:02 PM

Index 8
 Service Name Rasl2tp
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled False
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address Not Available
 Service Name Rasl2tp
 Driver c:\winnt\system32\drivers\rasl2tp.sys (50800, 5.00.2179.1)

Name [00000009] WAN Miniport (PPTP)
 Adapter Type Wide Area Network (WAN)
 Product Name WAN Miniport (PPTP)
 Installed True
 PNP Device ID ROOT\MS_PPTPMINIPORT\0000
 Last Reset 5/15/2000 12:42:02 PM
 Index 9
 Service Name PptpMiniport
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled False
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 50:50:54:50:30:30
 Service Name PptpMiniport
 Driver c:\winnt\system32\drivers\raspptp.sys (47856, 5.00.2160.1)

Name [00000010] Direct Parallel
 Adapter Type Not Available
 Product Name Direct Parallel
 Installed True
 PNP Device ID ROOT\MS_PTMINIPORT\0000
 Last Reset 5/15/2000 12:42:02 PM
 Index 10
 Service Name Raspti
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled False
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address Not Available
 Service Name Raspti
 Driver c:\winnt\system32\drivers\raspti.sys (16880, 5.00.2146.1)

Name [00000011] WAN Miniport (IP)
 Adapter Type Not Available
 Product Name WAN Miniport (IP)
 Installed True
 PNP Device ID ROOT\MS_NDISWANIP\0000
 Last Reset 5/15/2000 12:42:02 PM
 Index 11
 Service Name NdisWan
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled False
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address Not Available
 Service Name NdisWan

Driver c:\winnt\system32\drivers\ndiswan.sys (90768, 5.00.2184.1)

System Information report written at: 05/16/2000 11:11:12 AM
[Drives]

Item Value

Drive A:
Description 3 1/2 Inch Floppy Drive

Drive C:

Description Local Fixed Disk

Compressed False

File System NTFS

Size 8.47 GB (9,097,125,888 bytes)

Free Space 6.71 GB (7,202,050,048 bytes)

Volume Name

Volume Serial Number D0652739

Partition Disk #0, Partition #0

Partition Size 8.47 GB (9,097,127,424 bytes)

Starting Offset 32256 bytes

Drive Description Disk drive

Drive Manufacturer (Standard disk drives)

Drive Model IBM-PSG DMVS09D !# SCSI Disk Device

Drive BytesPerSector 512

Drive MediaLoaded True

Drive MediaType Fixed hard disk media

Drive Partitions 1

Drive SCSI Bus 0

Drive SCSI Logical Unit 0

Drive SCSI Port 3

Drive SCSI Target ID 1

Drive SectorsPerTrack 63

Drive Size 9097159680 bytes

Drive Total Cylinders 1106

Drive Total Sectors 17767890

Drive Total Tracks 282030

Drive TracksPerCylinder 255

Client Software

SYSWFE.TXT - Operating system and DMBS software levels on Netfinity
5000 clients.

System Information report written at: 05/18/2000 11:10:48 AM
[System Summary]

Item Value

OS Name Microsoft Windows 2000 Server

Version 5.0.2195 Build 2195

OS Manufacturer Microsoft Corporation

System Name FSCLIENT01

System Manufacturer IBM

System Model Netfinity 5000

System Type X86-based PC

Processor x86 Family 6 Model 7 Stepping 3 GenuineIntel ~600 Mhz

Processor x86 Family 6 Model 7 Stepping 3 GenuineIntel ~600 Mhz

BIOS Version IBM BIOS Ver 15.0

Windows Directory C:\WINNT

System Directory C:\WINNT\System32

Boot Device \Device\Harddisk0\Partition1

Locale United States

User Name FSCLIENT01\tpcc

Time Zone Eastern Daylight Time

Total Physical Memory 523,800 KB

Available Physical Memory 370,668 KB

Total Virtual Memory 1,802,048 KB

Available Virtual Memory 1,540,136 KB

Page File Space 1,278,248 KB

Page File C:\pagefile.sys

DB21085I Instance "DB2" uses DB2 code release "SQL07010" with level
identifier "02010105" and informational tokens "DB2 v7.1.0", "n000401" and
"".

Appendix E: 60-Day Space

TPC-C 60-Day Space Requirements						
Warehouses	36,864	tpmC	440,879.95	tpmC/W	11.96	
Numbers are shown in Kbytes unless otherwise specified.						
Table	Rows	Data	Index	5% Space	8H Space	Total Space
Warehouse	41,760	4,608	468	253.80		5,329.80
District	417,600	47,744	6,528	2,713.60		56,985.60
Item	100,000	8,824	1,336	508.00		10,668.00
New-Order	37,584,000	7,483,136	7,516,928		2,533,803.63	17,533,867.63
History	1,252,800,000	78,339,200	0		13,233,020.15	91,572,220.15
Orders	1,252,800,000	47,299,584	55,799,808		17,415,499.92	120,514,891.92
Customer	1,252,800,000	1,002,545,024	90,527,872	54,653,644.80		1,147,726,540.80
Order-Line	12,529,684,864	849,902,336	391,552,768		209,706,001.60	1,451,161,105.60
Stock	4,176,000,000	1,340,815,872	83,520,128	71,216,800.00		1,495,552,800.00
Totals		3,326,446,328	628,925,836	125,873,920.20	242,888,325.29	4,324,134,409.49
Segment	LogDev Cnt.	Segment Size	Needed	Overhead		Not Needed
WDI	64	5,898,240.00	62,938.55	629.39		5,834,672.06
History	448	178,913,280.00	92,487,942.35	924,879.42		85,500,458.23
ORNU	448	264,241,152.00	139,429,247.14	1,394,292.47		123,417,612.39
Stock + Index	448	2,217,864,069.12	1,510,508,328	15,105,083.28		692,250,657.84
Customer + Index	448	1,695,804,293.12	1,159,203,806.21	11,592,038.06		525,008,448.85
Order Line + Index	448	2,832,665,149.44	1,465,672,716.66	14,656,727.17		1,352,335,705.62
ITEM1	1	40,960.00	10,774.68	107.75		30,077.57
Totals		7,195,427,143.68	4,367,375,753.59	43,673,757.54		2,784,377,632.56
Dynamic Space	975,541,120.00	Sum of Data for Order, Order-Line and History				
Static Space	3,149,378,721.74	Data + Index + 5% Space + Overhead - Dynamic Space				
Free Space	286,129,669.39	Total Segment Size - Dynamic Space - Static Space - Not needed				
Daily Growth	164,787,938.78	(Dynamic Space/Wc * 62.5)* tpmC				
Daily Spread	38,947,761.22	Free Space - 1.5 * Daily Growth (Zero If Negative)				
60-Day Space (KB)	15,373,520,721.68	Static Space + 60 (Daily Growth + Daily Spread)				
60-Day Space (GB)	14,661.33	60-Day Space in GB (Excludes OS,Paging and RDBMS Logs)				
Available (GB)	56,949.36	Total storage configured and available for database, minus logs, in a RAID-1E configuration				
Log File Storage Requirement						
Log Used (KB)	47,556,064.00	Log File Storage Used in a 20-Minute Interval				
Total N-O Txn	8,719,118.00	Total Count of New-Order Transactions Completed during the 20-Minute Interval				
Log per N-O Txn	5.45	KB of Log Storage Used per New-Order Transaction				
8 Hour Log (GB)	1,100.77	8-Hour Log Storage Required				
Log Configured (GB)	1,874.88	58.59GB per Node (RAID-5)				
Disk Capacity	MB	GB				
9.1GB 10K rpm	8,678	8.47				
18.2GB 10K rpm	17,356	16.95				
Space Usage	GB Needed	Disks Priced		GB Priced	GB Usable	TB Usable
60-Day (RAID-1)	14,661.33	0	9.1GB 10K rpm	0.00	0.00	
		6,720	18.2GB 10K rpm	113,898.75	56,949.375	
Total DB		6,720		113,898.75	56,949.38	
8hr Log (RAID-5)	1,100.77	256	9.1GB 10K rpm	4,339.00	3,796.63	
OS, DB2 (RAID-1)	256.00	64	18.2GB 10K rpm	542.38	271.19	
Total Space	16,018.10	7,040		118,780.13	61,017.19	59.58

Appendix F: Third-Party Quotations

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399

Tel 425 882 8080
Fax 425 936 7329
<http://www.microsoft.com/>

Microsoft

April 5, 2001

IBM Corp.
Chris King
IBM Corporation
3039 Cornwallis Road
Research Triangle Park, NC 27709

Chris:

Here is the information you requested regarding pricing for several Microsoft products to be used in conjunction with your TPC-C V5.0 benchmark testing.

All pricing shown is in US Dollars (\$).

Part Number	Description	Unit Price	Quantity	Price
C11-00821	Windows 2000 Server <i>Server license only - No CALs</i> <i>Discount schedule: Open Program - No Level</i>	\$ 738	1	\$ 738
C10-00475	Windows 2000 Advanced Server <i>Server license only - No CALs</i> <i>Discount schedule: Open Program - No Level</i>	\$ 2,399	1	\$ 2,399
048-00317	Visual C++ Professional 6.0 Win32	\$ 549	1	\$ 549
	3-year maintenance for above software	\$ 2,095	1	\$ 201,120

All products are currently orderable through Microsoft's normal distribution channels.

This quote is valid for the next 90 days.

If we can be of any further assistance, please contact Jamie Reding at (425) 703-0510 or jamiere@microsoft.com.

Reference ID: Ppmlj0105045269

Please include this Reference ID in any correspondence regarding this price quote.

Quote

Giganet, Inc.

Concord Office Center
2352 Main Street
Concord, MA 01742
(978) 461-0402 ext.352
(978)897-0284 Fax

Quote No.: 000407-01**Date:** March 1, 2001

Ship to: IBM Corp.
Bill to: Chris King
3039 Corwallis Road
Dept. 23UA Bldg. 060/D133
Research Triangle Park, NC 27709

F.O.B.	Terms
Concord, MA	Net 30

Qty	Part Number/ Description	Unit Price	Ext. Price
35	cLAN-1000 Giganet Host Adapter Card	\$795.00	\$27,825.00
35	cLAN-A1011 10 Meter Copper Cable	\$135.00	\$4,725.00
4	cLAN5300 30 port Cluster Switch	\$6,250.00	\$25,000.00
	3-Year Maintenance Price (7x24x4)	\$15,000.00	\$45,000.00
	TOTAL		\$57,550.00
	Actual shipping charges will be billed		

Prices are valid for 90 days from the date of this quote.

If you have any questions regarding this quote, please contact the GigaNet Sales Department at (978) 461-0402 X352.



Cisco Systems, Inc.
2300 Rexwoods Drive
Suite 300
Raleigh, NC 27607 USA
Ph: Ph: 919-788-1208
Fax: Fax: 919-788-1299

Price Quotation

Date: 3/19/01
To: Joe Jakubowski
IBM

Quote Number: 4Z2-RPT
Total Price: \$65,898.75

Ph: (919) 543-6693
Fax: (919) 486-2327

Product Number	Product Description	Qty	Unit List Price	Disc Price	Disc %	Extended Price
WS-C6506	Catalyst 6500 Test Lab Switch					
WS-CAC-1300W	Catalyst 6506 Chassis	1	\$7,995.00		25.000%	\$5,996.25
	Catalyst 6000 1300W AC					
	Power Supply	1	\$3,995.00		25.000%	\$2,996.25
WS-CAC-1300W/2	Catalyst 6000 Second 1300W					
	AC Power Supply	1	\$3,995.00		25.000%	\$2,996.25
CAB-7513AC	AC POWER CORD NORTH					
	AMERICA	2	\$0.00		25.000%	\$0.00
SFC6K-SUP-5.3.5	Catalyst 6000 Supervisor Flash					
	Image, Release 5.3(5)	1	\$0.00		25.000%	\$0.00
WS-X6K-SUP1A-PFC	Catalyst 6000 Supervisor					
	Engine1-A, 2GE, plus PFC	1	\$17,495.00		25.000%	\$13,121.25
MEM-C6K-FLC16M	Catalyst 6000 Supervisor					
	PCMCIA Flash Mem Card,					
	16MB Option	1	\$400.00		25.000%	\$300.00
WS-X6348-RJ-45	Catalyst 6000 48-port 10/100,					
	Upgradable to Voice, Enh QoS	3	\$12,995.00		25.000%	\$29,238.75
WS-G5484	1000BASE-SX "Short					
	Wavelength" GBIC (Multimode					
	only)	2	\$500.00		25.000%	\$750.00
	Maintenance and support					
	extended price is calculated for					
	5 years.					
CON-OSP-WS-C6506	24x7x4 OS Service,Catalyst					
	6506	1	\$10,500.00		0.000%	\$10,500.00

FOB Point: Origin
Ship Date:
Quote Valid Until: 06/19/2001

Payment Terms: Net 30
Installation: Available on Request and Billable
Warranty: 90 days

Signed:

Notes:

Bob Blum

Netfinity Lab Equipment

This price quotation does not constitute an offer by Cisco to sell products, but is instead an invitation to issue a purchase order to Cisco until the Quotation Valid date specified on this Price Quotation. Such a purchase order will be subject to Cisco's standard procedures, terms, and conditions for the acceptance of purchase orders. This order may be subject to sales tax, VAT, duty and freight charges even if not noted on this quote.