

TPC Benchmark™ C
Full Disclosure Report

for

IBM Netfinity 8500R

using

IBM DB2 Universal Database V7.1

and

Microsoft Windows 2000 Advanced Server

Submitted for Review

July 3, 2000



First Edition - July 2000

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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.

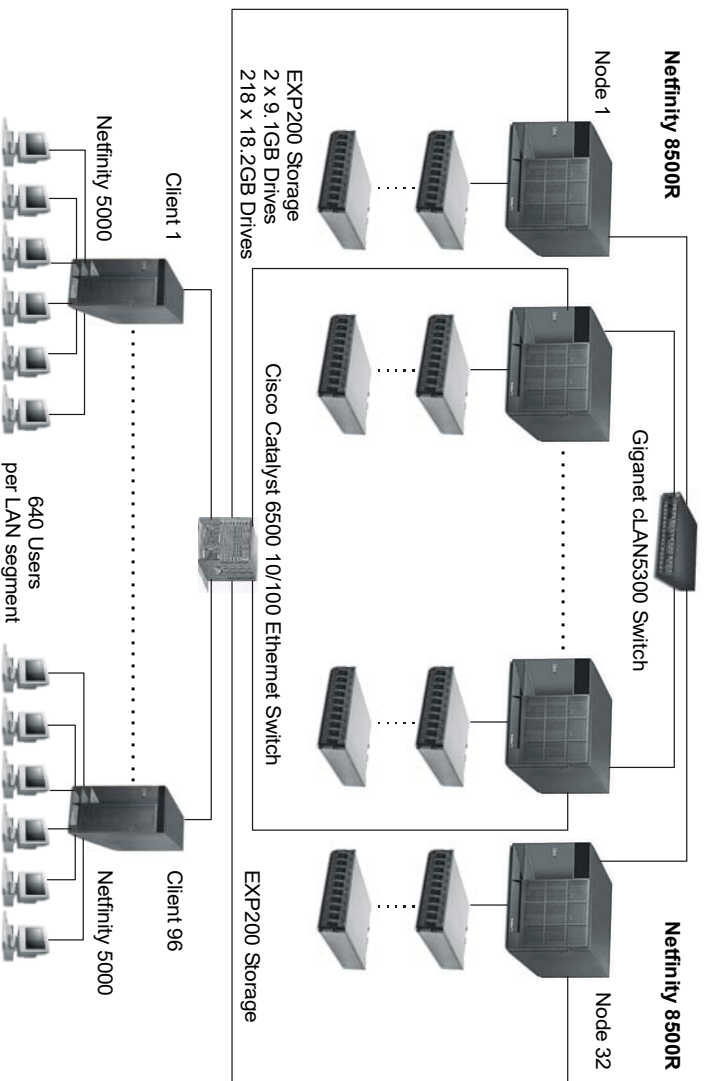


IBM Netfinity[®] 8500R c/s with DB2 UDB 7.1

TPC-C Rev 3.5

Report Date: July 3, 2000

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$14,232,696	440,879.95 tpmC	\$32.28/tpmC	Dec. 7, 2000
Processors	Database Manager	Operating System	Other Software
128 Intel [®] Pentium [®] III Xeon [™] 700MHz 2MB L2 Cache	DB2 [®] UDB 7.1	Microsoft [®] Windows [®] 2000 Advanced Server	Microsoft [®] COM+ Microsoft Visual C++ 6.0
			Number of Users
			368,640



System Component	Qty	Each of 32 Server Nodes	Qty	Each of 96 Clients
Processors	4	700MHz Pentium III Xeon w/2MB L2 Cache	2	600MHz Pentium III w/512KB L2 Cache
Cache	8	512MB SDRAM ECC	4	128MB
Memory	8	Netfinity ServerRAID-3HB Ultra2 SCSI Adapter	1	Wide Ultra SCSI Onboard
Disk Controllers	2	9.1GB (10000 rpm)	1	9.1GB Hard Disk
Disk Drives	218	18.2GB (10000 rpm)		
	1	Giganet eLAN-1000 Adapter		
		116TB (59.58TB online)		
Total Storage				
Other	1	3502-108 DLT Tape Autoloader		
Tape Drive	1			
Interconnect	2	Giganet eLAN5300 Switch		

IBM Corporation

Netfinity 8500R c/s with DB2 UDB 7.1

TPC-C Revision 3.5

Report Date: July 3, 2000

Description	Order Number	Third-Party Brand	Pricing	Unit Price	Qty	Ext. Price	5-Yr. Maint.*
Server Hardware							
Netfinity 8500R 700MHz/2MB Pentium III Xeon*	86818RY	IBM		\$18,372	32	\$587,904	\$329,440
700MHz/2MB L2 Cache Processor Upgrade	10K2166	IBM		5,460	96	524,160	0
8500R Memory Expansion Card	28L4454	IBM		557	32	17,824	0
8500 >4X Accelerator Filter	10K2335	IBM		1,113	32	35,616	0
512MB ECC SDRAM RDIMM Memory Kit	20L0249	IBM		2,168	256	555,008	0
Netfinity ServerRAID-3HB Ultra2 SCSI Adapter	37L6086	IBM		1,602	256	410,112	0
Netfinity Ultra2 SCSI 4m Cable	03K9311	IBM		110	736	80,960	0
EtherJet 10/100 PCI Management Adapter	34L1210	IBM		58	32	1,856	0
E54 15" (13.8" Viewable) Color Monitor*	6331B2N	IBM		165	32	5,280	14,400
3502-108 DLT Tape Autoloader*	3502108	IBM		8,017	1	8,017	2,650
IBM Smart-UPS Model 3000RMB	94G6676	IBM		1,690	32	54,080	0
Netfinity Rack*	9306900	IBM		1,536	78	119,808	98,280
Side Panel Kit	94G6669	IBM		175	12	2,100	0
Giganet cLAN-1000 Host Adapter (incl. 10%)	cLAN-1000	Giganet		795	35	27,825	75,000
Giganet cLAN5300 30-Port Switch (incl. 10%)	cLAN5300	Giganet		6,250	4	25,000	Incl. above
Giganet cLAN-A1011 10M Cable (incl. 10%)	cLAN-A1011	Giganet		135	35	4,725	Incl. above
Storage Hardware							
Netfinity EXP200 Rack Storage Enclosure*	35301RU	IBM		2,311	704	1,626,944	1,253,120
9.1GB 10K Ultra160 SCSI Drive	00N8207	IBM		356	64	22,784	0
18.2GB 10K Ultra160 SCSI Drive	00N8208	IBM		534	6,976	3,725,184	0
Subtotal						\$7,835,187	\$1,772,890
Server Software							
DB2 UDB EEE V7.1 Program Pack	11K7641	IBM		22,600	1	\$22,600	\$0
DB2 UDB EEE V7.1 Processor Ent.	11K8164	IBM		22,500	127	2,857,500	0
5-Year Maintenance (included w/software)	11K8164	IBM			2		0
Microsoft Windows 2000 Advanced Server		Microsoft		3,999	32	127,968	0
5-Year Maintenance for Software		Microsoft		8,425	1		8,425
Subtotal						\$3,008,068	\$8,425
Client Hardware							
Netfinity 5000 / 600MHz/512KB Pentium III*	86596RY	IBM		2,783	96	\$267,168	\$546,720
600MHz/512KB Pentium III Upgrade	33L5106	IBM		398	96	38,208	0
9.1GB 10K Ultra160 SCSI Drive	00N8207	IBM		356	96	34,176	0
128MB DIMMs	01K7262	IBM		373	288	107,424	0
Intel Pro/100+ Dual-Port Ethernet Adapter**	8472	Intel		219	288	63,072	0
E54 15" (13.8" Viewable) Color Monitor*	6331B2N	IBM		165	96	15,840	43,200
Subtotal						\$525,888	\$589,920
Client Software							
Microsoft Windows 2000 Server with COM+		Microsoft		999	96	99,904	incl. above
Microsoft Visual C++ Professional 6.0		Microsoft		549	1	549	incl. above
Subtotal						\$96,453	\$0
User Connectivity							
8-Port 10Mbps Hub** (10% spares***)	DEH2924	Generic		25	50,688	\$1,267,200	\$0
Cisco Catalyst 6500 48-Port 10/100 RJ-45	WSX6248RJ45	Cisco		55,399	1	55,399	52,500
Subtotal						\$1,322,599	\$52,500
						(979,234)	
Total						\$12,788,195	\$2,423,735

Notes: * The standard 3-year warranty and the extended warranty on IBM hardware is for 7x24, 4-hour response. ** Five-year warranty. *** 10% or minimum 2 spares are added in place of on-site service (products have a 5-year return-to-vendor-warranty)

Pricing: 1 - Software House International; 2 - IBM; 3 - Microsoft Corp.; 4 - Giganet; 5 - Cisco

Audited by Francoise Raab of InfoSizing, Inc.

Five-Year Cost of Ownership: \$14,232,696

tpmc Rating: 440,879.95
\$ / tpmc: \$32.28

Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchases are not permitted. All discounts reflect standard pricing policies for the listed components. For complete details, see the pricing sections of the TPC benchmark specification. If you find that stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.

Numerical Quantities Summary

MQTn, 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:

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

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

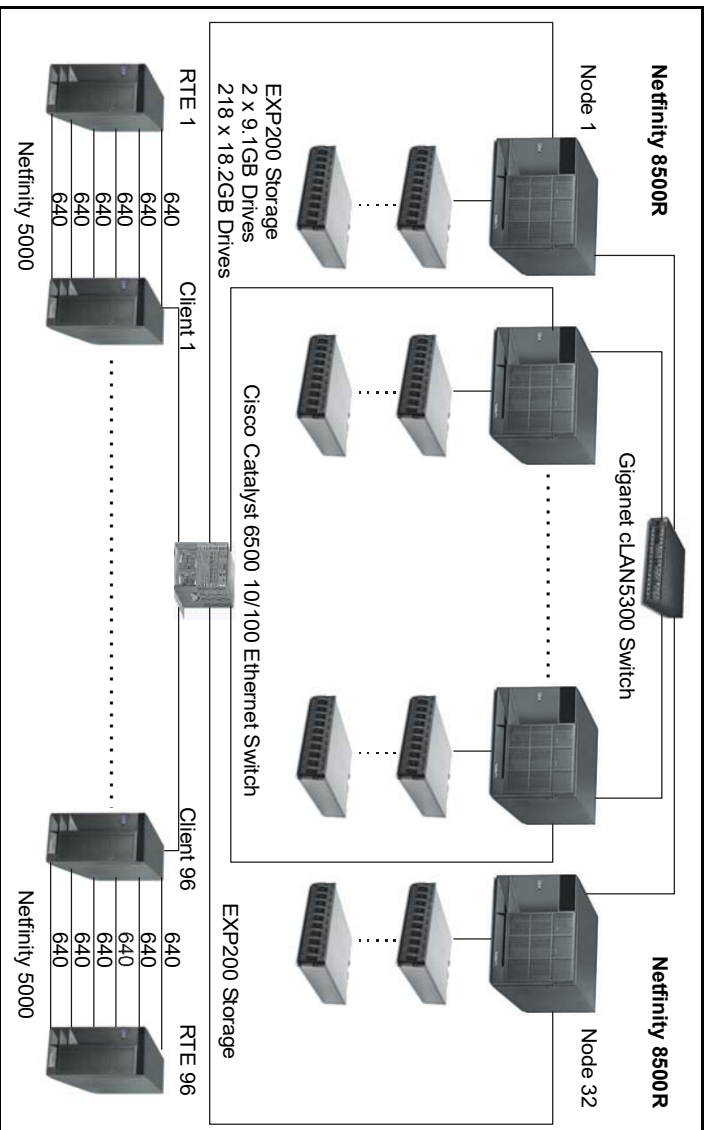
Appendix C contains the tunable parameters for the database, the operating system, and the transaction monitor.

Configuration Diagrams

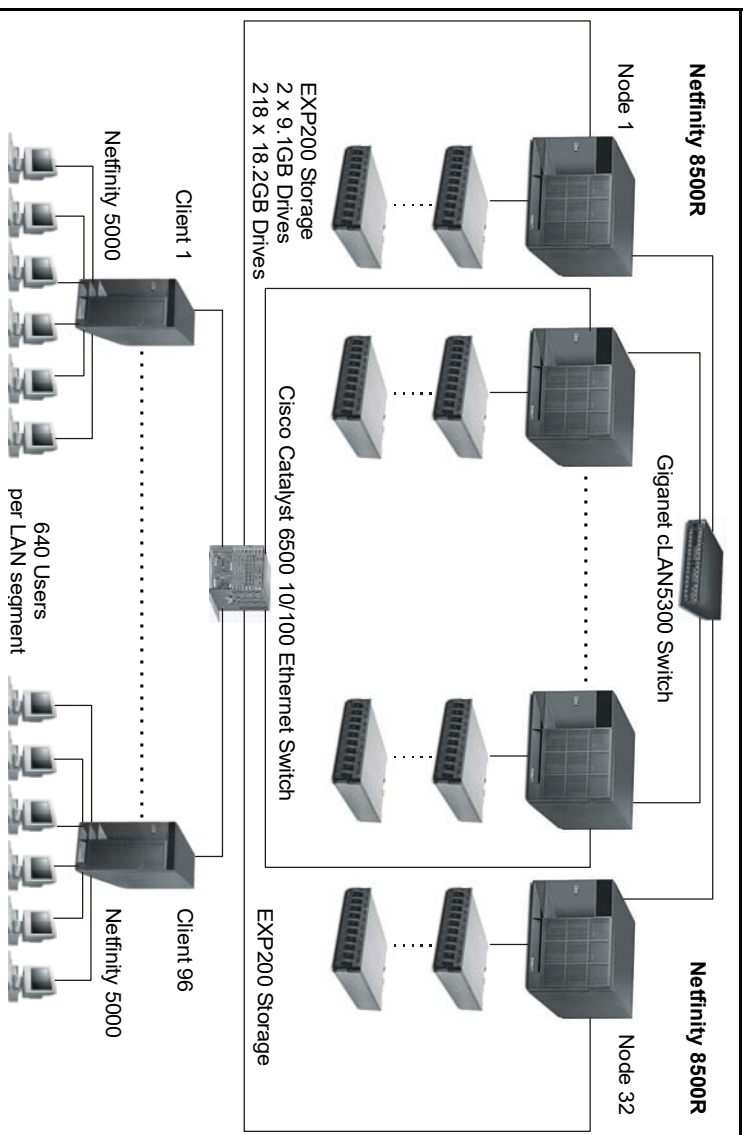
Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences.

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

IBM Netfinity 8500R Measured Configuration



IBM Netfinity 8500R 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 00N8208). The 38 drives were configured on one of the 32 nodes as follows:

- v Eight (8) drives were configured as a RAID-5 disk array for the database log.
- v 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 00N8208). 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. The priced configuration included 10Mbps hubs. Benchmark 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 EtherJet PCI Management 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/output 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 (ipcc.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_yrtd) for all Districts within a specific Warehouse is equal to the balance (w_yrtd) 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 [$\min(o_id)$] 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:

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

4. For each District within a Warehouse, the sum of Order Line counts [$\text{sum}(o_ol_cnt)$] 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:

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

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.

- v *Permanent irrecoverable failure of any single durable medium containing TPC-C database tables or recovery log data*
- v *Instantaneous interruption (system crash/system hang) in processing that requires system reboot to recover*
- v *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 ServerRAID 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 Gigaset 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

Table 4-2. Distribution of Tables and Logs

Controller	Disk	Drives	Partition	Size	Use
1	Disk 0 Disk 1	2 - 9.1GB RAID-1 8 - 18.2GB RAID-5	C: NTFS	8.47GB	OS
			1 RAW	58.59GB	DB Log
2	Disk 2	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	ITEM1 (only on Node 1, not used on other nodes)
			11 (All RAW)	1.11GB	TEMP
3	Disk 3	15 - 18.2GB RAID-1E	F: NTFS	64GB	FLATADATA1
			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			
3	Disk 4	15 - 18.2GB RAID-1E	G: NTFS	64GB	FLATDATA2
			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			
3	Disk 5	15 - 18.2GB RAID-1E	H: NTFS	64GB	BK101 (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			
3	Disk 5	15 - 18.2GB RAID-1E	I: NTFS	64GB	BK102 (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			

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
5	Disk 8	15 - 18.2GB RAID-1E	11 (All RAW)	1.11GB	TEMP
			J: NTFS	64GB	BK103 (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			
5	Disk 9	15 - 18.2GB RAID-1E	11 (All RAW)	1.11GB	TEMP
			L: NTFS	64GB	Not Used
			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			
5	Disk 7	15 - 18.2GB RAID-1E	11 (All RAW)	1.11GB	TEMP
			K: NTFS	64GB	BK104 (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			
5	Disk 9	15 - 18.2GB RAID-1E	11 (All RAW)	1.11GB	TEMP
			M: NTFS	64GB	Not Used
			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			

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			
			N: NTFS	64GB	BK201 (Backup)			
			Disk 11	15 - 18.2GB RAID-1E	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	W/DI						
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			
			P: NTFS	64GB	BK203 (Backup)			
			Disk 13	15 - 18.2GB RAID-1E	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						
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)	1.11GB	TEMP
R: NTFS	64GB	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	W/DI	
		10	40MB	Not Used	
		11 (All RAW)	1.11GB	TEMP	
S: NTFS	64GB	Not Used			

The Netfinity ServeRAID controller offers a standard 32MB volatile cache and a 32MB non-volatile, redundant, removable, 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, DLI, 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.

180-Day Space Requirement

Details of the 180-day space computations, along with proof that the database is configured to sustain 8 hours of growth for the dynamic tables (Order, Order-Line, and History) must be disclosed (see Clause 4.2.3). (8.1.5.5)

See Appendix E for details about how the 180-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: \$32.28 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

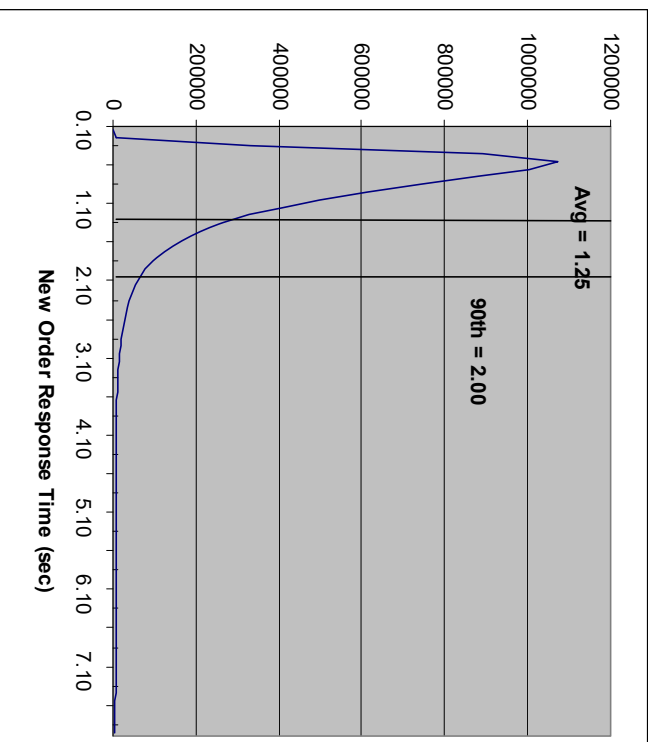


Figure 5-2. Payment Transaction - Response Time Frequency Distribution

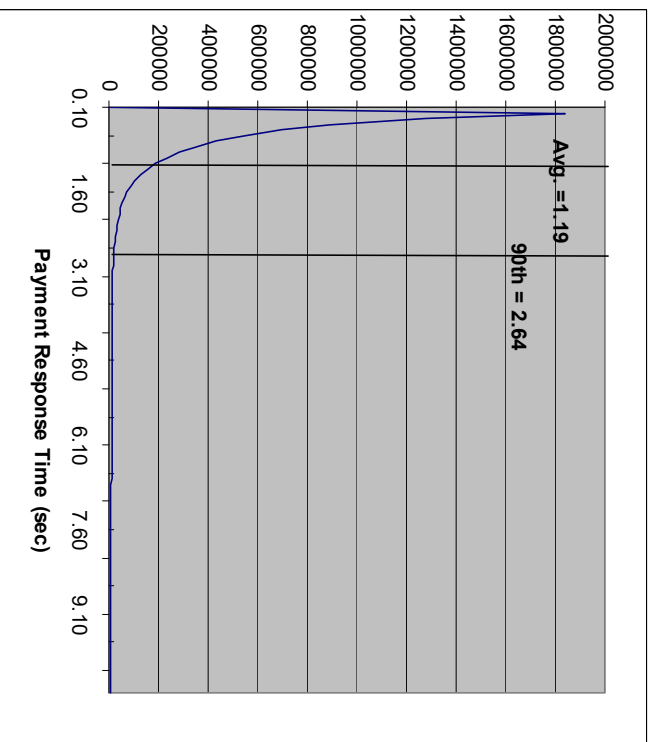


Figure 5-3. Order-Status Transaction - Response Time Frequency Distribution

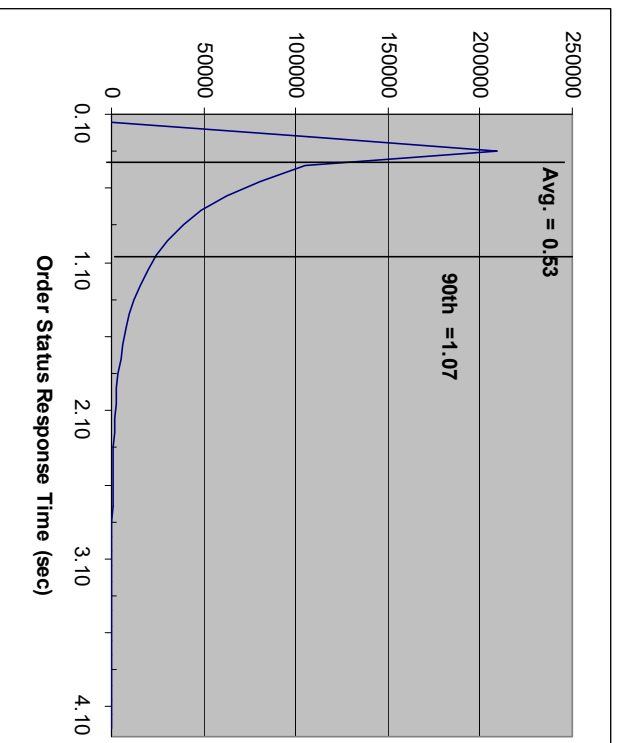


Figure 5-4. Delivery Transaction - Response Time Frequency Distribution

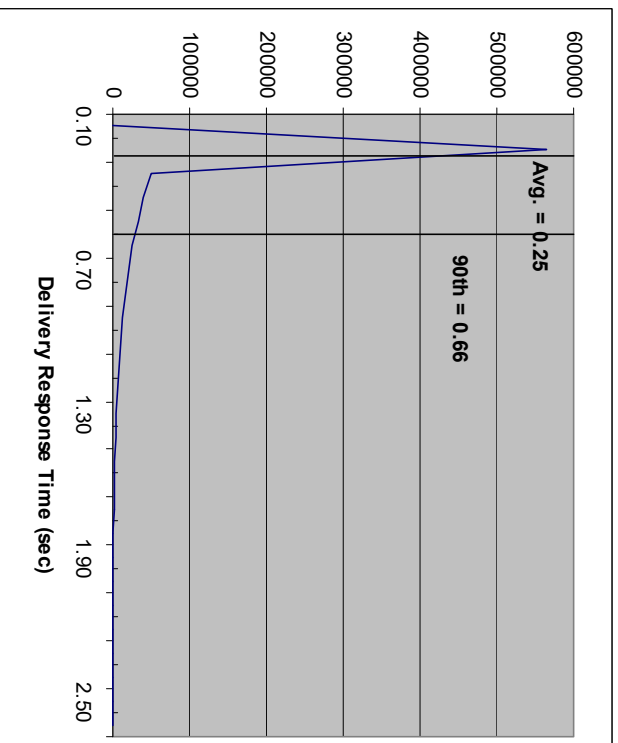
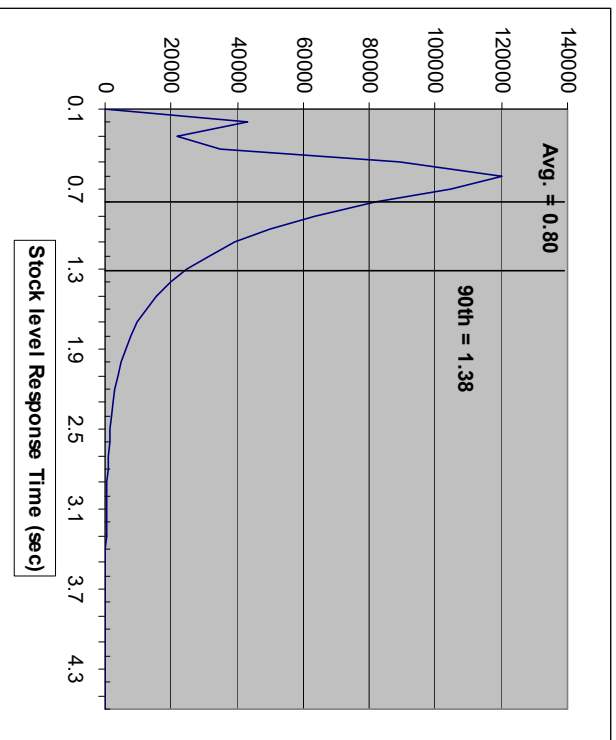


Figure 5-5. Stock-Level Transaction - Response Time Frequency Distribution



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

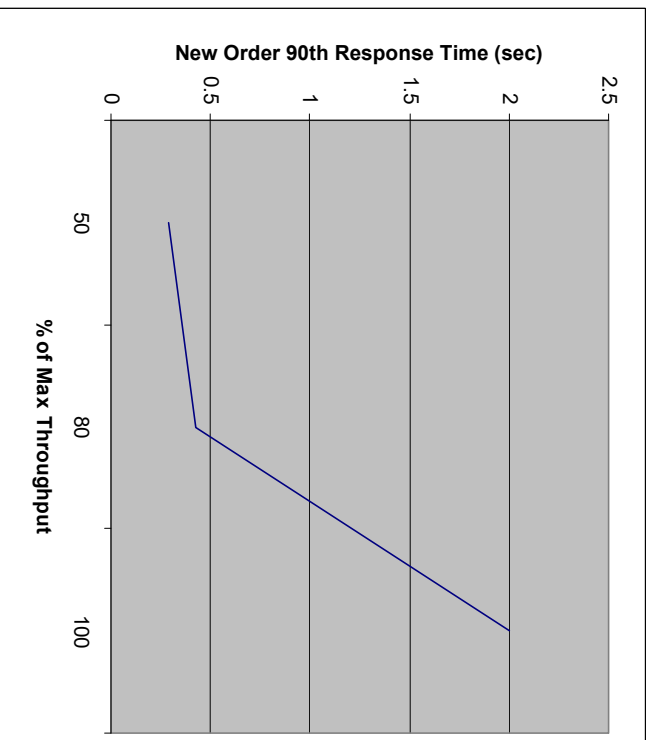
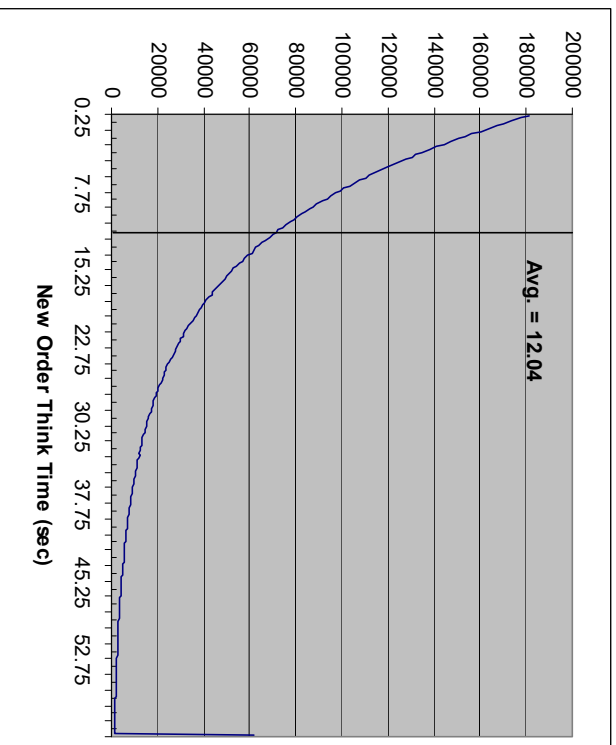


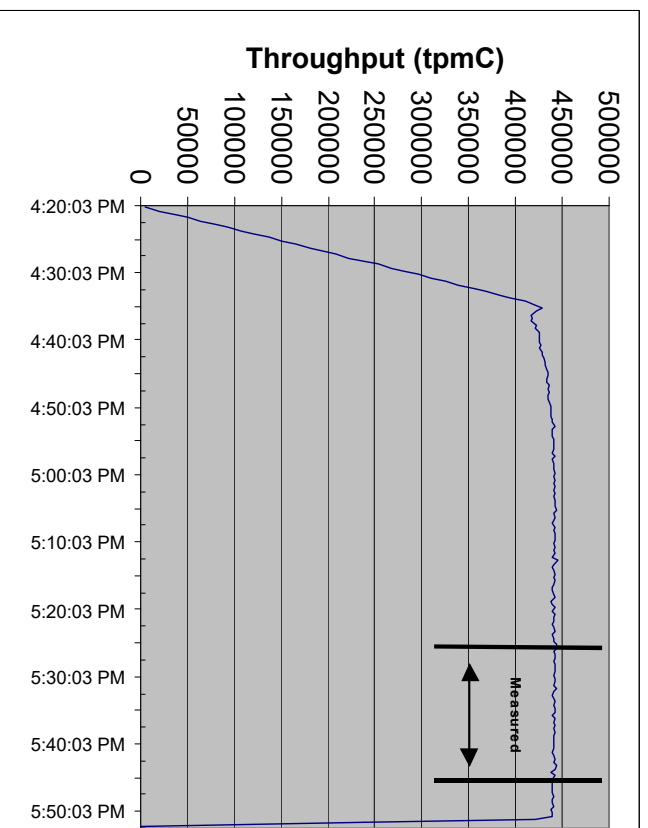
Figure 5-7. New-Order Think Time Distribution



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 on the IBM Netfinity 8500R 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 Gigaset 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. The priced configuration included 10Mbps hubs. Benchmark 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 and reviewed by the auditor.

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

A detailed list of all hardware and software, including the 5-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)

- v Maximum Qualified Throughput: 440,879.95 tpmC
- v Price per tpmC: \$32.28 per tpmC
- v Five-year cost of ownership: \$14,232,696

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:

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

The component pricing based on usage is shown below:

- v 32 copies of Microsoft Windows 2000 Advanced Server (one server includes 25 CALs)
- v 96 copies of Microsoft Windows 2000 Server, including 25 CALs
- v 5-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 5-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 Benchmark™C," 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

INFO SIZING



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

June 30, 2000

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

Platform: **IBM Netfinity 8500R 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 Netfinity 8500R (specification for each of 32 nodes)				
4 x Pentium III Xeon (700 MHz)	4 GB Main 2 MB L2-cache/cpu	2 x 9.1 GB 218 x 18.2 GB	2.00 Seconds	440,879.95
Ninety-six (96) Clients: Netfinity 5000 (Specification for each)				
2 x Pentium III (600 MHz)	512 MB Main 512 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 180 day storage requirement was correctly computed
- The system pricing was verified for major components and maintenance

Additional Audit Notes:

The measured system included (6938) 10K-3 Wide Ultra SCSI 18.2GB disks (part number 36L9749) that were substituted by (6938) 10K Ultra160 SCSI 18.2 GB disks (part number 00N8208) 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.

Respectfully Yours,



Francois 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_BCONN         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 = wsprintf(szTmp, "%s\n",szStr);
    if (m_szLoc)
        j += wsprintf(szTmp+j, "Location=%s\n",m_szLoc);
    if (m_szMsg)
        j += wsprintf(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(LPCTSTR 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;
        };
    };
};

```

```

};

////////////////////////////////////
// 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 *pjCount,
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 = SQLAllocStmnt(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);

    SQLFreeStmnt(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 = SQLAllocStmnt(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=SQLFreeStmnt(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
#ifdef 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 definations 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 ofTPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h" // ODBC implementation ofTPC-C txns
#include "..\..\db_db2_dll\src\tpcc_odbc_db2.h" // DB2 ODBC implementation ofTPC-C txns

// Txn monitor layer includes
#include "..\..\tm_com_dll\src\tpcc_com.h" // COM Services implementation onTPC-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 *txnDelilog= NULL; //used
to log delivery transaction information

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;
// number of buffers free
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
* LPVOID lpReserved reserved for future
use
*
* RETURNS: BOOL FALSE errors occurred in
initialization TRUE
DLL successfully initialized
*/

BOOL WINAPI DllMain(HANDLE hModule, DWORD ul_reason_for_call, LPVOID lpReserved)
{
    DWORD i;
    char szEvent[LEN_ERR_STRING]= "0";

```

```

char szLogFile[128];
char szDllName[128];
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 ( ReadTPCCRRegistrySettings( &Reg ) )
                throw new CWEBCLNT_ERR(
                    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 CWEBCLNT_ERR(
                        ERR_LOADDLL_FAILED, szDllName, GetLastError() );

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

```

```

                strcat( szDllName, "tpcc_encina.dll");
                hLibInstanceTm = LoadLibrary( szDllName );
                if (hLibInstanceTm == NULL)
                    throw new CWEBCLNT_ERR(
                        ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                // get function pointer to wrapper for class constructor
                pCTPCC_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 CWEBCLNT_ERR(
                        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 CWEBCLNT_ERR(
                        ERR_LOADDLL_FAILED, szDllName, GetLastError() );

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

                GetWareHouseTable(
                    (void **)&pWareHouseArray, // array of ints
                    &iCount,
                    &iTotlWhs,
                    Reg.szDbUser, // user name for login
                    Reg.szDbPassword, // password for login
                    Reg.szDbName); // name

                pbLocalWhsTbl = (BYTE
                *)malloc(sizeof(BYTE)*iTotlWhs+ 1);

                if (!pbLocalWhsTbl)
                    throw new CWEBCLNT_ERR(
                        ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );

                memset((void*)pbLocalWhsTbl,0,sizeof(BYTE)*iTotlWhs
                + 1);

                for (iLoop=0;iLoop<iCount;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() );

                // get function pointer to wrapper for class
                constructor
                // get function pointer to wrapper for class
                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
                    InitializeCriticalSection(&DelBuffCriticalSection);
                    hWorkerSemaphore = CreateSemaphore( NULL, 0,
                    dwDelBuffFreeCount= dwDelBuffSize;
                    InitJulianTime(NULL);
                    // create unique log file name based on
                    SYSTEMTIME Time;
                    GetLocalTime( &Time);
                    wsprintf( szLogFile,
                    Reg.szPath, Time.wYear % 100,
                    Time.wMonth, Time.wDay, Time.wHour, Time.wMinute );
                    txnDelilog = new CTxnLog(szLogFile,
                    //write event into txn log for START
                    txnDelilog->WriteCtrlRecToLog(TXN_EVENT_START,
                    szMyComputerName, sizeof(szMyComputerName));
                    // allocate structures for delivery buffers and threadmgmt
                    pDeliHandles = new HANDLE[dwNumDeliveryThreads];
                    pDelBuff = new
                    DELIVERY_TRANSACTION[dwDelBuffSize];
                    // launch DeliveryWorkerThread to perform actual delivery
                    for(i=0; i<dwNumDeliveryThreads; i++)
                    {
                        pDeliHandles[i]= (HANDLE)_beginthread(
                        DeliveryWorkerThread, 0, NULL );
                        if (pDeliHandles[i]==
                        INVALID_HANDLE_VALUE)
                            throw new CWEBCLNT_ERR(
ERR_DELIVERY_THREAD_FAILED);
                    }
                }
            }
        }
    }
}

```

```

        break;
    case DLL_PROCESS_DETACH:
        if (dwNumDeliveryThreads)
        {
            if (txnDelilog != NULL)
            {
                //write event into txn log for STOP
                txnDelilog->WriteCtrlRecToLog(TXN_EVENT_STOP,szMyComputerName, sizeof(szMyComputerName));

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

            delete [] pDeliHandles;
            delete [] pDelBuff;

            CloseHandle( hWorkerSemaphore );
            CloseHandle( hDoneEvent );
            DeleteCriticalSection(&DelBuffCriticalSection);
        }

        DeleteCriticalSection(&TermCriticalSection);

        if (hLibInstanceTm != NULL)
            FreeLibrary( hLibInstanceTm );
        hLibInstanceTm = NULL;

        if (hLibInstanceDb != NULL)
            FreeLibrary( hLibInstanceDb );
        hLibInstanceDb = NULL;

        Sleep(500);
        break;

    default:
        /* nothing */;
}
}
catch (CBaseErr *e)
{
    WriteMessageToEventLog( e->ErrorText() );
    delete e;
    TerminateExtension(0);
    return FALSE;
}
catch (...)
{
    WriteMessageToEventLog(TEXT("Unhandled exception. DLL could not load.));
    TerminateExtension(0);
    return FALSE;
}

```

```

    }
    return TRUE;
}

/* FUNCTION: GetExtensionVersion
*
* PURPOSE: This function is called by the inet service when the DLL is first loaded.
*
* ARGUMENTS: HSE_VERSION_INFO *pVer passed in structure in which to place expected version
number.
*
* RETURNS: TRUE inet service expected return value.
*/
BOOL WINAPI GetExtensionVersion(HSE_VERSION_INFO *pVer)
{
    pVer->dwExtensionVersion = MAKELONG(HSE_VERSION_MINOR, HSE_VERSION_MAJOR);
    lstrcpy(pVer->lpszExtensionDesc, "TPC-C Server.", HSE_MAX_EXT_DLL_NAME_LEN);

    // 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 the inet service when the DLL is about to be unloaded.
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
calls this function passing in thehttp string.
*
* ARGUMENTS: EXTENSION_CONTROL_BLOCK *pECB structure pointer to passed in internet

```



```

*
*           service information.
*
* RETURNS:          DWORD   HSE_STATUS_SUCCESS
*           connection can be dropped if error
*
HSE_STATUS_SUCCESS_AND_KEEP_CONN keep connect valid comment sent
*
* COMMENTS:        None
*
*/

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

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

#ifdef ICECAP
    StartCAP();
#endif

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

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

                throw new CWEBCLNT_ERR( ERR_INVALID_TERMID );
            }

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

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

        switch(iCmd)

```

```

{
case 0:
    WelcomeForm(pECB, szBuffer);
    break;

case 1:
    switch( FormId )
    {
        case WELCOME_FORM:
        case MAIN_MENU_FORM:
            break;
        case NEW_ORDER_FORM:
            ProcessNewOrderForm(pECB, TermId, szBuffer);
            break;
        case PAYMENT_FORM:
            ProcessPaymentForm(pECB, TermId, szBuffer);
            break;
        case DELIVERY_FORM:
            ProcessDeliveryForm(pECB, TermId, szBuffer);
            break;
        case ORDER_STATUS_FORM:
            ProcessOrderStatusForm(pECB, TermId, szBuffer);
            break;
        case STOCK_LEVEL_FORM:
            ProcessStockLevelForm(pECB, TermId, szBuffer);
            break;
    }
    break;

case 2:
    // new-order selected from menu; display new-order input form
    MakeNewOrderForm(TermId, NULL, INPUT_FORM, szBuffer);
    break;

case 3:
    // payment selected from menu; display payment input form
    MakePaymentForm(TermId, NULL, INPUT_FORM, szBuffer);
    break;

case 4:
    // delivery selected from menu; display delivery input form
    MakeDeliveryForm(TermId, NULL, INPUT_FORM, szBuffer);
    break;

case 5:
    // order-status selected from menu; display order-status input form
    MakeOrderStatusForm(TermId, NULL, INPUT_FORM, szBuffer);
    break;

case 6:
    // stock-level selected from menu; display stock-level input form
    MakeStockLevelForm(TermId, NULL, INPUT_FORM, szBuffer);
    break;

case 7:
    // ExitCmd
    TermDelete(TermId);
    WelcomeForm(pECB, szBuffer);
    break;

case 8:
    SubmitCmd(pECB, szBuffer);
    break;

case 9:

```

```

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

#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];

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

```

```

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

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

        (VOID) DeregisterEventSource(hEventSource);
    }
}

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

/*static*/ void DeliveryWorkerThread(void *ptr)
{
    CTPCC_BASE *pTxn = NULL;
    DELIVERY_TRANSACTION delivery;
    PDELIVERY_DATA pDeliveryData;
    TXN_RECORD_TPCC_DELIV_DEFtxnDeliRec;

    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
                EnterCriticalSection(&DelBuffCriticalSection);
                delivery = *(pDelBuff+dwDelBuffBusyIndex);
                dwDelBuffFreeCount++;
                dwDelBuffBusyIndex++;
                if (dwDelBuffBusyIndex == dwDelBuffSize) // wrap-around if at
                    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 we can do...
        WriteMessageToEventLog(TEXT("Unhandledexception 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 relevant information out of the http command passed in from
* the browser.
*
* COMMENTS: If this is the initial connection i.e. client is at welcome screen then
* there will not be a terminal id or current form id. If this is the case
* then the pTermid and pFormid return values are undefined.
*/

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

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

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

```

```

// 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>"
        "<font face='Courier New'><PRE>"
        "Compiled: \"__DATE__\", \"__TIME__"
        "Source: \"__FILE__\" (\"__TIMESTAMP__")
        "</PRE></font>"
        "<FORM ACTION='tpcc.dll'"
        "METHOD='GET'>"
        "NAME='STATUSID' VALUE='\"0\">"
        "<INPUT TYPE='hidden'"
        "NAME='ERROR' VALUE='\"0\">"
        "<INPUT TYPE='hidden'"
        "NAME='FORMID' VALUE='\"1\">"
        "<INPUT TYPE='hidden'"
        "NAME='TERMID' VALUE='\"0\">"
        "<INPUT TYPE='hidden'"
        "NAME='SYNCID' VALUE='\"0\">"

```

```

        "INPUT TYPE="hidden"
NAME="VERSION" VALUE="" WEBCLIENT_VERSION "">
);

sprintf( szTmp, "Configuration Settings:<BR><font face="Courier New" color="blue"><PRE>"
        "Txn Monitor      = <B>%s</B><BR>"
        "Database protocol = <B>%s</B><BR>"
        "Max Connections   = <B>%d</B><BR>"
        "# of Delivery Threads = <B>%d</B><BR>"
        "Max Pending Deliveries = <B>%d</B><BR>"
        , szTxnMonNames[Reg.eTxnMon], szDBNames[Reg.eDB_Protocol],
        Reg.dwMaxConnections, dwNumDeliveryThreads, dwDelBuffSize );

strcat( szBuffer, szTmp);

if (Reg.eTxnMon == COM)
{
    sprintf( szTmp, "COM Single Pool   = <B>%s</B><BR>",
            Reg.bCOM_SinglePool ? "YES" : "NO" );
    strcat( szBuffer, szTmp);
}

strcat( szBuffer, "</PRE></font>");

if (Reg.eTxnMon == None)
    // connection options may be specified when not using atxn monitor
    sprintf( szTmp, "Please enter your database options for this connection:<BR>"
            "<font face="Courier New"
color="blue"><PRE>"
            "DB Server   = <INPUT
NAME="db_server" SIZE=20 VALUE=""%s" "><BR>"
            "DB User ID   = <INPUT NAME="db_user"
SIZE=20 VALUE=""%s" "><BR>"
            "DB Password = <INPUT
NAME="db_passwd" SIZE=20 VALUE=""%s" "><BR>"
            "DB Name     = <INPUT
NAME="db_name" SIZE=20 VALUE=""%s" "><BR>"
            "</PRE></font>"
            , Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword, Reg.szDbName
);

else
    // if using a txn monitor, connection options are determined from registry; can't
    // set per user. show options fyi
    sprintf( szTmp, "Database options which will be used by the transaction monitor:<BR>"
            "<font face="Courier New"
            "DB Server   = <B>%s</B><BR>"
            "DB User ID   = <B>%s</B><BR>"
            "DB Password = <B>%s</B><BR>"
            "DB Name     = <B>%s</B><BR>"
            "</PRE></font>"
            , Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword, Reg.szDbName
);

strcat( szBuffer, szTmp);

sprintf( szTmp, "Please enter your Warehouse and District for this session:<BR>"
        "<font face="Courier New" color="blue"><PRE>");
strcat( szBuffer, szTmp);

```

```

        strcat( szBuffer, "Warehouse ID = <INPUT NAME="w_id" SIZE=5><BR>"
        "District ID = <INPUT NAME="d_id"
SIZE=2><BR>"
        "</PRE></font><HR>"
        "<INPUT TYPE="submit" NAME="CMD"
        "</FORM></BODY></HTML>");
}

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

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

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

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

    if (Reg.eTxnMon == None)
    {
        // parse Server name
        GetKeyValue(&ptr, "db_server", szServer, sizeof(szServer), ERR_NO_SERVER_SPECIFIED);
        // parse User name
        GetKeyValue(&ptr, "db_user", szUser, sizeof(szUser), NO_ERR);
        // parse Password
        GetKeyValue(&ptr, "db_passwd", szPassword, sizeof(szPassword), NO_ERR);
        // parse Database name
        GetKeyValue(&ptr, "db_name", szDatabase, sizeof(szDatabase), NO_ERR);
    }

    // parse warehouse ID
    int w_id = GetIntKeyValue(&ptr, "w_id", ERR_HTML_ILL_FORMED, ERR_W_ID_INVALID);
    if ( w_id < 1 )
        throw new CWEBCLNT_ERR( ERR_W_ID_INVALID );

    // parse district ID
    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
, iTTotal);
}

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 fromHTML string."
},
        { ERR_INVALID_SYNC_CONNECTION,
Terminal Sync ID."
},
        { ERR_INVALID_TERMID,
"Invalid Terminal ID."
},
        { ERR_LOADDLL_FAILED,
"Load of DLL failed. DLL="
},
        { ERR_MAX_CONNECTIONS_EXCEEDED,
connections available. Max Connections is probably too low."
},
        { ERR_MISSING_REGISTRY_ENTRIES,
"Required registry entries are missing. Rerun INSTALL to correct."
},
        { ERR_NEWORDER_CUSTOMER_INVALID,
Order customer id invalid data type, range = 1 to 3000."
},
        { ERR_NEWORDER_CUSTOMER_KEY,
"New Order missing Customer key\"CID*\"."
},
        { ERR_NEWORDER_DISTRICT_INVALID,
Order District ID Invalid range 1 - 10."
},
        { ERR_NEWORDER_FORM_MISSING_DID,
Order missing District key\"DID*\"."
},
        { ERR_NEWORDER_ITEMID_INVALID,
Order Item Id is wrong data type, must be numeric."
},
        { ERR_NEWORDER_ITEMID_RANGE,
"New Order Item Id is out of range. Range = 1 to 999999."
},
    }
}

```



```

        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
*                  char          *pKey             key value to look for
*                  char          *pValue          value to throw if key not found
*                  int            iMax             value to throw if value not numeric
*                  WEBERROR      err             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
*                  char          *pKey             key value to look for
*                  WEBERROR      NoKeyErr         value to throw if key not found
*                  WEBERROR      NotIntErr        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) then
*                      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 theTPCC.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 requester.
    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\">"

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```

        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<BOLD>An Error Occurred</BOLD><BR><BR>"
        "%s"
        "<BR><BR><HR>"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..NewOrder..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Payment..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Delivery..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Order-Status..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..Exit..\">"
        "</FORM></BODY></HTML>"
        , iType, iErrorNum, MAIN_MENU_FORM, iTermId, iSyncId, szErrorText );
}

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

/* FUNCTION: MakeStockLevelForm
 *
 * PURPOSE:          This function constructs the Stock 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 = wsprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C Stock Level</TITLE></HEAD><FORM
        ACTION=\"tpcc.dll\" METHOD=\"GET\">"

```

```
"<INPUT TYPE="hidden" NAME="STATUSID" VALUE="0">"
"<INPUT TYPE="hidden" NAME="ERROR" VALUE="0">"
"<INPUT TYPE="hidden" NAME="FORMID" VALUE="%d">"
"<INPUT TYPE="hidden" NAME="TERMD" VALUE="%d">"
"<INPUT TYPE="hidden" NAME="SYNCID" VALUE="%d">"
"<PRE><font face="Courier">
Warehouse: %5.5d District: %2.2d<BR> <BR>,
STOCK_LEVEL_FORM, iTermId, Term.pClientData[iTermId].iSynclnd,
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> <BR> <BR> <BR><PRE><HR>"
"<INPUT TYPE="submit" NAME="CMD" VALUE="Process..">"
"<INPUT TYPE="submit" NAME="CMD" VALUE="Menu..">"
"<FORM></HTML>");
}
else
{
wsprintf(szForm+c,
"Stock Level Threshold: %2.2d<BR> <BR>"
"low stock: %3.3d</font> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>"
<BR>"
" <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR><PRE><HR>"
"<INPUT TYPE="submit" NAME="CMD" VALUE="..NewOrder..">"
"<INPUT TYPE="submit" NAME="CMD" VALUE="..Payment..">"
"<INPUT TYPE="submit" NAME="CMD" VALUE="..Delivery..">"
"<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> <BR> <BR>";

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

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

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

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

strcpy( szForm+c,
"District: <INPUT NAME="DID*" SIZE=1> Date: <BR>"
"Customer: <INPUT NAME="CID*" SIZE=4> Name: Credit:
%Disc:<BR>"
"Order Number: Number of Lines: W_tax: D_tax:<BR> <BR>"
"Supp_W Item_Id Item Name Qty Stock B/G Price Amount<BR>"
"<INPUT NAME="SP00*" SIZE=4> <INPUT NAME="IID00*" SIZE=6>"
"<INPUT NAME="SP01*" SIZE=4> <INPUT NAME="IID01*" SIZE=6>"
"<INPUT NAME="Qty01*" SIZE=1><BR>"
"<INPUT NAME="SP02*" SIZE=4> <INPUT NAME="IID02*" SIZE=6>"
"<INPUT NAME="Qty02*" SIZE=1><BR>"
"<INPUT NAME="SP03*" SIZE=4> <INPUT NAME="IID03*" SIZE=6>"
"<INPUT NAME="Qty03*" SIZE=1><BR>"
"<INPUT NAME="SP04*" SIZE=4> <INPUT NAME="IID04*" SIZE=6>"
"<INPUT NAME="Qty04*" SIZE=1><BR>"
"<INPUT NAME="SP05*" SIZE=4> <INPUT NAME="IID05*" SIZE=6>"
"<INPUT NAME="Qty05*" SIZE=1><BR>"
"<INPUT NAME="SP06*" SIZE=4> <INPUT NAME="IID06*" SIZE=6>"
"<INPUT NAME="Qty06*" SIZE=1><BR>"
"<INPUT NAME="SP07*" SIZE=4> <INPUT NAME="IID07*" SIZE=6>"
"<INPUT NAME="Qty07*" SIZE=1><BR>"
"<INPUT NAME="SP08*" SIZE=4> <INPUT NAME="IID08*" SIZE=6>"
"<INPUT NAME="Qty08*" SIZE=1><BR>"
"<INPUT NAME="SP09*" SIZE=4> <INPUT NAME="IID09*" SIZE=6>"
"<INPUT NAME="Qty09*" SIZE=1><BR>"
"<INPUT NAME="SP10*" SIZE=4> <INPUT NAME="IID10*" SIZE=6>"
"<INPUT NAME="Qty10*" SIZE=1><BR>"
"<INPUT NAME="SP11*" SIZE=4> <INPUT NAME="IID11*" SIZE=6>"
"<INPUT NAME="Qty11*" SIZE=1><BR>"
"<INPUT NAME="SP12*" SIZE=4> <INPUT NAME="IID12*" SIZE=6>"
"<INPUT NAME="Qty12*" SIZE=1><BR>"
"<INPUT NAME="SP13*" SIZE=4> <INPUT NAME="IID13*" SIZE=6>"
"<INPUT NAME="Qty13*" SIZE=1><BR>"
"<INPUT NAME="SP14*" SIZE=4> <INPUT NAME="IID14*" SIZE=6>"
"<INPUT NAME="Qty14*" SIZE=1><BR>"
"Execution Status: Total:<BR>"
"</font></PRE><HR>"
```

```

        "<INPUT TYPE='submit' NAME='CMD' VALUE='Process!'"
        "<INPUT TYPE='submit' NAME='CMD' VALUE='Menu!'"
        "</FORM></HTML>"
    );
}
else
{
    c += sprintf(szForm+c, "Warehouse: %5.5d District: %2.2d Date: ",
        pNewOrderData->w_id,
        pNewOrderData->d_id);

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

    c += sprintf(szForm+c, "<BR>Customer: %4.4d Name: %-16s Credit: %-2s ",
        pNewOrderData->c_id, pNewOrderData->c_last, pNewOrderData->c_credit);

    if ( bValid )
    {
        c += sprintf(szForm+c,
            "%2.2d W_tax: %5.2f D_tax: %5.2f <BR> <BR>"
            "%1.1s $%6.2f $%7.2f <BR>",
            "%%Disc: %5.2f <BR>"
            "Order Number: %8.8d Number of Lines: "
            " Supp_W Item_Id Item Name Qty
            Stock B/G Price Amount<BR>",
            100.0*pNewOrderData->c_discount,
            pNewOrderData->o_id,
            pNewOrderData->o_ol_cnt,
            100.0 * pNewOrderData->w_tax,
            100.0 * pNewOrderData->d_tax);

        for(i=0; i<pNewOrderData->o_ol_cnt; i++)
        {
            c += sprintf(szForm+c, " %5.5d %6.6d %-24s %2.2d %3.3d
                %1.1s $%6.2f $%7.2f <BR>",
                pNewOrderData->OL_IN[i].ol_supply_w_id,
                pNewOrderData->OL_IN[i].ol_i_id,
                pNewOrderData->OL_OUT[i].ol_i_name,
                pNewOrderData->OL_IN[i].ol_quantity,
                pNewOrderData->OL_OUT[i].ol_stock,
                pNewOrderData->OL_OUT[i].ol_brand_generic,
                pNewOrderData->OL_OUT[i].ol_i_price,
                pNewOrderData->OL_OUT[i].ol_amount);
        }
    }
}
else
{
    c += sprintf(szForm+c,

```

```

        "%Disc:<BR>"
        "Order Number: %8.8d Number of Lines: W_tax:
D_tax:<BR> <BR>"
        " Supp_W Item_Id Item Name Qty Stock B/G Price
Amount<BR>"
        , pNewOrderData->o_id);
        i = 0;
    }
    strcpy( szForm+c, szBR, (15-i)*5 );
    c += (15-i)*5;

    if ( bValid )
        c += sprintf(szForm+c, "Execution Status: Transaction committed. Total:
        %8.2f ",
        pNewOrderData->total_amount);
    else
        c += sprintf(szForm+c, "Execution Status: Item number is not valid.
Total:");

    strcpy(szForm+c,
        "<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..!'"
        "</FORM></HTML>"
    );
}

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

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

    c = sprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C Payment</TITLE></HEAD><BODY>"
        "<FORM ACTION='tpcc.dll' METHOD='GET'"
        "<INPUT TYPE='hidden' NAME='STATUSID' VALUE='0'"
        "<INPUT TYPE='hidden' NAME='ERROR' VALUE='0'"
        "<INPUT TYPE='hidden' NAME='FORMID' VALUE='%d'"
        "<INPUT TYPE='hidden' NAME='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=\"CW1*\" SIZE=5> "
        "Cust-District: <INPUT NAME=\"CD1*\" 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=\"Process\"><INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">"
        "</BODY></FORM></HTML>"
        , Term.pClientData[iTermId].w_id);
}
else
{
    c += sprintf(szForm+c,
        "<BR> <BR>Warehouse: %5.5d District: %2.2d<BR>"
        "%-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: %2.2d-%2.2d-%4.4d<BR>"
        " %-20s Credit: %-2s<BR>"
        , Term.pClientData[iTermId].w_id, pPaymentData->d_id
        , pPaymentData->w_street_1, pPaymentData->d_street_1
        , pPaymentData->w_street_2, pPaymentData->d_street_2
        , pPaymentData->w_city, pPaymentData->w_state, pPaymentData->w_zip,
pPaymentData->w_zip+5
        , pPaymentData->d_city, pPaymentData->d_state, pPaymentData->d_zip,
pPaymentData->d_zip+5
        , pPaymentData->c_id, pPaymentData->c_w_id, pPaymentData->c_d_id
        , pPaymentData->c_first, pPaymentData->c_middle, pPaymentData->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>");
    }
}
/* FUNCTION: MakeOrderStatusForm
*
* COMMENTS: The internal client buffer is created when the terminal id is assigned and should not
* be freed except when the client terminal id is no longer needed.
*/
void MakeOrderStatusForm(int iTermId, ORDER_STATUS_DATA *pOrderStatusData, BOOL bInput, char *szForm)

```

```

{
    int          i, c;
    static char szBR[] = "<BR><BR><BR><BR><BR><BR><BR><BR><BR><BR><BR><BR><BR><BR><BR>";

    c = vsprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C Order-Status</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=\\\"TERMIN\\\" VALUE=\\\"%d\\\">"
        "<INPUT TYPE=\\\"hidden\\\" NAME=\\\"SYNCID\\\" VALUE=\\\"%d\\\">"
        "<PRE><font face=\\\"Courier\\\">                    Order-Status<BR>"
        "Warehouse: %5.5d  ",
        Term.pClientData[iTermId], iTermId, Term.pClientData[iTermId].iSyncId,
        ORDER_STATUS_FORM, iTermId, Term.pClientData[iTermId].w_id);

    if ( bInput )
    {
        strcpy(szForm+c,
            "District: <INPUT NAME=\\\"DID\\\" SIZE=1<<BR>"
            "Customer: <INPUT NAME=\\\"CID\\\" SIZE=4> Name:           <INPUT
NAME=\\\"CLT\\\" SIZE=23><BR>"
            "Cust-Balance:<BR><BR>"
            "Order-Number:      Entry-Date:          Carrier-Number:<BR>"
            "Supply-W Item-Id Qty  Amount  Delivery-Date<BR><BR><BR><BR>"
            "<BR><BR><BR><BR><BR><BR><BR><BR><BR><BR><BR><BR>"
            "<BR></font></PRE>"
            "<HR><INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\" VALUE=\\\"Process\\\"><INPUT
TYPE=\\\"submit\\\" NAME=\\\"CMD\\\" VALUE=\\\"Menu\\\">"
            "</BODY></FORM></HTML>");
    }
    else
    {
        c += vsprintf(szForm+c,
            "District: %2.2d<BR>"
            "Customer: %4.4d Name: %-16s %-2s %-16s<BR>",
            pOrderStatusData->d_id, pOrderStatusData->c_id,
            pOrderStatusData->c_first, pOrderStatusData->c_middle, pOrderStatusData->c_last);

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

        c += vsprintf(szForm+c,
            "Order-Number: %8.8d Entry-Date: %2.2d-%2.2d-%4.4d %2.2d:%2.2d:%2.2d
Carrier-Number: %2.2d<BR>"
            "Supply-W Item-Id Qty  Amount  Delivery-Date<BR>",
            pOrderStatusData->o_id,
            pOrderStatusData->o_entry_d.day,
            pOrderStatusData->o_entry_d.month,
            pOrderStatusData->o_entry_d.year,
            pOrderStatusData->o_entry_d.hour,
            pOrderStatusData->o_entry_d.minute,
            pOrderStatusData->o_entry_d.second,

```

```

        pOrderStatusData->o_carrier_id);
        for(i=0; i< pOrderStatusData->o_ol_cnt; i++)
        {
            c += sprintf(szForm+c, " %5.5d  %6.6d  %2.2d  %8.2f
%2.2d-%2.2d-%4.4d<BR>",
                pOrderStatusData->OL[i].ol_supply_w_id,
                pOrderStatusData->OL[i].ol_i_id,
                pOrderStatusData->OL[i].ol_quantity,
                pOrderStatusData->OL[i].ol_amount,
                pOrderStatusData->ol_delivery_d[i].day,
                pOrderStatusData->ol_delivery_d[i].month,
                pOrderStatusData->ol_delivery_d[i].year);
        }

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

        strcpy(szForm+c,
            "</font></PRE><HR><INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\"
VALUE=\\\"..NewOrder..\\\">"
            "<INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\" VALUE=\\\"..Payment..\\\">"
            "<INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\" VALUE=\\\"..Delivery..\\\">"
            "<INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\" VALUE=\\\"..Order-Status..\\\">"
            "<INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\" VALUE=\\\"..Stock-Level..\\\">"
            "<INPUT TYPE=\\\"submit\\\" NAME=\\\"CMD\\\" VALUE=\\\"..Exit..\\\">"
            "</BODY></FORM></HTML>");
    }
}

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

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

    c = vsprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C Delivery</TITLE></HEAD><BODY>"
        "<FORM ACTION=\\\"tpcc.dll\\\" METHOD=\\\"GET\\\">"
        "<INPUT TYPE=\\\"hidden\\\" NAME=\\\"STATUSID\\\" VALUE=\\\"%d\\\">"
        "<INPUT TYPE=\\\"hidden\\\" NAME=\\\"ERROR\\\" VALUE=\\\"0\\\">"
        "<INPUT TYPE=\\\"hidden\\\" NAME=\\\"FORMID\\\" VALUE=\\\"%d\\\">"
        "<INPUT TYPE=\\\"hidden\\\" NAME=\\\"TERMIN\\\" VALUE=\\\"%d\\\">"
        "<INPUT TYPE=\\\"hidden\\\" NAME=\\\"SYNCID\\\" VALUE=\\\"%d\\\">"
        "<PRE><font face=\\\"Courier\\\">                    Delivery<BR>"
        "Warehouse: %5.5d<BR><BR>",
        (!bInput && (pDeliveryData->exec_status_code != eOK)) ? ERR_TYPE_DELIVERY_POST : 0,
        DELIVERY_FORM, iTermId, Term.pClientData[iTermId].iSyncId,
        Term.pClientData[iTermId].w_id);

    if ( bInput )
    {

```

```

strcpy( szForm+c,
    "Carrier Number: <INPUT NAME=\"OCD*\" SIZE=1><BR> <BR>"
    "Execution Status: <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>"
    " <BR> <BR> <BR> <BR> <BR> <BR> <BR> </font></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<BR> <BR>"
        "Execution Status: %s <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>"
        " <BR> <BR> <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>"

        , 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 theSQLNewOrder
*                   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
*                   filling in the required input variables. It then calls theSQLPayment
*                   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 thePostDeliveryInfo
*               Api, The client is then informed that the transaction has been posted.
*
* ARGUMENTS:    EXTENSION_CONTROL_BLOCK *pECB    passed in structure pointer from inetsrv.
*               int
iTermId    client browser terminal id
*
*/

void ProcessDeliveryForm(EXTENSION_CONTROL_BLOCK *pECB, int iTermId, char *szBuffer)
{
    char *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 anhttp 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 anhttp 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 anhttp 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          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          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 theisapi 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 6 //order status id
#define STOCK_LEVEL_FORM 7 //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;
structure type
```

```
//pointer to terminal
```

```
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 engstat.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(LPCTSTR 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"

```

```

//
// 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:                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 CointializeEx
#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 definations 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->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_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 NewOrder;
            PAYMENT_DATA Payment;
            DELIVERY_DATA Delivery;
            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 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("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_all.dll"));

    _sprintf(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
        },
        { ERR_UNKNOWN_DB_PROTOCOL, "Unknown database protocol
        },
        { 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)
        sprintf( 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("Unhandled exception.));
        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("PaymentClass")
]
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)
#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_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
FILESOS 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
////////////////////////////////////
```

```

#ifndef 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 <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
TPCCR_REGISTRYDATA 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 ( ReadTPCCRRegistrySettings(&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
        },
        { ERR_UNKNOWN_DB_PROTOCOL, "Unknown database protocol
        },
        { 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;
    // IObjectContextString* pString = NULL;
    // HRESULT hr = pUnk->QueryInterface(IID_IObjectContextString, (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();

        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();

        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_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
//
#ifdef APSTUDIO_INVOKED
#ifdef 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
#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} = s 'NewOrder Class'
        {
            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} = s 'Payment Class'
        {
            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
```

```
);
(
    [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: TPC_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 each txn

        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.
#ifndef 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;

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

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_REM : 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          NewOrder;

```

```

        PAYMENT_DATA          Payment;
        DELIVERY_DATA         Delivery;
        STOCK_LEVEL_DATA      StockLevel;
        ORDER_STATUS_DATA     OrderStatus;
    } u;
} *m_pTxn;

    VARIANT m_vTxn;
public:
    CTPCC_COM_REM(BOOL bSinglePool);
    ~CTPCC_COM_REM(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_REM* CTPCC_COM_REM_REMOTE_new(BOOL);

typedef CTPCC_COM_REM* (TYPE_CTPCC_COM_REM)(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 <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 <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_TPCCrem, 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_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 );
    }
    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_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(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;
    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(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("Unhandled exception."));
        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_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("Unhandled exception."));
        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)
{
    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("Unhandled exception.));
    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 "oaidl.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)
#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_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

#endif // !_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.l = 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
STDMETHODIMP_(BOOL) CanBePooled() { return m_bCanBePooled; }
STDMETHODIMP Activate() { return S_OK; } // we don't support COM Services transactions (no
enlistment)
STDMETHODIMP_(void) Deactivate() { /* nothing to do */ }

// IObjectConstruct
STDMETHODIMP 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 STDMETHODCALLTYPE NewOrder(
        [in] VARIANT txn_in,
        [out] VARIANT *txn_out
    );

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

    HRESULT STDMETHODCALLTYPE Delivery(
        [in] VARIANT txn_in
    );

    HRESULT STDMETHODCALLTYPE 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_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
//
#ifdef 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;
 * not a functional bug, but a memory 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

#ifdef 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 fromtpcc_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 StockLevelSPProcName[] = "RPCTPCC.DLL\stks";
static char OrderStatusSPProcName[] = "RPCTPCC.DLL\ords";
static char DeliverySPProcName[] = "RPCTPCC.DLL\dels";
static char PaymentSPProcName[] = "RPCTPCC.DLL\pays";
static char NewOrderSPProcName[] = "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             iNativeError;
    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, &iNativeError,
            (BYTE *)&szMsg, sizeof(szMsg), NULL);

        if (rc == SQL_NO_DATA)
            break;

        // check for deadlock
        if (iNativeError == 1205 || (iNativeError == iErrOleDbProvider &&
            strstr(szMsg, sErrTimeoutExpired) != NULL))
            pODBCErr->m_bDeadLock = TRUE;

        // capture the (first) database error
        if (pODBCErr->m_NativeError == 0 && iNativeError != 0)
            pODBCErr->m_NativeError = iNativeError;

        // 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 errmsg
        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 sqlda in_sqlda;
    struct sqlda out_sqlda;
    struct sqlca sqlca;

    in_sqlda.sqln = 1;
    in_sqlda.sqld = 1;
    in_sqlda.sqlvar[0].sqltype = SQL_TYP_CHAR;
    in_sqlda.sqlvar[0].sqldata = (char *)&m_db2_dataIN.db2StockLevel;
    in_sqlda.sqlvar[0].sqllen = sizeof(m_db2_dataIN.db2StockLevel);
    in_sqlda.sqlvar[0].sqlind = NULL;

    out_sqlda.sqln = 1;
    out_sqlda.sqld = 1;
    out_sqlda.sqlvar[0].sqltype = SQL_TYP_CHAR;
    out_sqlda.sqlvar[0].sqldata = (char *)&m_db2_dataOUT.db2StockLevel;
    out_sqlda.sqlvar[0].sqllen = sizeof(m_db2_dataOUT.db2StockLevel);
    out_sqlda.sqlvar[0].sqlind = NULL;

    rc = sqlproc(StockLevelSPProcName, NULL, &in_sqlda, &out_sqlda, &sqlca);

    if (sqlca.sqlcode)
    {
        char buf[512] = "";

        rc = sqlainp(buf, 512, 78, &sqlca);
        sprintf(m_retMsg, "STOCKLEV dari failed with sqlcode = %ld
%s", sqlca.sqlcode, buf);

        ThrowError(CDB2ERR::eSQLEproc);
    }

    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 i;
    RETCODE rc;
    int iTryCount = 0;

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

    m_hstmt = m_hstmtNewOrder;

    // not sure this part is necessary 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;

```

```

wscopy( &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 sqlca in_sqlca;
            struct sqlca out_sqlca;
            struct sqlca sqlca;

            in_sqlca.sqln = 1;
            in_sqlca.sqld = 1;
            in_sqlca.sqlvar[0].sqltype = SQL_TYP_CHAR;
            in_sqlca.sqlvar[0].sqldata = (char *)&m_txn.NewOrder;
            in_sqlca.sqlvar[0].sqllen = sizeof(m_db2_dataIN.db2NewOrder);
            in_sqlca.sqlvar[0].sqlind = NULL;

            out_sqlca.sqln = 1;
            out_sqlca.sqld = 1;
            out_sqlca.sqlvar[0].sqltype = SQL_TYP_CHAR;
            out_sqlca.sqlvar[0].sqldata = (char *)&m_txn.NewOrder.OL_OUT;
            out_sqlca.sqlvar[0].sqllen = sizeof(m_db2_dataOUT.db2NewOrder);
            out_sqlca.sqlvar[0].sqlind = NULL;

            rc = sqleproc(NewOrderSProcName, NULL, &in_sqlca, &out_sqlca,
&sqlca);

            if (sqlca.sqlcode)
            {
                char buf[512] = "";

                rc = sqlaintp(buf, 512, 78, &sqlca);
                sprintf(m_retMsg, "STOCKLEV dari failed with sqlcode =
%d %s", sqlca.sqlcode, buf);

                ThrowError(CDB2ERR::eSQLEproc);
            }
        }
    }
}

```

```

    }
}

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_sqlda;
                struct sqllda out_sqlda;
                struct sqlca sqlca;

                in_sqlda.sqln = 1;
                in_sqlda.sqld = 1;
                in_sqlda.sqlvar[0].sqltype = SQL_TYP_CHAR;
                in_sqlda.sqlvar[0].sqldata = (char *)&m_txn.Payment;
                in_sqlda.sqlvar[0].sqllen = sizeof(m_db2_dataIN.db2Payment);
                in_sqlda.sqlvar[0].sqlind = NULL;

                out_sqlda.sqln = 1;
                out_sqlda.sqld = 1;
                out_sqlda.sqlvar[0].sqltype = SQL_TYP_CHAR;
                out_sqlda.sqlvar[0].sqldata = (char *)&m_txn.Payment.c_credit_lim;
                out_sqlda.sqlvar[0].sqllen = sizeof(m_db2_dataOUT.db2Payment);
                out_sqlda.sqlvar[0].sqlind = NULL;

                rc = sqlproc(PaymentSPProcName, NULL, &in_sqlda, &out_sqlda,
                    &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.StockLevel.exec_status_code = eDeliveryFailed;
        break;

    default:
        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(
/*
        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
        RETCODE
        int
        rc;
        i;
        iTryCount = 0;

        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_sqlda;
                struct sqllda out_sqlda;
                struct sqlca sqlca;

                in_sqlda.sqln = 1;
                in_sqlda.sqld = 1;
                in_sqlda.sqlvar[0].sqltype = SQL_TYP_CHAR;
                in_sqlda.sqlvar[0].sqldata = (char *)&m_txn.OrderStatus;
                in_sqlda.sqlvar[0].sqlllen = sizeof(m_db2_dataIN.db2OrderStatus);
                in_sqlda.sqlvar[0].sqlind = NULL;

                out_sqlda.sqln = 1;
                out_sqlda.sqld = 1;
                out_sqlda.sqlvar[0].sqltype = SQL_TYP_CHAR;
                out_sqlda.sqlvar[0].sqldata = (char *)&m_txn.OrderStatus.c_balance;
                out_sqlda.sqlvar[0].sqlllen = sizeof(m_db2_dataOUT.db2OrderStatus);
                out_sqlda.sqlvar[0].sqlind = NULL;

                rc = sqlcproc(OrderStatusSPProcName, NULL, &in_sqlda, &out_sqlda,
                    &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);
                }
            }
            catch (CDB2ERR *e)
            {
                if (!e->m_bDeadLock || (++iTryCount > iMaxRetries))
                    throw;

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

```

```

        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.?
    #endif
    */

    while (TRUE)
    {
        try
        {
            if ( SQLSetConnection(m_hdbc)!= SQL_SUCCESS)
                ThrowError(CDB2ERR::eSetConn);

            {
                struct sqlda in_sqlda;
                struct sqlda out_sqlda;
                struct sqlca sqlca;

                in_sqlda.sqln = 1;
                in_sqlda.sqld = 1;
                in_sqlda.sqlvar[0].sqltype = SQL_TYP_CHAR;
                in_sqlda.sqlvar[0].sqldata = (char *)&m_db2_dataIN.db2Delivery;
                in_sqlda.sqlvar[0].sqlllen = sizeof(m_db2_dataIN.db2Delivery);
                in_sqlda.sqlvar[0].sqlind = NULL;

                out_sqlda.sqln = 1;
                out_sqlda.sqld = 1;
            }
        }
    }
}

```

```

        out_sqllda.sqlvar[0].sqltype = SQL_TYP_CHAR;
        out_sqllda.sqlvar[0].sqldata = (char *)&m_db2_dataOUT.db2Delivery;
        out_sqllda.sqlvar[0].sqlllen = sizeof(m_db2_dataOUT.db2Delivery);
        out_sqllda.sqlvar[0].sqlind = NULL;

        rc = sqleproc(DeliverySProcName, 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 =
%d %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
#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+20
1+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;
} oitem[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
    SQLINTEGER m_BindOffset;
    SQLINTEGER m_RowsFetched;
    int        m_no_commit_flag;

    void ThrowError( CDB2ERR::ACTION eAction );

    void CTPCC_ODBC_DB2::ConvertTime(TIMESTAMP_STRUCT*tsTime, __int64 iTTime);
    __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 dllib, 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        /* SQLINTEGER */ fraction;
} TIMESTAMP_STRUCT;

```

```

#endif

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

// 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.
#ifndef DllDecl
#define DllDecl __declspec( dllimport )
#endif

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

    virtual PNEW_ORDER_DATA      BuffAddr_NewOrder()           = 0;
    virtual PPAYMENT_DATA        BuffAddr_Payment()           = 0;
    virtual PDELIVERY_DATA       BuffAddr_Delivery()          = 0;
    virtual PSTOCK_LEVEL_DATA     BuffAddr_StockLevel()        = 0;
    virtual PORDER_STATUS_DATA    BuffAddr_OrderStatus()       = 0;
    virtual void NewOrder()       () = 0;
    virtual void NewOrder        (BOOL fLocal) = 0;
    virtual void Payment          () = 0;
    virtual void Payment         (BOOL fLocal) = 0;
    virtual void Delivery         () = 0;
    virtual void StockLevel       () = 0;
    virtual void OrderStatus      () = 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 TXN_REC_TYPE_*
    BYTE TxnSubType; // depends on TxnType
} TXN_RECORD_HEADER, *PTXN_RECORD_HEADER;

typedef struct _TXN_RECORD_CONTROL
{
    // common header; must exactly match TXN_RECORD_HEADER

```

```

    JULIAN_TIME TxnStartT0; // start of txn
    BYTE TxnType; // = 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 district ID for this thread
    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
    }

```

```

//
// position in file
//
// #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_ERROR 1
#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(LPCTSTRszFileName, DWORD dwOpts);
        ~CTxnLog(void);

        int WriteToLog(PTXN_RECORD_TPCC pTxnRcrd);
        int WriteToLog(PTXN_RECORD_TPCC_DELIV_DEF pTxnRcrd);
        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_erno = iErr; };

    int                m_erno;

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

    // 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 = TPC

!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_loadds= -Dpascal -D_X86_=1 -D_MT -D_DLL
CFLAGS_NT = -DNT -DWIN32

```

```

CFLAGS_DARI = -DDARIVERSION
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) $(CFLAGS_DB2)
-$(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

```
/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 del.sqc - Implement the delivery transaction.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/01 12:11:15
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#include "db2tpcc.h"

#ifndef DARIVERSION
EXEC SQL INCLUDE SQLCA;
#else
typedef struct sqlca Sqlca;
#define sqlca (*pca)
#endif

/*-----*/
/* DELIVERY Service */
/*-----*/

#ifndef 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
{
#ifndef DARIVERSION
struct out_delivery_struct *delivery;
struct in_delivery_struct *in_delivery; /* sas05 */
#endif
#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",
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",
new_balance);
}
#endif /* ACID_TEST */

```

```

total_amount = (double)ototal_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%f\n\n",
        new_balance);
else {
  printf("\nValue of c_balance for customer in district 10 before rollback:\n%f\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%f\n\n",
        new_balance);
}
#endif /* ACID_TEST */

delivery->s_transtatus = TRAN_OK;
rc = 0;
goto mexit;

```

```

error:
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 error;
}

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 @d000515djc
*/

#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 nsqlerror(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_ln;

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 neword->s_C_LAST
#define c_credit neword->s_C_CREDIT
#define c_discount neword->s_C_DISCOUNT
#define ware_tax neword->s_W_TAX
#define dist_tax neword->s_D_TAX

// GSM2, changed from item_idx to item_cnt:
#define item_name neword->item[item_cnt].s_I_NAME

// GSM4?
#define dist distA[item_cnt]
#define dist_idx distA[item_idx]

#define id0 in_neword->in_item[0].s_OL_I_ID
#define id1 in_neword->in_item[1].s_OL_I_ID
#define id2 in_neword->in_item[2].s_OL_I_ID
#define id3 in_neword->in_item[3].s_OL_I_ID
#define id4 in_neword->in_item[4].s_OL_I_ID
#define id5 in_neword->in_item[5].s_OL_I_ID
#define id6 in_neword->in_item[6].s_OL_I_ID
#define id7 in_neword->in_item[7].s_OL_I_ID
#define id8 in_neword->in_item[8].s_OL_I_ID
#define id9 in_neword->in_item[9].s_OL_I_ID
#define id10 in_neword->in_item[10].s_OL_I_ID
#define id11 in_neword->in_item[11].s_OL_I_ID
#define id12 in_neword->in_item[12].s_OL_I_ID
#define id13 in_neword->in_item[13].s_OL_I_ID
#define id14 in_neword->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 'neword' structure from the SQLDA */
in_neword = (struct in_neword_struct *)pin_sqlda->sqlvar[0].sqldata;
neword = (struct out_neword_struct *)pout_sqlda->sqlvar[0].sqldata;
#endif

/* copy the input to output */
// duplicate_items = neword->duplicate_items;

// GSM2, initialize item_cnt so that our sizeof for the da will work
item_cnt = 0;

#ifdef DEBBUGIT
neword->s_O_OL_CNT = 0; //GSM
new_debug(neword, in_neword, "Server upon entry");
#endif

/* current_tmstamp(&curr_tmstamp[0]);          sas02 */
/* curr_tmstamp[19] = (char)NULL;              sas02 */
// time((time_t *)&curr_tmstamp);             /* sas02 */

allLocal = in_neword->s_all_local;
OLITEMS = neword->s_O_OL_CNT = in_neword->s_O_OL_CNT; // GSM

d_id = in_neword->s_D_ID;
w_id = in_neword->s_W_ID;
c_id = in_neword->s_C_ID;
o_c_id = c_id;

```

```

#ifdef ACID_TEST
mypid = getpid();
sprintf(out_fn, DB2OUT "tpcc.neword.out.%d", mypid);
out = fopen(out_fn, "a");
allLocal = 0;
gettimeofday(&tv, &tz);
audittime = 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_neword->s_W_ID, in_neword->s_D_ID, in_neword->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(NEWORD_SQL, "FETCH dist_cur",206, &sqlca);//@d000515dje
sqlerror(NEWORD_SQL, "FETCH district",206, &sqlca); //@d000515dje
goto ferror;
}

/* ACID TEST REMOVED */

o_id = next_o_id;
neword->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(NEWORD_SQL, "UPDATE dist_cur",234, &sqlca); //@d000515dje
sqlerror(NEWORD_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].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(item_price);
da->sqlvar[1].sqldata = (void*)&item_price;

da->sqlvar[2].sqltype = SQL_TYP_CSTR;
da->sqlvar[2].sqlllen = 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].sqlllen = sizeof(i_data.data);
da->sqlvar[3].sqldata = (void*)&i_data;

da->sqlvar[4].sqltype = SQL_TYP_SMALL;
da->sqlvar[4].sqlllen = sizeof(s_quantity);
da->sqlvar[4].sqldata = (void*)&s_quantity;

da->sqlvar[5].sqltype = SQL_TYP_VARCHAR;
da->sqlvar[5].sqlllen = sizeof(s_data.data);
da->sqlvar[5].sqldata = (void*)&s_data;

da->sqlvar[6].sqltype = SQL_TYP_SMALL;
da->sqlvar[6].sqlllen = sizeof(s_order_cnt);
da->sqlvar[6].sqldata = (void*)&s_order_cnt;

da->sqlvar[7].sqltype = SQL_TYP_INTEGER;
da->sqlvar[7].sqlllen = sizeof(s_ytd);
da->sqlvar[7].sqldata = (void*)&s_ytd;

da->sqlvar[8].sqltype = SQL_TYP_CSTR;
da->sqlvar[8].sqlllen = 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(NEWORD_SQL, "open Item_Stock_cursor",305, &sqlca);
goto ferror;
}

// GSM3, one of Steve's fixes, also from TPM100K
neword->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-lineinsert 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 sqlerror("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 &&

```

```

        litem_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 {
#ifdef
        char srs[90];
        sprintf( srs, "huh? item_cnt=%d, ol_i_id=%d", item_cnt, ol_i_id );
        /* this should NEVER happen */
        new_debug(newword,in_newword,srs);
#endif
        for (i = OLITEMS - 1; i >= 0 ; i--) { /* nb: colwell's fix for os2 */
            if (in_newword->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_newword->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(NEWWORD_SQL, "OPEN Stock_cursor",409, &sqlca);
            goto ferror;
        }

        // GSM4, put district info in multi-lineinsert 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 ;
#ifdef
        //>@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(NEWWORD_SQL, "FETCH Stock_cursor",422, &sqlca);
#else
            sqlerror(NEWWORD_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_newword->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(neword->item[item_idx].s_I_NAME,item_name);

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;

// 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_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);
    break;
case 6:
    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);
    break;
case 7:
    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,

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:supply_w_id6, 0,
:ol_quantity6,:iol_amount6,:dist6);
break;
case 8:
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);
break;
case 9:
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),

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```

(:o_id,:d_id,:w_id,:ol_ln8,:ol_i_id8,
:supply_w_id8, 0,
:ol_quantity8,:iol_amount8,:dist8);
break;
case 10:
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);
break;
case 11:
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);

```

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_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),
(:o_id,:d_id,:w_id,:ol_ln14,:ol_i_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(NEWWORD_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_newword->duplicate_items);
  for (Y=0; Y<order_line_rows; ++Y)
  sprintf(tempstr+strlen(tempstr), "w_id=%dd_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') {
  newword->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(newword->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
// newword->s_O_ENTRY_D_time = curr_tmstamp;
#endif
newword->s_total_amount = newword->s_total_amount *
(1 - newword->s_C_DISCOUNT) * (1 + ware_tax + dist_tax);
}

```

```

/*-----*/
/* Return to client */
/*-----*/
newword->s_transtatus = TRAN_OK;
rc = 0;
goto mexit;

ferror:
newword->s_transtatus = FATAL_SQLERROR;
rc = -1;
EXEC SQL rollback work;
if (sqlca.sqlcode != 0)
sqlerror(NEWORD_SQL, "ROLLBACK FAILED", 666, &sqlca);
new_debug(newword, in_newword, "ferror code");

mexit:
newword->deadlocks = retry_count;

if ( sqlca.sqlcode < 0 )
rc = SQLZ_DISCONNECT_PROC;
else
rc = SQLZ_HOLD_PROC;

#ifdef DEBUGIT
new_debug(newword, in_newword, "Server prior to return");
#endif
return(rc);
}

/*-----*/
/* non-sql error */
/*-----*/
void static nsqlerror(char *msg, int ptat)
{
FILE *err_fp;
char err_fn[25] = DB2OUT "newword.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] = {8,8,8,8,8,8,8,8,8,8, /*0-9*/
8,8,8,8,8,8,8,8,8,8, /*10-19*/
8,8,8,8,8,8,8,8,8,8, /*20-29*/
8,8,8,8,8,8,8,8,8,8, /*30-39*/
8,8,8,8,8,8,8,8,8,8, /*40-49*/
8,8,8,8,8,8,8,8,8,8, /*50-59*/
8,8,8,8,8,1,8,8,8,8, /*60-69*/
8,4,8,3,8,8,0,8,2,7, /*70-79*/

```

```

8,8,6,8,8,8,8,8,8,8,8,8, /*80-89*/
8,8,8,8,8,8,8,8,8,8,8,8, /*90-99*/
8,8,8,8,8,8,8,8,8,8,8,8, /*100-109*/
8,8,8,8,8,8,8,8,8,8,8,8, /*110-119*/
8,8,8,8,8,8,8,8,8,8,8,8, /*120-129*/
8,8,8,8,8,8,8,8,8,8,8,8, /*130-139*/
8,8,8,8,8,8,8,8,8,8,8,8, /*140-149*/
8,8,8,8,8,8,8,8,8,8,8,8, /*150-159*/
8,8,8,8,8,8,8,8,8,8,8,8, /*160-169*/
8,8,8,8,8,8,8,8,8,8,8,8, /*170-179*/
8,8,8,8,8,8,8,8,8,8,8,8, /*180-189*/
8,8,8,8,8,8,8,8,8,8,8,8, /*190-199*/
8,8,8,8,8,8,8,8,8,8,8,8, /*200-209*/
8,8,8,8,8,8,8,8,8,8,8,8, /*210-219*/
8,8,8,8,8,8,8,8,8,8,8,8, /*220-229*/
8,8,8,8,8,8,8,8,8,8,8,8, /*230-239*/
8,8,8,8,8,8,8,8,8,8,8,8, /*240-249*/
8,8,8,8,8,8,8,8,8,8,8,8, /*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

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
^ ord.sqc - Implement the order status transaction.
^
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
^
^ Source File Name: engn/perf/tpcekit/Src.Srv/ord.sqc, perf, db2nt_v3,
c980410
^ SCCS Id. Number : 4/10/98 1.5
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
^ Last Changed   : 98/04/01 12:07:53
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#include "db2tpcc.h"

#ifndef DARIVERSION
EXEC SQL INCLUDE SQLCA;
#else
typedef struct sqlca Sqlca;
#define sqlca (*pca)
#endif

#define MAXCLAST 1000

/*-----*/
/*      ORDSTAT 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, re;
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].sqlllen = 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 sqlda *da = (struct sqlda *)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(iol_amount);
da->sqlvar[3].sqldata = (void*)&iol_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;
#ifdef 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-%02d",
lt->tm_year+1900, lt->tm_mon+1, lt->tm_mday,
lt->tm_hour, lt->tm_min, lt->tm_sec);
#endif
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

```
/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
^ Source File Name: engn/perf/tpcckit/Src.Srv/pay.sqc, perf, db2nt_v3, c980410
^ SCCS Id. Number : 4/10/98 1.5
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
^ Last Changed : 98/04/06 11:04:56
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#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 */
sqlint64 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_sqlda->sqlvar[0].sqldata;
  payment = (struct out_payment_struct *)pout_sqlda->sqlvar[0].sqldata;
#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.sql = da.sqln = 1;
  da.sqlvar[0].sqltype = SQL_TYP_INTEGER;
  da.sqlvar[0].sqlllen = 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_last_cus", 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", 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%fn\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;
    }
}

streat(h_data, " ");
streat(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,
            :h_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\n",new_balance);
}
#else
    pay_debug(payment, in_payment, "ferror 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
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
^ stk.sqc - Implement the stock level transaction.
^
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
^
^ Source File Name: engn/perf/tpcckit/Src.Srv/stk.sqc, perf, db2nt_v3,
c980410
^ SCCS Id. Number : 4/10/98 1.5
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
^ Last Changed : 98/04/01 12:09:57
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/
#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, "ferror 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

```

/*
 * db2tpcc.h - This file contains global variables and data definitions for
 * the TPCC application.
 *
 * Source File Name: engn/perf/tpcekit/include/db2tpcc.h, perf, db2nt_v3,
 * nightly
 * SCCS Id. Number : 4/15/98 1.6
 *
 * Date SIG Defect Remarks
 *
 * 04/15/1998 gal 084852 Minor changes for nightly build.
 *
 * Last Changed : 98/04/15 20:13:59
 */

/* #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 tpcutil.h:
*/
/*****
*/
#define NEWORD_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_neword_struct *neword_ptr,
struct in_neword_struct *in_neword_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_neword_struct *neword_ptr,
struct in_neword_struct *in_neword_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_neword_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
#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 s_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 s_deadlocks;
};

#define PAYMENT_COPY_SZ (21+21+21+3+10+21+21+21+3+10+17+3+17+21+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;
#ifdef DB2_TIME_STRING
char s_OL_DELIVERY_D[20];
#else
sqlint64 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 s_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

```

/*
 * tpccdbg.C - Provide debut utilities for thetpcc code.
 */

```

```

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
3
3 Date SIG Defect Remarks
3
3 04/15/1998 gal 084852 Added this header.
3
3 Last Changed : 98/04/15 19:58:15
3
*/
#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_fn;
    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, "=====");

    fprintf(debug_fp, "in_delivery_struct{\n");
    fprintf(debug_fp, "\tts_W_ID = %ld (%hX)\n",
            in_delivery->s_W_ID, in_delivery->s_W_ID);
    fprintf(debug_fp, "\tts_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, "\tts_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, "\t\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_newword_struct *newword_ptr,
               struct in_newword_struct *in_newword,
               char *msg)
{
    char debug_fn[DEBUG_FILENAME_SZ]= DB2OUT "new.debug.out";
    new_print(newword_ptr, in_newword, debug_fn, msg);
}

/*-----*/
/* new_print */
/*-----*/
void new_print (struct out_newword_struct *newword_ptr,
               struct in_newword_struct *in_newword,
               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, "New order debug information follows %s(%s)\n", timeStamp, msg);
    fprintf(debug_fp, "=====\n");

    fprintf(debug_fp, "in_newword_struct {\n");

    fprintf(debug_fp, "ts_C_ID = %ld (%lX)\n",
            in_newword->s_C_ID, in_newword->s_C_ID);
    fprintf(debug_fp, "ts_W_ID = %ld (%lX)\n",
            in_newword->s_W_ID, in_newword->s_W_ID);
    fprintf(debug_fp, "ts_D_ID = %hd (%hX)\n",
            in_newword->s_D_ID, in_newword->s_D_ID);
    fprintf(debug_fp, "ts_O_OL_CNT = %hd (%hX)\n",
            in_newword->s_O_OL_CNT, in_newword->s_O_OL_CNT);
    fprintf(debug_fp, "ts_all_local = %hd (%hX)\n",
            in_newword->s_all_local, in_newword->s_all_local);
    // fprintf(debug_fp, "ts_transtatus = %hd (%hX)\n",
    //         in_newword->s_transtatus, in_newword->s_transtatus);
    // fprintf(debug_fp, "tduplicate_items=%hd (%hX)\n",
    //         in_newword->duplicate_items, in_newword->duplicate_items);

    fprintf(debug_fp, "titems {\n");
    items = in_newword->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_newword->in_item[j].s_OL_I_ID, in_newword->in_item[j].s_OL_I_ID);
        fprintf(debug_fp, "ts_OL_SUPPLY_W_ID[%d]= %ld (%lX)\n",
                j, in_newword->in_item[j].s_OL_SUPPLY_W_ID, in_newword->in_item[j].s_OL_SUPPLY_W_ID);
        fprintf(debug_fp, "ts_OL_QUANTITY[%d] = %hd (%hX)\n",
                j, in_newword->in_item[j].s_OL_QUANTITY, in_newword->in_item[j].s_OL_QUANTITY);
    }
    fprintf(debug_fp, "\t}\n\n");

    fprintf(debug_fp, "out_newword_struct {\n");
    fprintf(debug_fp, "ts_C_LAST = %s\n",
            newword_ptr->s_C_LAST);
    fprintf(debug_fp, "ts_C_CREDIT = %s\n",
            newword_ptr->s_C_CREDIT);
#ifdef DB2_TIME_STRING
    fprintf(debug_fp, "ts_O_ENTRY_D = %s\n",
            newword_ptr->s_O_ENTRY_D);
#else
    // fprintf(debug_fp, "ts_O_ENTRY_D = %d\n",
    //         newword_ptr->s_O_ENTRY_D_time);
#endif
    fprintf(debug_fp, "ts_W_TAX = %0.4f\n",
            newword_ptr->s_W_TAX);
    fprintf(debug_fp, "ts_D_TAX = %0.4f\n",
            newword_ptr->s_D_TAX);
    fprintf(debug_fp, "ts_C_DISCOUNT = %0.4f\n",
            newword_ptr->s_C_DISCOUNT);
    fprintf(debug_fp, "ts_O_ID = %ld (%lX)\n",
            newword_ptr->s_O_ID, newword_ptr->s_O_ID);
    fprintf(debug_fp, "ts_O_OL_CNT = %hd (%hX)\n",
            newword_ptr->s_O_OL_CNT, newword_ptr->s_O_OL_CNT);
    fprintf(debug_fp, "ts_total_amount= %0.2f\n",
            newword_ptr->s_total_amount);
    fprintf(debug_fp, "ts_transtatus = %hd (%hX)\n",
            newword_ptr->s_transtatus, newword_ptr->s_transtatus);
    fprintf(debug_fp, "tdeadlocks = %hd (%hX)\n",
            newword_ptr->deadlocks, newword_ptr->deadlocks);

    // fprintf(debug_fp, "ts_W_ID = %ld (%lX)\n",
    //         newword_ptr->s_W_ID, newword_ptr->s_W_ID);
    // fprintf(debug_fp, "ts_D_ID = %hd (%hX)\n",
    //         newword_ptr->s_D_ID, newword_ptr->s_D_ID);
    // fprintf(debug_fp, "ts_all_local = %hd (%hX)\n",
    //         newword_ptr->s_all_local, newword_ptr->s_all_local);
    // fprintf(debug_fp, "tduplicate_items=%hd (%hX)\n",
    //         newword_ptr->duplicate_items, newword_ptr->duplicate_items);

    fprintf(debug_fp, "titems {\n");
    items = newword_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, newword_ptr->item[j].s_I_NAME);

```



```

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, "=====\n");

    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");

    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");

    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

```

/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 tpccmisc.C - Provide some useful utilities for thetpcc code.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Date SIG Defect Remarks
3
3 04/15/1998 gal 084852 Minor fixes for nightly build.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/15 19:58:18
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#ifdef(SQLWINT)
#include <windows.h>
#else
#include <sys/timeb.h>
#include <limits.h>
#endif
#include <time.h> /* for localtime() */
#include <stdio.h>
#include "sqlca.h"

#ifdef(SQLWINT)
#define RAND_A 16807
#define RAND_M 2147483647
#define RAND_M1 2147483646
#define RAND_MD 2147483647.0

```

```

#define RAND_Q 12773
#define RAND_R 2836

static int seed = 1;
static int seedflag = 0;

void srandom (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;
        srandom (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 chtime[32];

    time(&ltime);
    today = localtime(&ltime);

    strftime(chtime, 32, "%m/%d/%Y %H:%M:%S", today);
    printf("%s\n", chtime);

    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

```

/*
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 tpccutil.h - This file contains the definitions and structures used globally byTPCC.
3
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Source File Name: engn/perf/tpcckit/include/tpccutil.h,perf, db2nt_v3, c980410
3 SCCS Id. Number : 4/10/98 1.4
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/01 12:07:56
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/

#ifdef _TPCCUTIL_H
#define _TPCCUTIL_H

#ifdef _TPCCUTIL_C
#define EXTERN
#else
#define EXTERN extern

```

```

#endif

/*****
/* Type definition section.
*****/
#ifndef 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);

#ifndef 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 rnstats.sqc gendata1.sqc

SRC = $(HDR) $(C) $(SQC)
OBJ = misc.obj
EXEC = gendata2.exe gendata.exe cridx.exe rnstats.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)

rnstats.exe: $(OBJ) rnstats.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 rnstats.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=tcPIP -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 to gen the database
```

```
rem *****
```

```

set DB2_TABLEAPPENDMODE=
sleep 10
db2start

nmake -i -f makefile.ntrest 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 tpccdbmcf | tee %TPCC_MSGS%\tpccdbmcf.out
call tpccdbcf | tee %TPCC_MSGS%\tpccdbcf.out

db2stop
sleep 10
db2start

echo off
echo *****Redistribute is 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 DB2TEMPDIR=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,
        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 (6)

```



```

device "\\PhysicalDrive8Partition7470439,
device "\\PhysicalDrive9Partition7470439,
device "\\PhysicalDrive10Partition7470439,
device "\\PhysicalDrive11Partition7470439,
device "\\PhysicalDrive12Partition7470439,
device "\\PhysicalDrive13Partition7470439,
device "\\PhysicalDrive14Partition7470439,
device "\\PhysicalDrive15Partition7470439) on node (31)
using ( device "\\PhysicalDrive2Partition7470439,
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 temp space1;

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 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;

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
{
fprintf(stdout, "Pick table to be created: \n");
fprintf(stdout, "1. all tables (ITEM with no extra col)\n");
fprintf(stdout, "2. warehouse \n");
fprintf(stdout, "3. district \n");
fprintf(stdout, "4. bitem \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. item1 \n");
fprintf(stdout, "12. item with extra col \n");
fprintf(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:
fprintf(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 \tpeckit_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 \tpcckit_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_SZ0"
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_SZ64"
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 logprimary2 logfilsiz 5000 logsecond 0
db2 -v update db cfg for tpcc using newlogpath C:\TPCC\NODE0000\SQL00001\SQLQLOGDIR
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

```
1 2 1 1 5 1 7 8 1 2 11 5 7 8 8 16 17 8 8 20 21 22 23 24 8
26 8 28 29 30 8 11 1 2 3 11 5 11 7 8 16 10 11 1 16 22 21 16 17 16
22 20 21 22 23 24 25 26 22 28 29 30 22 22 1 2 3 4 5 6 7 8 22 10 11
22 13 23 23 16 17 23 19 20 21 22 23 24 25 26 24 28 29 30 20 24 1 2 3 4
5 6 7 8 28 10 11 12 13 28 15 16 17 18 19 20 21 22 23 24 25 26 28 28 29
30 29 28 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 30 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
2 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 29 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 3 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 4
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 10 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 6
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
```



```

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
mstats 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
mstats 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
mstats 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
mstats 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 sheaphres 204800
sleep 10
db2start
set RAH_DO_ALL_LOGICAL_NODES=YES
rah "<<<-0< db2 update db cfg for %TPCC_DBNAME% using SORTHEAP 102400"
rah "<<<-0< db2 update db cfg for %TPCC_DBNAME% using UTIL_HEAP_SZ 102400"
rah "<<<-0< db2 -v update db cfg for %TPCC_DBNAME% using DBHEAP 10240"
rem
rah "<<<-0< 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  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;
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();
elapsed = timestamp2 - timestamp1;
printf("Warehouse index created in %8.2f seconds.\n", elapsed);
}

/*-----*/
/* 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();
    elapsed = timestamp2 - timestamp1;
    printf("District table index created in %8.2f seconds.\n", elapsed);
}

/*-----*/
/* 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();
    elapsed = timestamp2 - timestamp1;
    printf("Customer table index created in %8.2f seconds.\n", elapsed);
}

/*-----*/
/* 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();
elapsed = timestamp2 - timestamp1;
printf("Customer table index created in %8.2f seconds.\n", elapsed);
}

/*-----*/
/* 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();
    elapsed = timestamp2 - timestamp1;
    printf("New_order table index created in %8.2f seconds.\n", elapsed);
}

/*-----*/
/* 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();
elapsed = timestamp2 - timestamp1;
printf("Orders table index created in %8.2f seconds.\n", elapsed);
}

```

```

/*-----*/
/* create index for order-line table */
/*-----*/

```

```

void crix_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(oline_w_id, oline_d_id, oline_o_id, oline_number)
include (oline_i_id, oline_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();
elapsed = timestamp2 - timestamp1;
printf("Order_line table index created in %8.2f seconds.\n", elapsed);
}

```

mstats.sqc

```

/*****
/* file: mstats.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 sqllda ;

```

```

/* 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 *tblname, char *idxls[]);

```

```

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;
}

```

```

#ifdef NT
/* sprintf(username, "tpccuser"); CHADWICK CHOW */
//sprintf(username, "nullid");
sprintf(username, "TPCC");
#else
#ifdef OS2
if (!defined(OS2)) /* Itang 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 */
    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();
    rnst_oline_tbl();
    break;
case 2: /* WAREHOUSE */
    rnst_ware_tbl();
    break;
case 3: /* DISTRICT */
    rnst_dist_tbl();
    break;
case 4: /* ITEM */
    rnst_item_tbl();
    break;
case 5: /* STOCK */
    rnst_stock_tbl();
    break;
case 6: /* CUSTOMER */
    rnst_cust_tbl();
    break;
case 7: /* HISTORY */
    rnst_hist_tbl();
    break;
case 8: /* ORDERS */
    rnst_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 rst_dist_tbl( void )
{
char *idxs[] = {"dist_idx1"};
(void) rst("DISTRICT", idxs);
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 rst_cust_tbl( void )
{
char *idxs[] = {"cust_idx1", "cust_idx2"};
(void) rst("CUSTOMER", idxs);
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 rst_hist_tbl( void )
{
char *idxs[] = {NULL};
(void) rst("HISTORY", idxs);
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 rst_nu_ord_tbl( void )
{
char *idxs[] = {"nu_ord_idx1"};
(void) rst("NEW_ORDER", idxs);
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 rst_ordr_tbl( void )
{

```

```

char *idxs1[] = {"ordr_idx1", "ordr_idx2"};
(void) rst("ORDERS", idxs1);
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 rst_oline_tbl( void )
{
char *idxs2[] = {"oline_idx1"};
(void) rst("ORDER_LINE", idxs2);
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 rst(char *tname, char *idxs[])
{
double timestamp1, timestamp2, elapse;
char full_tname[40];

sprintf(full_tname, "%s.%s", username, tname);
printf("runstats for %s ..... ", full_tname);
timestamp1 = current_time();
if (idxs == NULL)
sqlustat(full_tname, 0, idxs, 'T', 'R', &sqlca);
else
sqlustat(full_tname, 0, idxs, '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 NNode you want to run!"
db2start
time /t
db2 backup db tpcc to c:\TPCC_BACKUP_NODE0_image2\
time /t

```

backup2.bat

```

call c:\tpckit_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_image2_all.bat 2>&1 | tee backup_image2_all.out
pause
sleep 30
start rsh fsnode01 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode02 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode03 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode04 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode05 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode06 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode07 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode08 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode09 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode10 c:\tpckit_mln\utils\backup2.bat

```

```

sleep 30
start rsh fsnode11 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode12 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode13 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode14 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode15 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode16 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode17 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode18 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode19 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode20 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode21 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode22 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode23 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode24 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode25 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode26 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode27 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode28 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode29 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode30 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode31 c:\tpckit_mln\utils\backup2.bat
sleep 30
start rsh fsnode32 c:\tpckit_mln\utils\backup2.bat
date /t
time /t

```

restoreit_test.bat

```

call c:\tpckit_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 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 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 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

```

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 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

```

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 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 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

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 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 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,

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#         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

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#     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 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
```

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

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```

# 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 nodenum. 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

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# 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

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#           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 colde| 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

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```

# 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 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).

```

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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 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 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,

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# 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,
#
#

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#           (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 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

```

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 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 warehouse.dat of del modified by coldel| replace into tpcc.warehouse

# ASC data file
# -----
# db2 load from your_data of asc modified by reflen=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

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```

#          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,

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# 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>

#####
#
# 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 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

```

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 miscellenous 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
*         argv - array of argument pointers
*
* Output = Partition Map
*
* Normal Return = 0
*
* Error Return = error message will be printed
*
*****/

int main ( int argc, char * argv[])
{
    int i,j,ii; /* counters */
    int start_bucket,last_bucket; /* position indicators in map*/

    log_fp = fopen (logf,"a");
    if ( log_fp == NULL )
    {
        printf ("\nCannot 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\t\tVersion 1.10\n");
    fprintf (log_fp, "\n\t\tDB2 Universal Database EEE PMAP Generator");
    fprintf (log_fp, "\n\t\t\tVersion 1.10\n");

    /*****/
    /* Parse the command line */
    /*****/
    comm_line_parse(argc,argv);

    /*****/
    /* make sure input and output PMAP are not the same */
    /*****/
    if ((strcmp(inpmap,outpmap,256))==0)

```

```

{
    printf ("\nInput and Output PMAP cannot be the same.");
    fprintf (log_fp, "\nInput 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 ("\nCannot open 'Output Map File %s'.\n", outpmap);
    fprintf (log_fp, "\nCannot 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("\t(not 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. %s.\n", distfil);
        fprintf(log_fp, "\nCannot open input distribution file. %s.\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("\nDistribution file has only %d entries", i);
            fprintf(log_fp, "\nDistribution file 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("\nDistribution data is invalid for %d", partition);
            fprintf(log_fp, "\nDistribution data 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,"nTotaltable 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:%dis 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("ntryingto 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("nmovingpartition:%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\nPMPAGenerator completed with return code:%d\n",rc);
printf("n\nPMPAGenerator 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,"\n makepmap -- 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 therelaive");
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 db2gpmap 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:\tpcekit_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_all_history.bat

gendata1 history >> %TPCC_DATA2%\history.dat

gen_all_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

```
/*AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 lval.h - For testing small tpcc databases, the following defines can be set to depending
3 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 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

```
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 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Source File Name: engn/perf/tpcckit/include/lval.h.perf, db2nt_v3, c980410
3 SCCS Id. Number : 4/10/98 1.5
3 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3 Last Changed : 98/04/06 11:04:51
3 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
*/
```

```
#ifndef __LVAL_H
#define __LVAL_H

#define WAREHOUSES           41760
#define DISTRICTS_PER_WAREHOUSE 10
#define CUSTOMERS_PER_DISTRICT 3000
#define ITEMS                100000
#define STOCK_PER_WAREHOUSE  ITEMS
#define MIN_OL_PER_ORDER     5
#define MAX_OL_PER_ORDER     15
#define NU_ORDERS_PER_DISTRICT 900

#endif
```

gendata.sqj

```
/******
/* file: gendata.sqj */
/* */
/* 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 withsas02 codes. */
/* */
/* Scott Murray in October 1997 to complete NT named pipe support */
/* */
/******
#include "ctest.h"
#include "../include/lval.h"
#include <stdlib.h>

#if defined (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 );

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 currttime;
char  dbname[8] = "dbbench";
long  currtmstmp;
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

/*-----*/
/*  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 = 1;

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\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,"nEnteroption: ");
    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", 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... */

#if defined (NT)
/* GSM, for NT named pipes */
if(using_npipes)
{
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();
elapsed = timestamp2 - timestamp1;
fprintf(stderr, "Item table loaded in %8.2f seconds.\n\n", elapsed);
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;
#if defined (NT)
/* GSM!, for NT named pipe */
HANDLE hNamedPipe;
char Buffer[1024];
DWORD numBytes;

```

```

#endif

sqlca.sqlcode = 0;
initialize_random(7,11);

#if defined (NT)
if(using_npipes)
{
if(PipeOpen(&hNamedPipe) != 0)
{
fprintf(stderr, "Pipe open error, exiting\n");
fflush(stderr);
exit(-1);
}
}
}
#endif

timestamp1 = current_time();

for (stock_num = 1; stock_num <= STOCK_PER_WAREHOUSE; stock_num++)
{
if (stock_num % 500 == 0)
{
fprintf(stderr, "Now generating Stock for item#%d\n", stock_num);
fflush(stderr);
}
for (ware_num = ware_base; ware_num <= ware_max; ware_num++)
{
stock_quant = rand_integer(10, 100);
create_random_a_string(stock_dist_01, 24, 24);
create_random_a_string(stock_dist_02, 24, 24);
create_random_a_string(stock_dist_03, 24, 24);
create_random_a_string(stock_dist_04, 24, 24);
create_random_a_string(stock_dist_05, 24, 24);
create_random_a_string(stock_dist_06, 24, 24);
create_random_a_string(stock_dist_07, 24, 24);
create_random_a_string(stock_dist_08, 24, 24);
create_random_a_string(stock_dist_09, 24, 24);
create_random_a_string(stock_dist_10, 24, 24);

/* create ORIGINAL field */
create_a_string_with_original(stock_data, 26, 50, 10.5, &hit);
s_ytd = s_order_cnt = s_remote_cnt = 0;

if (!using_db2)
{
#if defined (NT)
if(using_npipes)
{
numBytes = sprintf(Buffer,
"%d|%hd|%hd|%hd|%hd|%d|%s|%s|%s|%s|%s|%s|%s|%s|\n",
stock_num,
ware_num,
s_remote_cnt,
stock_quant,
s_order_cnt,

```



```

char Buffer[1024];
DWORD numBytes;
#endif

sqlca.sqlcode = 0;
initialize_random(23,111);

#if defined (NT)
if(using_npipe)
{
if(PipeOpen(&hNamedPipe)!= 0)
{
fprintf(stderr, "Pipe open error, exiting\n");
fflush(stderr);
exit(-1);
}
}
#endif

fprintf(stderr, "Now generating Warehouse\n");
fflush(stderr);

timestamp1 = current_time();

for (ware_num = ware_base; ware_num <= ware_max; ware_num++)
{
fprintf(stderr, "\tWarehouse #\t%d", ware_num);

create_random_a_string(ware_name, 6,10); /* create name */
create_random_a_string(ware_street_1, 10,20); /* create street 1 */
create_random_a_string(ware_street_2, 10,20); /* create street 2 */
create_random_a_string(ware_city, 10,20); /* create city */
create_random_a_string(ware_state, 2,2); /* create state */
create_random_n_string(ware_zip, 4,4); /* create zip */
streat(ware_zip, "11111");

ware_tax = ((double) rand_integer(0, 2000)) / (double)10000.0;

if(!using_db2)
{
#if defined (NT)
if(using_npipe)
{
numBytes = sprintf(Buffer,
"%hd|%s|%s|%s|%s|%s|f%\n",
ware_num,
ware_name,
ware_street_1,
ware_street_2,
ware_city,
ware_state,
ware_zip,
ware_tax,
300000.0);

PipeWrite(hNamedPipe, Buffer, numBytes);

```

```

}
else
{
#endif
printf("%hd|%s|%s|%s|%s|%s|f%\n",
ware_num,
ware_name,
ware_street_1,
ware_street_2,
ware_city,
ware_state,
ware_zip,
ware_tax,
300000.0);
#if defined (NT)
}
}
#endif
}
else
{
EXEC SQL
insert into WAREHOUSE
values(:ware_num, :ware_name, :ware_street_1, :ware_street_2,
:ware_city, :ware_state, :ware_zip, :ware_tax, 300000.0);
if(sqlca.sqlcode != 0)
{
SQLERR(&sqlca, "INSERT WAREHOUSE");
}
else
{
--ins_cnt;
if(ins_cnt == 0)
{
ins_cnt = COMMIT_CNT;
EXEC SQL commit work ;
if(sqlca.sqlcode != 0)
SQLERR(&sqlca, "COMMIT work");
}
}
} /* end for */
#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, "Warehouse table loaded in %8.2f seconds.\n\n", elapsed);
fflush(stderr);

return;
}

/*-----*/
/* load dist table */
/*-----*/
void load_dist_tbl( void )
{
EXEC SQL BEGIN DECLARE SECTION;
char dist_name[11];
char dist_street_1[21];
char dist_street_2[21];
char dist_city[21];
char dist_state[3];
char dist_zip[10];
double dist_tax;
long next_o_id;
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

next_o_id = CUSTOMERS_PER_DISTRICT + 1;
sqlca.sqlcode = 0;
initialize_random(44,73);

#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 Districts for Warehouse # %d\n", ware_num);
for(dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
{

```

```

create_random_a_string(dist_name, 6,10); /* create name */
create_random_a_string(dist_street_1, 10,20); /* create street 1 */
create_random_a_string(dist_street_2, 10,20); /* create street 2 */
create_random_a_string(dist_city, 10,20); /* create city */
create_random_a_string(dist_state, 2,2); /* create state */
create_random_n_string(dist_zip, 4,4); /* create zip */
strcat(dist_zip, "11111");
/*dist_tax = create_random_float_val_return(0.0, 0.2000); */
dist_tax = ((double) rand_integer(0,2000)) / (double)10000.0;

if(!using_db2)
{
#ifdef NT
if(using_npipe)
{
numBytes = sprintf(Buffer,
"%hd|%hd|%s|%s|%s|%s|%s|%s|f|f|%d\n",
dist_num,
ware_num,
dist_name,
dist_street_1,
dist_street_2,
dist_city,
dist_state,
dist_zip,
dist_tax,
30000.0,
next_o_id);
PipeWrite(hNamedPipe, Buffer, numBytes);
}
else
{
#endif
printf("%hd|%hd|%s|%s|%s|%s|%s|%s|f|f|%d\n",
dist_num,
ware_num,
dist_name,
dist_street_1,
dist_street_2,
dist_city,
dist_state,
dist_zip,
dist_tax,
30000.0,
next_o_id);
#ifdef NT
}
#endif
}
else
{
EXEC SQL
insert into DISTRICT
values(:dist_num,:ware_num,:dist_name,:dist_street_1,
:dist_street_2,:dist_city,:dist_state,:dist_zip,
:dist_tax,30000.0,:next_o_id);

```

```

if (sqlca.sqlcode != 0)
{
    SQLERR(&sqlca, "");
}
else
{
    --ins_cnt;
    if (ins_cnt == 0)
    {
        ins_cnt = COMMIT_CNT;
        EXEC SQL commit work ;
        if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
    }
}
}
/* fprintf(stderr, "\tDistrict %ld loaded, sqlcode=%d\n", dist_num, sqlca.sqlcode); */
}
} /* end for... */

#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, "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*)&currtime);

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 */
streat(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)
{
#ifdef (NT)
    if(using_npipe)
    {
        numBytes = sprintf(Buffer,
            "%d|%hd|%hd|"
            "%s|%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);

        PipeWrite(hNamedPipe, Buffer, numBytes);
    }
    else

```

```

{
#ifdef (NT)
    printf("%d|%hd|%hd|"
        "%s|%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);
#ifdef (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, "Customertable 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*)&currmtmstp);

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|%hd|%d|%d|\n",
            cust_num,
            dist_num,
            dist_num,
            ware_num,
            dist_num,
            ware_num,
            currmtmstp,
            1000,
            hist_data);

          PipeWrite(hNamedPipe, Buffer, numBytes);
        }
        else
        {
#endif
          printf("%d|%hd|%hd|%hd|%hd|%hd|%d|%d|\n",
            cust_num,
            dist_num,
            dist_num,
            ware_num,
            dist_num,
            ware_num,
            currmtmstp,
            1000,
            hist_data);
        }
      }
    }
  }
}

#if defined (NT)
}
#endif
}
else
{
  EXEC SQL
  insert into HISTORY
  values(:cust_num, :dist_num, :ware_num, :dist_num,
    :ware_num, :currmtmstp, 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 <= 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)
            {
                #if defined (NT)
                if(using_npipe)
                {
                    numBytes = sprintf(Buffer,
                                        "%d|h|h|h\n",
                                        nu_ord_id,
                                        dist_num,
                                        ware_num);

                    PipeWrite(hNamedPipe, Buffer, numBytes);
                }
                else

```

```

    {
#endif
    printf("%d|%d|%d\n",nu_ord_id,dist_num,ware_num);
#ifdef (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");*/
}

#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 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;
#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*)&curr_tmstamp);

```

```

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,
                                currtmstp,
                                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,
                                    currtmstp,
                                    ord_carrier_id,
                                    ord_ol_cnt,
                                1);
                        }
                    }
                }
            }
        }
    }
}

```

```

    1);

    PipeWrite(hNamedPipe, Buffer, numBytes);
}
else
{
#endif
    printf("%d|%d|%d|%d|%d|%d|%d|\n",
            ord_num,
            cust_num,
            dist_num,
            ware_num,
            currtmstp,
            ord_carrier_id,
            ord_ol_cnt,
            1);
#ifdef (NT)
}
#endif
}
else
{
    EXEC SQL insert into ORDERS
        values (:ord_num, :cust_num, :dist_num, :ware_num,
                :currtmstp, :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,

```



```

}
#endif 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();
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 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;
}

/* Function 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 defined (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 sqlda ;

/* 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 currtmstp;
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)
  {
    #if defined (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);
      #if defined (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... */

#if defined (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();
elapsed = timestamp2 - timestamp1;
fprintf(stderr, "Item table loaded in %8.2f seconds.\n\n", elapsed);
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];

```



```

{
EXEC SQL
insert into STOCK
values(:stock_num, :ware_num, :s_remote_cnt, :stock_quant,
      :s_order_cnt, :s_ytd,
      :stock_dist_01, :stock_dist_02,
      :stock_dist_03, :stock_dist_04,
      :stock_dist_05, :stock_dist_06,
      :stock_dist_07, :stock_dist_08,
      :stock_dist_09, :stock_dist_10,
      :stock_data );
if(sqlca.sqlcode != 0)
{
SQLERR(&sqlca, "INSERT STOCK");
}
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... */

#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, "Stock table loaded in %8.2f seconds.\n\n", elapsed);
fflush(stderr);

return;
}

/*-----*/
/* load warehouse table */
/*-----*/
void load_ware_tbl( void )
{

```

```

EXEC SQL BEGIN DECLARE SECTION;
char ware_name[11];
char ware_street_1[21];
char ware_street_2[21];
char ware_city[21];
char ware_state[3];
char ware_zip[10];
double ware_tax;
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(23,111);

#if defined (NT)
if(using_npipe)
{
if(PipeOpen(&hNamedPipe) != 0)
{
fprintf(stderr, "Pipe open error, exiting\n");
fflush(stderr);
exit(-1);
}
}
#endif

fprintf(stderr, "Now generating Warehouse\n");
fflush(stderr);

timestamp1 = current_time();

for (ware_num = ware_base; ware_num < maxLocalWarehouse; ware_num++)
{
//fprintf(stderr, "\tWarehouse #%d", ware_num);

create_random_a_string(ware_name, 6,10); /* create name */
create_random_a_string(ware_street_1, 10,20); /* create street 1 */
create_random_a_string(ware_street_2, 10,20); /* create street 2 */
create_random_a_string(ware_city, 10,20); /* create city */
create_random_a_string(ware_state, 2,2); /* create state */
create_random_n_string(ware_zip, 4,4); /* create zip */
strcat(ware_zip, "11111");

ware_tax = ((double) rand_integer(0,2000)) / (double)10000.0;

if(!using_db2)
{
#if defined (NT)
if(using_npipe)

```

```

{
    numBytes = sprintf(Buffer,
        "%ld%s%s%s%s%s%s%s%s%s\n",
        warehouseMap[ware_num],
        ware_name,
        ware_street_1,
        ware_street_2,
        ware_city,
        ware_state,
        ware_zip,
        ware_tax,
        300000.0);

    PipeWrite(hNamedPipe, Buffer, numBytes);
} /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
else
{
#endif
    printf("%ld%s%s%s%s%s%s%s%s%s\n",
        warehouseMap[ware_num],
        ware_name,
        ware_street_1,
        ware_street_2,
        ware_city,
        ware_state,
        ware_zip,
        ware_tax,
        300000.0);
#endif defined (NT)
} /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
#endif
else
{
    EXEC SQL
    insert into WAREHOUSE
    values(:ware_num, :ware_name, :ware_street_1, :ware_street_2,
        :ware_city, :ware_state, :ware_zip, :ware_tax, 300000.0);
    if(sqlca.sqlcode != 0)
    {
        SQLERR(&sqlca, "INSERT WAREHOUSE");
    }
    else
    {
        --ins_cnt;
        if(ins_cnt == 0)
        {
            ins_cnt = COMMIT_CNT;
            EXEC SQL commit work ;
            if(sqlca.sqlcode != 0)
                SQLERR(&sqlca, "COMMIT work");
        }
    }
}
} /* end for */

```

```

#endif 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, "Warehouse table loaded in %8.2f seconds.\n\n", elapsed);
fflush(stderr);

return;
}

/*-----*/
/* load dist table */
/*-----*/
void load_dist_tbl(void)
{
    EXEC SQL BEGIN DECLARE SECTION;
    char dist_name[11];
    char dist_street_1[21];
    char dist_street_2[21];
    char dist_city[21];
    char dist_state[3];
    char dist_zip[10];
    double dist_tax;
    long next_o_id;
    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

    next_o_id = CUSTOMERS_PER_DISTRICT + 1;
    sqlca.sqlcode = 0;
    initialize_random(44,73);

    #if defined (NT)
    if(using_npipe)
    {
        if(PipeOpen(&hNamedPipe) != 0)
        {

```

```

    fprintf(stderr, "Pipe open error, exiting\n");
    flush(stderr);
    exit(-1);
}
#endif

timestamp1 = current_time();

for (ware_num = ware_base; ware_num < maxLocalWarehouse; ware_num++)
{
    fprintf(stderr, "Now generating Districts for Warehouse #%d\n", ware_num);
    for (dist_num = 1; dist_num <= DISTRICTS_PER_WAREHOUSE; dist_num++)
    {
        create_random_a_string(dist_name, 6,10); /* create name */
        create_random_a_string(dist_street_1, 10,20); /* create street 1 */
        create_random_a_string(dist_street_2, 10,20); /* create street 2 */
        create_random_a_string(dist_city, 10,20); /* create city */
        create_random_a_string(dist_state, 2,2); /* create state */
        create_random_n_string(dist_zip, 4,4); /* create zip */
        strcat(dist_zip, "11111");
        /*dist_tax = create_random_float_val_return(0.0, 0.2000); */
        dist_tax = ((double) rand_integer(0, 2000)) / (double)10000.0;

        if (!using_db2)
        {
            #if defined (NT)
                if (using_npipe)
                {
                    numBytes = sprintf(Buffer,
                        "%hd|%d|%s|%s|%s|%s|%s|%f|%f|%d\n",
                        dist_num,
                        warehouseMap[ware_num],
                        dist_name,
                        dist_street_1,
                        dist_street_2,
                        dist_city,
                        dist_state,
                        dist_zip,
                        dist_tax,
                        30000.0,
                        next_o_id);
                    PipeWrite(hNamedPipe, Buffer, numBytes);
                } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
                else
                {
                    #endif
                    printf("%hd|%d|%s|%s|%s|%s|%s|%s|%f|%f|%d\n",
                        dist_num,
                        warehouseMap[ware_num],
                        dist_name,
                        dist_street_1,
                        dist_street_2,
                        dist_city,
                        dist_state,
                        dist_zip,

```

```

                        dist_tax,
                        30000.0,
                        next_o_id);
            #if defined (NT)
                } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
            #endif
        }
        else
        {
            EXEC SQL
            insert into DISTRICT
            values(:dist_num,:ware_num,:dist_name,:dist_street_1,
                :dist_street_2,:dist_city,:dist_state,:dist_zip,
                :dist_tax,30000.0,:next_o_id);
            if (sqlca.sqlcode != 0)
            {
                SQLERR(&sqlca, "");
            }
            else
            {
                --ins_cnt;
                if (ins_cnt == 0)
                {
                    ins_cnt = COMMIT_CNT;
                    EXEC SQL commit work ;
                    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "COMMIT work");
                }
            }
        }
        /* fprintf(stderr, "\tDistrict %ld loaded, sqlcode=%d\n", dist_num, sqlca.sqlcode); */
    }
} /* end for... */

#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, "District table loaded in %8.2f seconds.\n\n", elapsed);
flush(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;
#ifdef NT
    /* GSM!, for NT named pipe */
    HANDLE hNamedPipe;
    char Buffer[1024];
    DWORD numBytes;
#endif

    sqlca.sqlcode = 0;
    initialize_random(10,64);

#ifdef 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*)&currtmstp);

    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)
        {
#ifdef NT
            if(using_npipe)
            {
                numBytes = sprintf(Buffer,
                    "%d|%hd|%d|"
                    "%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,

```



```

        currtmstp,
        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|%d|%d|"
           "%s|%s|"
           "%s|%s|%s|%s|%s|"
           "%d|%s|f|"
           "%f|%hd|%f|%hd|%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,
           currtmstp,
           cust_credit,
           50000.00,
           cust_discount,
           0,
           -10.0,
           10.0,
           1,
           cust_data1,
           cust_data2);
#endif defined (NT)
} /* 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, :currtmstp, :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 customer... */
} /* end for warehouse... */
} /* end for district... */
#endif 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;
#endif 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 < 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|\s\n",
cust_num,
dist_num,
warehouseMap[ware_num],
dist_num,
warehouseMap[ware_num],
currtmstp,
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|\s\n",
cust_num,
dist_num,
warehouseMap[ware_num],
dist_num,

```

```

warehouseMap[ware_num],
currtmstp,
1000,
hist_data);
#if defined (NT)
} /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
#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 < 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)
                {
#ifdef NT
                    if (using_npipe)
                    {
                        numBytes = sprintf(Buffer,
                                           "%d|%hd|%d\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|%d\n", nu_ord_id, dist_num, warehouseMap[ware_num]);
                        /* change %hd to %ld for warehouseMap[ware_num]@000516AYL */
#ifdef 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"); */
}

#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;
    FILE *warehouse_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 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;
#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 *)&curr_tmstamp);

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)
                ordr_carrier_id = rand_integer(1, 10);
            else
                ordr_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],
                                curr_tmstamp,
                                ordr_carrier_id,

```

```

        ord_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|%d\n",
            ord_num,
            cust_num,
            dist_num,
            warehouseMap[ware_num],
            currtmstp,
            ord_carrier_id,
            ord_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|%d\n",
        ord_num,
        cust_num,
        dist_num,
        warehouseMap[ware_num],
        currtmstp,
        ord_carrier_id,
        ord_ol_cnt,
        1);

#if defined (NT)
    } /* change %d to %ld for warehouseMap[ware_num] @000516AYL */
#endif
}
}
else
{
EXEC SQL insert into ORDERS
values( :ord_num, :cust_num, :dist_num, :ware_num,
        :currtmstp, :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|%ld|%hd|%d|%ld|%d|%hd|%d|%s\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|%hd|%ld|%hd|%d|%ld|%d|%hd|%d|%s\n",
                    ord_num,
                    dist_num,
                    warehouseMap[ware_num],
                    oline_ol_num,
                    oline_item_num,
                    warehouseMap[ware_num],
                    currtmstp,
                    5,
                    oline_amount,
                    oline_dist_info);

#if 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,
                :currtmstp, 5, :oline_amount,

```

```

        :oline_dist_info);
    if (sqlca.sqlcode != 0) SQLERR(&sqlca, "77");
    }
    else
    {
        if (!using_db2)
        {
            #if defined (NT)
            if(using_npipe)
            {
                numBytes = sprintf(Buffer,
                    "%d|%hd|%ld|%hd|%d|%hd|%d|%hd|%d|%s\n",
                    ord_num,
                    dist_num,
                    warehouseMap[ware_num],
                    oline_ol_num,
                    oline_item_num,
                    warehouseMap[ware_num],
                    null_tmstamp,
                    5,
                    oline_amount,
                    oline_dist_info);

                PipeWrite(hNamedPipe, Buffer, numBytes);
            } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
            else
            {
                #endif

                printf("%d|%hd|%ld|%hd|%d|%hd|%d|%hd|%d|%s\n",
                    ord_num,
                    dist_num,
                    warehouseMap[ware_num],
                    oline_ol_num,
                    oline_item_num,
                    warehouseMap[ware_num],
                    null_tmstamp,
                    5,
                    oline_amount,
                    oline_dist_info);

                #if defined (NT)
            } /* change %hd to %ld for warehouseMap[ware_num] @000516AYL */
            #endif
            }
        }
        EXEC SQL
        insert into ORDER_LINE
        values( :ord_num, :dist_num, :ware_num, :oline_ol_num,
            :oline_item_num, :ware_num,
            :null_tmstamp, 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);
}
}

#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");
}
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;
}

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.sqld, 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();
}

#ifdef 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_MULTI_MANUAL);

```

```

// 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 occured : %s.\nSQLCODE : %ld\n", eString,
caPointer->sqlcode);

/*****
* GET SQLSTATE MESSAGE *
*****/
rc = sqlgostt (sBuffer, 1024, 80, caPointer->sqlstate);

/*****
* GET ERROR MESSAGE API called *
*****/
Erc = sqlaintp (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:\tpckit_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:\tpckit_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 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 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\SessionManager\I/O Subsystem DWORD value CountOperations 0. The last registry edition disables some system performance counters for

I/O. Set HKLM\SYSTEM\CurrentControlSet\SessionManager\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"="infcotrs.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,01,10,25,00,00,00,00,00,00
"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\\inetrv"
"CertMapList"="C:\\WINNT\\System32\\inetrv\\iisrmap.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\\inetrv\\iisadmin,,1"
"/IISamples"="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
"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,00,00,00,14,00,00,00,30,00,00,02,\
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,\
05,12,00,00,00,74,00,6f,00,00,00,1c,00,ff,01,0f,00,01,02,00,00,00,00,05,\
20,00,00,00,20,02,00,00,72,00,73,00,00,00,18,00,8d,01,02,00,01,01,00,00,\
00,00,05,0b,00,00,00,20,02,00,00,00,1c,00,fd,01,02,00,01,02,00,00,00,\
00,05,20,00,00,00,23,02,00,00,72,00,73,00,01,01,00,00,00,00,05,12,00,00,\
00,01,01,00,00,00,00,05,12,00,00
```

```
[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 (DATALINKS)= 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_CONNRETRIES)= 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)= 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)= 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) (LOGFILSIZ)= 5000
Number of primary log files (LOGPRIMARY)= 2
Number of secondary log files (LOGSECOND)= 0
Changed path to log files (NEWLOGPATH)=
= C:\TPCC\NODE0000\SQL00001\SQLLOGDIR\
First active log file = S0000039.LOG
Group commit count (MINCOMMIT)= 3
Percent log file reclaimed before soft chckpt (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)= 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)= 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) (LOGFILSIZ)= 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 ckckpt (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

```
[c] 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
Description: 02E
Directory: c:\rtelogs\log02E.log
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

Name: FSRTE02F

Description: 02F
Directory: c:\rtelogs\log02F.log
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

Name: FSRTE03A
Description: 03A
Directory: c:\rtelogs\log03A.log
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

Name: FSRTE03B
Description: 03B
Directory: c:\rtelogs\log03B.log
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
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE03C
Description: 03C

Directory: c:\rtelogs\log03C.log
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

Name: FSRTE03D
Description: 03D
Directory: c:\rtelogs\log03D.log
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

Name: FSRTE03E
Description: 03E
Directory: c:\rtelogs\log03E.log
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

Name: FSRTE03F
Description: 03F
Directory: c:\rtelogs\log03F.log

Machine: FSRTE03
Parameter Set: PARAM2
Index: 51000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE03F445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE04A
Description: 04A
Directory: c:\rtelogs\log04A.log
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

Name: FSRTE04B
Description: 04B
Directory: c:\rtelogs\log04B.log
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

Name: FSRTE04C
Description: 04C
Directory: c:\rtelogs\log04C.log
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

Name: FSRTE04D
Description: 04D
Directory: c:\rtelogs\log04D.log
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
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE06D
Description: 06D
Directory: c:\rtelogs\log06D.log
Machine: FSRTE06
Parameter Set: PARAM2
Index: 99000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE06D445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE06E
Description: 06E
Directory: c:\rtelogs\log06E.log
Machine: FSRTE06
Parameter Set: PARAM2
Index: 102000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE06E445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE06F
Description: 06F
Directory: c:\rtelogs\log06F.log
Machine: FSRTE06
Parameter Set: PARAM2
Index: 105000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE06F445560656

Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND:257
CPU: 1

Name: FSRTE07A
Description: 07A
Directory: c:\rtelogs\log07A.log
Machine: FSRTE07
Parameter Set: PARAM2
Index: 108000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE07A445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND:257
CPU: 0

Name: FSRTE07B
Description: 07B
Directory: c:\rtelogs\log07B.log
Machine: FSRTE07
Parameter Set: PARAM2
Index: 111000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE07B445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND:257
CPU: 1

Name: FSRTE07C
Description: 07C
Directory: c:\rtelogs\log07C.log
Machine: FSRTE07
Parameter Set: PARAM2
Index: 114000000
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

Name: FSRTE07D
Description: 07D
Directory: c:\rtelogs\log07D.log
Machine: FSRTE07
Parameter Set: PARAM2
Index: 117000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE07D445560656
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND:257
CPU: 1

Name: FSRTE07E
Description: 07E
Directory: c:\rtelogs\log07E.log
Machine: FSRTE07
Parameter Set: PARAM2
Index: 120000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE07E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND:257
CPU: 0

Name: FSRTE07F
Description: 07F
Directory: c:\rtelogs\log07F.log
Machine: FSRTE07
Parameter Set: PARAM2
Index: 123000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE07F445560671
Connect Rate: 160
Start Rate: 0

Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND:257
CPU: 1

Name: FSRTE08A
Description: 08A
Directory: c:\rtelogs\log08A.log
Machine: FSRTE08
Parameter Set: PARAM2
Index: 126000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE08A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND:257
CPU: 0

Name: FSRTE08B
Description: 08B
Directory: c:\rtelogs\log08B.log
Machine: FSRTE08
Parameter Set: PARAM2
Index: 129000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE08B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND:257
CPU: 1

Name: FSRTE08C
Description: 08C
Directory: c:\rtelogs\log08C.log
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

Name: FSRTE08D
Description: 08D
Directory: c:\rtelogs\log08D.log
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

Name: FSRTE08E
Description: 08E
Directory: c:\rtelogs\log08E.log
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

Name: FSRTE08F
Description: 08F
Directory: c:\rtelogs\log08F.log
Machine: FSRTE08
Parameter Set: PARAM2
Index: 141000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE08F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 1

Name: FSRTE09A
Description: 09A
Directory: c:\rtelogs\log09A.log
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

Name: FSRTE09B
Description: 09B
Directory: c:\rtelogs\log09B.log
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

Name: FSRTE09C
Description: 09C
Directory: c:\rtelogs\log09C.log
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

Name: FSRTE09D
Description: 09D
Directory: c:\rtelogs\log09D.log
Machine: FSRTE09
Parameter Set: PARAM2
Index: 153000000
Seed: 46329
Configured Users: 368640
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: c:\rtelogs\log09E.log
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

Name: FSRTE09F
Description: 09F
Directory: c:\rtelogs\log09F.log
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

Name: FSRTE10A
Description: 10A
Directory: c:\rtelogs\log10A.log
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

Name: FSRTE10B
Description: 10B
Directory: c:\rtelogs\log10B.log
Machine: FSRTE10
Parameter Set: PARAM2
Index: 165000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE10B445560671
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
Machine: FSRTE10
Parameter Set: PARAM2
Index: 168000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE10C445560671
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
Machine: FSRTE10
Parameter Set: PARAM2
Index: 171000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE10D445560671
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
Machine: FSRTE10
Parameter Set: PARAM2
Index: 174000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE10E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE10F
Description: 10F
Directory: c:\rtelogs\log10F.log
Machine: FSRTE10
Parameter Set: PARAM2
Index: 177000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE10F445560671
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
Machine: FSRTE11
Parameter Set: PARAM2
Index: 180000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE11A445560671
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
Machine: FSRTE11
Parameter Set: PARAM2
Index: 183000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE11B445560671
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
Machine: FSRTE11
Parameter Set: PARAM2
Index: 186000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE11C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
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: FSRTE11E
Description: 11E
Directory: c:\rtelogs\log11E.log
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: FSRTE11F
Description: 11F
Directory: c:\rtelogs\log11F.log
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: FSRTE12A
Description: 12A
Directory: c:\rtelogs\log12A.log

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: FSRTE12B
Description: 12B
Directory: c:\rtelogs\log12B.log
Machine: FSRTE12
Parameter Set: PARAM2
Index: 201000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE12B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE12C
Description: 12C
Directory: c:\rtelogs\log12C.log
Machine: FSRTE12
Parameter Set: PARAM2
Index: 204000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE12C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE12D
Description: 12D
Directory: c:\rtelogs\log12D.log
Machine: FSRTE12

Parameter Set: PARAM2
Index: 207000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE12D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE12E
Description: 12E
Directory: c:\rtelogs\log12E.log
Machine: FSRTE12
Parameter Set: PARAM2
Index: 210000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE12E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE12F
Description: 12F
Directory: c:\rtelogs\log12F.log
Machine: FSRTE12
Parameter Set: PARAM2
Index: 213000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE12F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE13A
Description: 13A
Directory: c:\rtelogs\log13A.log
Machine: FSRTE13
Parameter Set: PARAM2

Index: 216000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE13A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE13B
Description: 13B
Directory: c:\rtelogs\log13B.log
Machine: FSRTE13
Parameter Set: PARAM2
Index: 219000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE13B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE13C
Description: 13C
Directory: c:\rtelogs\log13C.log
Machine: FSRTE13
Parameter Set: PARAM2
Index: 222000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE13C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE13D
Description: 13D
Directory: c:\rtelogs\log13D.log
Machine: FSRTE13
Parameter Set: PARAM2
Index: 225000000

Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE13D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE13E
Description: 13E
Directory: c:\rtelogs\log13E.log
Machine: FSRTE13
Parameter Set: PARAM2
Index: 228000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE13E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE13F
Description: 13F
Directory: c:\rtelogs\log13F.log
Machine: FSRTE13
Parameter Set: PARAM2
Index: 231000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE13F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE14A
Description: 14A
Directory: c:\rtelogs\log14A.log
Machine: FSRTE14
Parameter Set: PARAM2
Index: 234000000
Seed: 46329

Configured Users: 368640
Pipe Name: FSRTE14A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE14B
Description: 14B
Directory: c:\rtelogs\log14B.log
Machine: FSRTE14
Parameter Set: PARAM2
Index: 237000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE14B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE14C
Description: 14C
Directory: c:\rtelogs\log14C.log
Machine: FSRTE14
Parameter Set: PARAM2
Index: 240000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE14C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE14D
Description: 14D
Directory: c:\rtelogs\log14D.log
Machine: FSRTE14
Parameter Set: PARAM2
Index: 243000000
Seed: 46329
Configured Users: 368640

Pipe Name: FSRTE14D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE14E
Description: 14E
Directory: c:\rtelogs\log14E.log
Machine: FSRTE14
Parameter Set: PARAM2
Index: 246000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE14E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE14F
Description: 14F
Directory: c:\rtelogs\log14F.log
Machine: FSRTE14
Parameter Set: PARAM2
Index: 249000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE14F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE15A
Description: 15A
Directory: c:\rtelogs\log15A.log
Machine: FSRTE15
Parameter Set: PARAM2
Index: 252000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE15A445560671

Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE15B
Description: 15B
Directory: c:\rtelogs\log15B.log
Machine: FSRTE15
Parameter Set: PARAM2
Index: 255000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE15B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE15C
Description: 15C
Directory: c:\rtelogs\log15C.log
Machine: FSRTE15
Parameter Set: PARAM2
Index: 258000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE15C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE15D
Description: 15D
Directory: c:\rtelogs\log15D.log
Machine: FSRTE15
Parameter Set: PARAM2
Index: 261000000
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

Name: FSRTE15E
Description: 15E
Directory: c:\rtelogs\log15E.log
Machine: FSRTE15
Parameter Set: PARAM2
Index: 264000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE15E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE15F
Description: 15F
Directory: c:\rtelogs\log15F.log
Machine: FSRTE15
Parameter Set: PARAM2
Index: 267000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE15F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE16A
Description: 16A
Directory: c:\rtelogs\log16A.log
Machine: FSRTE16
Parameter Set: PARAM2
Index: 270000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE16A445560671
Connect Rate: 160
Start Rate: 0

Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE16B
Description: 16B
Directory: c:\rtelogs\log16B.log
Machine: FSRTE16
Parameter Set: PARAM2
Index: 273000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE16B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE16C
Description: 16C
Directory: c:\rtelogs\log16C.log
Machine: FSRTE16
Parameter Set: PARAM2
Index: 276000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE16C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE16D
Description: 16D
Directory: c:\rtelogs\log16D.log
Machine: FSRTE16
Parameter Set: PARAM2
Index: 279000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE16D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000

Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE16E
Description: 16E
Directory: c:\rtelogs\log16E.log
Machine: FSRTE16
Parameter Set: PARAM2
Index: 282000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE16E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE16F
Description: 16F
Directory: c:\rtelogs\log16F.log
Machine: FSRTE16
Parameter Set: PARAM2
Index: 285000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE16F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE17A
Description: 17A
Directory: c:\rtelogs\log17A.log
Machine: FSRTE17
Parameter Set: PARAM2
Index: 288000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE17A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 0

Name: FSRTE17B
Description: 17B
Directory: c:\rtelogs\log17B.log
Machine: FSRTE17
Parameter Set: PARAM2
Index: 291000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE17B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE17C
Description: 17C
Directory: c:\rtelogs\log17C.log
Machine: FSRTE17
Parameter Set: PARAM2
Index: 294000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE17C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE17D
Description: 17D
Directory: c:\rtelogs\log17D.log
Machine: FSRTE17
Parameter Set: PARAM2
Index: 297000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE17D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257

CPU: 1

Name: FSRTE17E
Description: 17E
Directory: c:\rtelogs\log17E.log
Machine: FSRTE17
Parameter Set: PARAM2
Index: 300000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE17E445560671
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: 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: 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: 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
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: 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: 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: FSRTE18F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE19A
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: 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: 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

Name: FSRTE19E
Description: 19E

Directory: c:\rtelogs\log19E.log
Machine: FSRTE19
Parameter Set: PARAM2
Index: 336000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE19E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE19F
Description: 19F
Directory: c:\rtelogs\log19F.log
Machine: FSRTE19
Parameter Set: PARAM2
Index: 339000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE19F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE20A
Description: 20A
Directory: c:\rtelogs\log20A.log
Machine: FSRTE20
Parameter Set: PARAM2
Index: 342000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE20A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE20B
Description: 20B
Directory: c:\rtelogs\log20B.log

Machine: FSRTE20
Parameter Set: PARAM2
Index: 345000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE20B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE20C
Description: 20C
Directory: c:\rtelogs\log20C.log
Machine: FSRTE20
Parameter Set: PARAM2
Index: 348000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE20C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE20D
Description: 20D
Directory: c:\rtelogs\log20D.log
Machine: FSRTE20
Parameter Set: PARAM2
Index: 351000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE20D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE20E
Description: 20E
Directory: c:\rtelogs\log20E.log
Machine: FSRTE20

Parameter Set: PARAM2
Index: 354000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE20E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE20F
Description: 20F
Directory: c:\rtelogs\log20F.log
Machine: FSRTE20
Parameter Set: PARAM2
Index: 357000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE20F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE21A
Description: 21A
Directory: c:\rtelogs\log21A.log
Machine: FSRTE21
Parameter Set: PARAM2
Index: 360000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE21A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE21B
Description: 21B
Directory: c:\rtelogs\log21B.log
Machine: FSRTE21
Parameter Set: PARAM2

Index: 363000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE21B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE21C
Description: 21C
Directory: c:\rtelogs\log21C.log
Machine: FSRTE21
Parameter Set: PARAM2
Index: 366000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE21C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE21D
Description: 21D
Directory: c:\rtelogs\log21D.log
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: c:\rtelogs\log21E.log
Machine: FSRTE21
Parameter Set: PARAM2
Index: 372000000

Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE21E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE21F
Description: 21F
Directory: c:\rtelogs\log21F.log
Machine: FSRTE21
Parameter Set: PARAM2
Index: 375000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE21F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE22A
Description: 22A
Directory: c:\rtelogs\log22A.log
Machine: FSRTE22
Parameter Set: PARAM2
Index: 378000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE22A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
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
Configured Users: 368640
Pipe Name: FSRTE23C445560671
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
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 1

Name: FSRTE25C
Description: 25C
Directory: c:\rtelogs\log25C.log
Machine: FSRTE25
Parameter Set: PARAM2
Index: 438000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE25C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE25D
Description: 25D
Directory: c:\rtelogs\log25D.log
Machine: FSRTE25
Parameter Set: PARAM2
Index: 441000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE25D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE25E
Description: 25E
Directory: c:\rtelogs\log25E.log
Machine: FSRTE25
Parameter Set: PARAM2
Index: 444000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE25E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257

CPU: 0

Name: FSRTE25F
Description: 25F
Directory: c:\rtelogs\log25F.log
Machine: FSRTE25
Parameter Set: PARAM2
Index: 447000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE25F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE26A
Description: 26A
Directory: c:\rtelogs\log26A.log
Machine: FSRTE26
Parameter Set: PARAM2
Index: 450000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE26A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE26B
Description: 26B
Directory: c:\rtelogs\log26B.log
Machine: FSRTE26
Parameter Set: PARAM2
Index: 453000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE26B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE26C
Description: 26C
Directory: c:\rtelogs\log26C.log
Machine: FSRTE26
Parameter Set: PARAM2
Index: 456000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE26C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE26D
Description: 26D
Directory: c:\rtelogs\log26D.log
Machine: FSRTE26
Parameter Set: PARAM2
Index: 459000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE26D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE26E
Description: 26E
Directory: c:\rtelogs\log26E.log
Machine: FSRTE26
Parameter Set: PARAM2
Index: 462000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE26E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE26F
Description: 26F
Directory: c:\rtelogs\log26F.log
Machine: FSRTE26
Parameter Set: PARAM2
Index: 465000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE26F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE27A
Description: 27A
Directory: c:\rtelogs\log27A.log
Machine: FSRTE27
Parameter Set: PARAM2
Index: 468000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE27A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE27B
Description: 27B
Directory: c:\rtelogs\log27B.log
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

Name: FSRTE27C

Description: 27C
Directory: c:\rtelogs\log27C.log
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

Name: FSRTE27D
Description: 27D
Directory: c:\rtelogs\log27D.log
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

Name: FSRTE27E
Description: 27E
Directory: c:\rtelogs\log27E.log
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
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE27F
Description: 27F

Directory: c:\rtelogs\log27F.log
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

Name: FSRTE28A
Description: 28A
Directory: c:\rtelogs\log28A.log
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

Name: FSRTE28B
Description: 28B
Directory: c:\rtelogs\log28B.log
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

Name: FSRTE28C
Description: 28C
Directory: c:\rtelogs\log28C.log

Machine: FSRTE28
Parameter Set: PARAM2
Index: 492000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE28C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE28D
Description: 28D
Directory: c:\rtelogs\log28D.log
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

Name: FSRTE28E
Description: 28E
Directory: c:\rtelogs\log28E.log
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

Name: FSRTE28F
Description: 28F
Directory: c:\rtelogs\log28F.log
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

Name: FSRTE29A
Description: 29A
Directory: c:\rtelogs\log29A.log
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
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE31A
Description: 31A
Directory: c:\rtelogs\log31A.log
Machine: FSRTE31
Parameter Set: PARAM2
Index: 540000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE31A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE31B
Description: 31B
Directory: c:\rtelogs\log31B.log
Machine: FSRTE31
Parameter Set: PARAM2
Index: 543000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE31B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE31C
Description: 31C
Directory: c:\rtelogs\log31C.log
Machine: FSRTE31
Parameter Set: PARAM2
Index: 546000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE31C445560671

Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE31D
Description: 31D
Directory: c:\rtelogs\log31D.log
Machine: FSRTE31
Parameter Set: PARAM2
Index: 549000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE31D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE31E
Description: 31E
Directory: c:\rtelogs\log31E.log
Machine: FSRTE31
Parameter Set: PARAM2
Index: 552000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE31E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE31F
Description: 31F
Directory: c:\rtelogs\log31F.log
Machine: FSRTE31
Parameter Set: PARAM2
Index: 555000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE31F445560671
Connect Rate: 160

Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE32A
Description: 32A
Directory: c:\rtelogs\log32A.log
Machine: FSRTE32
Parameter Set: PARAM2
Index: 558000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE32A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE32B
Description: 32B
Directory: c:\rtelogs\log32B.log
Machine: FSRTE32
Parameter Set: PARAM2
Index: 561000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE32B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE32C
Description: 32C
Directory: c:\rtelogs\log32C.log
Machine: FSRTE32
Parameter Set: PARAM2
Index: 564000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE32C445560671
Connect Rate: 160
Start Rate: 0

Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE32D
Description: 32D
Directory: c:\rtelogs\log32D.log
Machine: FSRTE32
Parameter Set: PARAM2
Index: 567000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE32D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE32E
Description: 32E
Directory: c:\rtelogs\log32E.log
Machine: FSRTE32
Parameter Set: PARAM2
Index: 570000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE32E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE32F
Description: 32F
Directory: c:\rtelogs\log32F.log
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
Parameter Set: PARAM2
Index: 606000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE34E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE34F
Description: 34F
Directory: c:\rtelogs\log34F.log
Machine: FSRTE34
Parameter Set: PARAM2
Index: 609000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE34F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE35A
Description: 35A
Directory: c:\rtelogs\log35A.log
Machine: FSRTE35
Parameter Set: PARAM2
Index: 612000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE35A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE35B
Description: 35B
Directory: c:\rtelogs\log35B.log
Machine: FSRTE35
Parameter Set: PARAM2
Index: 615000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE35B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE35C
Description: 35C
Directory: c:\rtelogs\log35C.log
Machine: FSRTE35
Parameter Set: PARAM2
Index: 618000000
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

Name: FSRTE35D

Description: 35D
Directory: c:\rtelogs\log35D.log
Machine: FSRTE35
Parameter Set: PARAM2
Index: 621000000
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

Name: FSRTE35E
Description: 35E
Directory: c:\rtelogs\log35E.log
Machine: FSRTE35
Parameter Set: PARAM2
Index: 624000000
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

Name: FSRTE35F
Description: 35F
Directory: c:\rtelogs\log35F.log
Machine: FSRTE35
Parameter Set: PARAM2
Index: 627000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE35F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE36A
Description: 36A

Directory: c:\rtelogs\log36A.log
Machine: FSRTE36
Parameter Set: PARAM2
Index: 630000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE36A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE36B
Description: 36B
Directory: c:\rtelogs\log36B.log
Machine: FSRTE36
Parameter Set: PARAM2
Index: 633000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE36B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE36C
Description: 36C
Directory: c:\rtelogs\log36C.log
Machine: FSRTE36
Parameter Set: PARAM2
Index: 636000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE36C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE36D
Description: 36D
Directory: c:\rtelogs\log36D.log

Machine: FSRTE36
Parameter Set: PARAM2
Index: 639000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE36D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE36E
Description: 36E
Directory: c:\rtelogs\log36E.log
Machine: FSRTE36
Parameter Set: PARAM2
Index: 642000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE36E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE36F
Description: 36F
Directory: c:\rtelogs\log36F.log
Machine: FSRTE36
Parameter Set: PARAM2
Index: 645000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE36F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE37A
Description: 37A
Directory: c:\rtelogs\log37A.log
Machine: FSRTE37

Parameter Set: PARAM2
Index: 648000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE37A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE37B
Description: 37B
Directory: c:\rtelogs\log37B.log
Machine: FSRTE37
Parameter Set: PARAM2
Index: 651000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE37B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE37C
Description: 37C
Directory: c:\rtelogs\log37C.log
Machine: FSRTE37
Parameter Set: PARAM2
Index: 654000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE37C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE37D
Description: 37D
Directory: c:\rtelogs\log37D.log
Machine: FSRTE37
Parameter Set: PARAM2

Index: 657000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE37D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE37E
Description: 37E
Directory: c:\rtelogs\log37E.log
Machine: FSRTE37
Parameter Set: PARAM2
Index: 660000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE37E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE37F
Description: 37F
Directory: c:\rtelogs\log37F.log
Machine: FSRTE37
Parameter Set: PARAM2
Index: 663000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE37F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE38A
Description: 38A
Directory: c:\rtelogs\log38A.log
Machine: FSRTE38
Parameter Set: PARAM2
Index: 666000000

Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE38A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE38B
Description: 38B
Directory: c:\rtelogs\log38B.log
Machine: FSRTE38
Parameter Set: PARAM2
Index: 669000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE38B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE38C
Description: 38C
Directory: c:\rtelogs\log38C.log
Machine: FSRTE38
Parameter Set: PARAM2
Index: 672000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE38C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE38D
Description: 38D
Directory: c:\rtelogs\log38D.log
Machine: FSRTE38
Parameter Set: PARAM2
Index: 675000000
Seed: 46329

Configured Users: 368640
Pipe Name: FSRTE38D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE38E
Description: 38E
Directory: c:\rtelogs\log38E.log
Machine: FSRTE38
Parameter Set: PARAM2
Index: 678000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE38E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE38F
Description: 38F
Directory: c:\rtelogs\log38F.log
Machine: FSRTE38
Parameter Set: PARAM2
Index: 681000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE38F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE39A
Description: 39A
Directory: c:\rtelogs\log39A.log
Machine: FSRTE39
Parameter Set: PARAM2
Index: 684000000
Seed: 46329
Configured Users: 368640

Pipe Name: FSRTE39A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE39B
Description: 39B
Directory: c:\rtelogs\log39B.log
Machine: FSRTE39
Parameter Set: PARAM2
Index: 687000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE39B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE39C
Description: 39C
Directory: c:\rtelogs\log39C.log
Machine: FSRTE39
Parameter Set: PARAM2
Index: 690000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE39C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE39D
Description: 39D
Directory: c:\rtelogs\log39D.log
Machine: FSRTE39
Parameter Set: PARAM2
Index: 693000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE39D445560671

Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE39E
Description: 39E
Directory: c:\rtelogs\log39E.log
Machine: FSRTE39
Parameter Set: PARAM2
Index: 696000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE39E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE39F
Description: 39F
Directory: c:\rtelogs\log39F.log
Machine: FSRTE39
Parameter Set: PARAM2
Index: 699000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE39F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE40A
Description: 40A
Directory: c:\rtelogs\log40A.log
Machine: FSRTE40
Parameter Set: PARAM2
Index: 702000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE40A445560671
Connect Rate: 160

Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE40B
Description: 40B
Directory: c:\rtelogs\log40B.log
Machine: FSRTE40
Parameter Set: PARAM2
Index: 705000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE40B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE40C
Description: 40C
Directory: c:\rtelogs\log40C.log
Machine: FSRTE40
Parameter Set: PARAM2
Index: 708000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE40C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE40D
Description: 40D
Directory: c:\rtelogs\log40D.log
Machine: FSRTE40
Parameter Set: PARAM2
Index: 711000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE40D445560671
Connect Rate: 160
Start Rate: 0

Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE40E
Description: 40E
Directory: c:\rtelogs\log40E.log
Machine: FSRTE40
Parameter Set: PARAM2
Index: 714000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE40E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE40F
Description: 40F
Directory: c:\rtelogs\log40F.log
Machine: FSRTE40
Parameter Set: PARAM2
Index: 717000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE40F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE41A
Description: 41A
Directory: c:\rtelogs\log41A.log
Machine: FSRTE41
Parameter Set: PARAM2
Index: 720000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE41A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000

Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE41B
Description: 41B
Directory: c:\rtelogs\log41B.log
Machine: FSRTE41
Parameter Set: PARAM2
Index: 723000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE41B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE41C
Description: 41C
Directory: c:\rtelogs\log41C.log
Machine: FSRTE41
Parameter Set: PARAM2
Index: 726000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE41C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE41D
Description: 41D
Directory: c:\rtelogs\log41D.log
Machine: FSRTE41
Parameter Set: PARAM2
Index: 729000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE41D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 1

Name: FSRTE41E
Description: 41E
Directory: c:\rtelogs\log41E.log
Machine: FSRTE41
Parameter Set: PARAM2
Index: 732000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE41E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE41F
Description: 41F
Directory: c:\rtelogs\log41F.log
Machine: FSRTE41
Parameter Set: PARAM2
Index: 735000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE41F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE42A
Description: 42A
Directory: c:\rtelogs\log42A.log
Machine: FSRTE42
Parameter Set: PARAM2
Index: 738000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE42A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257

CPU: 0

Name: FSRTE42B
Description: 42B
Directory: c:\rtelogs\log42B.log
Machine: FSRTE42
Parameter Set: PARAM2
Index: 741000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE42B445560671
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: 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: 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: 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
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: FSRTE43A445560671
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: 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: FSRTE43C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE43D
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: 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: 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: FSRTE44A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE44B
Description: 44B

Directory: c:\rtelogs\log44B.log
Machine: FSRTE44
Parameter Set: PARAM2
Index: 777000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE44B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE44C
Description: 44C
Directory: c:\rtelogs\log44C.log
Machine: FSRTE44
Parameter Set: PARAM2
Index: 780000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE44C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE44D
Description: 44D
Directory: c:\rtelogs\log44D.log
Machine: FSRTE44
Parameter Set: PARAM2
Index: 783000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE44D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE44E
Description: 44E
Directory: c:\rtelogs\log44E.log

Machine: FSRTE44
Parameter Set: PARAM2
Index: 786000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE44E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE44F
Description: 44F
Directory: c:\rtelogs\log44F.log
Machine: FSRTE44
Parameter Set: PARAM2
Index: 789000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE44F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE45A
Description: 45A
Directory: c:\rtelogs\log45A.log
Machine: FSRTE45
Parameter Set: PARAM2
Index: 792000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE45A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE45B
Description: 45B
Directory: c:\rtelogs\log45B.log
Machine: FSRTE45

Parameter Set: PARAM2
Index: 795000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE45B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE45C
Description: 45C
Directory: c:\rtelogs\log45C.log
Machine: FSRTE45
Parameter Set: PARAM2
Index: 798000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE45C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE45D
Description: 45D
Directory: c:\rtelogs\log45D.log
Machine: FSRTE45
Parameter Set: PARAM2
Index: 801000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE45D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE45E
Description: 45E
Directory: c:\rtelogs\log45E.log
Machine: FSRTE45
Parameter Set: PARAM2

Index: 804000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE45E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE45F
Description: 45F
Directory: c:\rtelogs\log45F.log
Machine: FSRTE45
Parameter Set: PARAM2
Index: 807000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE45F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE46A
Description: 46A
Directory: c:\rtelogs\log46A.log
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: 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
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
Configured Users: 368640
Pipe Name: FSRTE47F445560671
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: 846000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE48A445560671
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: 849000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE48B445560671
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: 852000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE48C445560671
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: 855000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE48D445560671
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
Machine: FSRTE48
Parameter Set: PARAM2
Index: 858000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE48E445560671
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: FSRTE48
Parameter Set: PARAM2
Index: 861000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE48F445560671
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: 864000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE49A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE49B
Description: 49B
Directory: c:\rtelogs\log49B.log
Machine: FSRTE49
Parameter Set: PARAM2
Index: 867000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE49B445560671
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
Machine: FSRTE49
Parameter Set: PARAM2
Index: 870000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE49C445560671
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
Machine: FSRTE49
Parameter Set: PARAM2
Index: 873000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE49D445560671
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: FSRTE49E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 0

Name: FSRTE49F
Description: 49F
Directory: c:\rtelogs\log49F.log
Machine: FSRTE49
Parameter Set: PARAM2
Index: 879000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE49F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE50A
Description: 50A
Directory: c:\rtelogs\log50A.log
Machine: FSRTE50
Parameter Set: PARAM2
Index: 882000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE50A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE50B
Description: 50B
Directory: c:\rtelogs\log50B.log
Machine: FSRTE50
Parameter Set: PARAM2
Index: 885000000
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

Name: FSRTE50C
Description: 50C
Directory: c:\rtelogs\log50C.log
Machine: FSRTE50
Parameter Set: PARAM2
Index: 888000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE50C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE50D
Description: 50D
Directory: c:\rtelogs\log50D.log
Machine: FSRTE50
Parameter Set: PARAM2
Index: 891000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE50D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE50E
Description: 50E
Directory: c:\rtelogs\log50E.log
Machine: FSRTE50
Parameter Set: PARAM2
Index: 894000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE50E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE50F
Description: 50F
Directory: c:\rtelogs\log50F.log
Machine: FSRTE50
Parameter Set: PARAM2
Index: 897000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE50F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE51A
Description: 51A
Directory: c:\rtelogs\log51A.log
Machine: FSRTE51
Parameter Set: PARAM2
Index: 900000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE51A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE51B
Description: 51B
Directory: c:\rtelogs\log51B.log
Machine: FSRTE51
Parameter Set: PARAM2
Index: 903000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE51B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE51C
Description: 51C
Directory: c:\rtelogs\log51C.log
Machine: FSRTE51
Parameter Set: PARAM2
Index: 906000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE51C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE51D
Description: 51D
Directory: c:\rtelogs\log51D.log
Machine: FSRTE51
Parameter Set: PARAM2
Index: 909000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE51D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE51E
Description: 51E
Directory: c:\rtelogs\log51E.log
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\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\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\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: 1

Name: FSRTE52C
Description: 52C

Directory: c:\rtelogs\log52C.log
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\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\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\log52F.log

Machine: FSRTE52
Parameter Set: PARAM2
Index: 933000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE52F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE53A
Description: 53A
Directory: c:\rtelogs\log53A.log
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\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\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\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
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE55D
Description: 55D
Directory: c:\rtelogs\log55D.log
Machine: FSRTE55
Parameter Set: PARAM2
Index: 981000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE55D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE55E
Description: 55E
Directory: c:\rtelogs\log55E.log
Machine: FSRTE55
Parameter Set: PARAM2
Index: 984000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE55E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE55F
Description: 55F
Directory: c:\rtelogs\log55F.log
Machine: FSRTE55
Parameter Set: PARAM2
Index: 987000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE55F445560671

Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE56A
Description: 56A
Directory: c:\rtelogs\log56A.log
Machine: FSRTE56
Parameter Set: PARAM2
Index: 990000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE56A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE56B
Description: 56B
Directory: c:\rtelogs\log56B.log
Machine: FSRTE56
Parameter Set: PARAM2
Index: 993000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE56B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE56C
Description: 56C
Directory: c:\rtelogs\log56C.log
Machine: FSRTE56
Parameter Set: PARAM2
Index: 996000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE56C445560671
Connect Rate: 160

Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE56D
Description: 56D
Directory: c:\rtelogs\log56D.log
Machine: FSRTE56
Parameter Set: PARAM2
Index: 999000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE56D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE56E
Description: 56E
Directory: c:\rtelogs\log56E.log
Machine: FSRTE56
Parameter Set: PARAM2
Index: 1002000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE56E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE56F
Description: 56F
Directory: c:\rtelogs\log56F.log
Machine: FSRTE56
Parameter Set: PARAM2
Index: 1005000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE56F445560671
Connect Rate: 160
Start Rate: 0

Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE57A
Description: 57A
Directory: c:\rtelogs\log57A.log
Machine: FSRTE57
Parameter Set: PARAM2
Index: 1008000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE57A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE57B
Description: 57B
Directory: c:\rtelogs\log57B.log
Machine: FSRTE57
Parameter Set: PARAM2
Index: 1011000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE57B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE57C
Description: 57C
Directory: c:\rtelogs\log57C.log
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

Name: FSRTE57D
Description: 57D
Directory: c:\rtelogs\log57D.log
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

Name: FSRTE57E
Description: 57E
Directory: c:\rtelogs\log57E.log
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

Name: FSRTE57F
Description: 57F
Directory: c:\rtelogs\log57F.log
Machine: FSRTE57
Parameter Set: PARAM2
Index: 1023000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE57F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 1

Name: FSRTE58A
Description: 58A
Directory: c:\rtelogs\log58A.log
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

Name: FSRTE58B
Description: 58B
Directory: c:\rtelogs\log58B.log
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

Name: FSRTE58C
Description: 58C
Directory: c:\rtelogs\log58C.log
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

Name: FSRTE58D
Description: 58D
Directory: c:\rtelogs\log58D.log
Machine: FSRTE58
Parameter Set: PARAM2
Index: 1035000000
Seed: 46329
Configured Users: 368640
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: c:\rtelogs\log58E.log
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

Name: FSRTE58F
Description: 58F
Directory: c:\rtelogs\log58F.log
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

Name: FSRTE59A
Description: 59A
Directory: c:\rtelogs\log59A.log
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

Name: FSRTE59B
Description: 59B
Directory: c:\rtelogs\log59B.log
Machine: FSRTE59
Parameter Set: PARAM2
Index: 1047000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE59B445560671
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
Machine: FSRTE59
Parameter Set: PARAM2
Index: 1050000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE59C445560671
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
Machine: FSRTE59
Parameter Set: PARAM2
Index: 1053000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE59D445560671
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
Machine: FSRTE59
Parameter Set: PARAM2
Index: 1056000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE59E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE59F
Description: 59F
Directory: c:\rtelogs\log59F.log
Machine: FSRTE59
Parameter Set: PARAM2
Index: 1059000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE59F445560671
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
Machine: FSRTE60
Parameter Set: PARAM2
Index: 1062000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE60A445560671
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
Machine: FSRTE60
Parameter Set: PARAM2
Index: 1065000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE60B445560671
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
Machine: FSRTE60
Parameter Set: PARAM2
Index: 1068000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE60C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
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: FSRTE60E
Description: 60E
Directory: c:\rtelogs\log60E.log
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: FSRTE60F
Description: 60F
Directory: c:\rtelogs\log60F.log
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: FSRTE61A
Description: 61A
Directory: c:\rtelogs\log61A.log

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: FSRTE61B
Description: 61B
Directory: c:\rtelogs\log61B.log
Machine: FSRTE61
Parameter Set: PARAM2
Index: 1083000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE61B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE61C
Description: 61C
Directory: c:\rtelogs\log61C.log
Machine: FSRTE61
Parameter Set: PARAM2
Index: 1086000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE61C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE61D
Description: 61D
Directory: c:\rtelogs\log61D.log
Machine: FSRTE61

Parameter Set: PARAM2
Index: 1089000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE61D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE61E
Description: 61E
Directory: c:\rtelogs\log61E.log
Machine: FSRTE61
Parameter Set: PARAM2
Index: 1092000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE61E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE61F
Description: 61F
Directory: c:\rtelogs\log61F.log
Machine: FSRTE61
Parameter Set: PARAM2
Index: 1095000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE61F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE62A
Description: 62A
Directory: c:\rtelogs\log62A.log
Machine: FSRTE62
Parameter Set: PARAM2

Index: 1098000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE62A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE62B
Description: 62B
Directory: c:\rtelogs\log62B.log
Machine: FSRTE62
Parameter Set: PARAM2
Index: 1101000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE62B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE62C
Description: 62C
Directory: c:\rtelogs\log62C.log
Machine: FSRTE62
Parameter Set: PARAM2
Index: 1104000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE62C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE62D
Description: 62D
Directory: c:\rtelogs\log62D.log
Machine: FSRTE62
Parameter Set: PARAM2
Index: 1107000000

Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE62D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE62E
Description: 62E
Directory: c:\rtelogs\log62E.log
Machine: FSRTE62
Parameter Set: PARAM2
Index: 1110000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE62E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE62F
Description: 62F
Directory: c:\rtelogs\log62F.log
Machine: FSRTE62
Parameter Set: PARAM2
Index: 1113000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE62F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE63A
Description: 63A
Directory: c:\rtelogs\log63A.log
Machine: FSRTE63
Parameter Set: PARAM2
Index: 1116000000
Seed: 46329

Configured Users: 368640
Pipe Name: FSRTE63A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE63B
Description: 63B
Directory: c:\rtelogs\log63B.log
Machine: FSRTE63
Parameter Set: PARAM2
Index: 1119000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE63B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE63C
Description: 63C
Directory: c:\rtelogs\log63C.log
Machine: FSRTE63
Parameter Set: PARAM2
Index: 1122000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE63C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE63D
Description: 63D
Directory: c:\rtelogs\log63D.log
Machine: FSRTE63
Parameter Set: PARAM2
Index: 1125000000
Seed: 46329
Configured Users: 368640

Pipe Name: FSRTE63D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE63E
Description: 63E
Directory: c:\rtelogs\log63E.log
Machine: FSRTE63
Parameter Set: PARAM2
Index: 1128000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE63E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE63F
Description: 63F
Directory: c:\rtelogs\log63F.log
Machine: FSRTE63
Parameter Set: PARAM2
Index: 1131000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE63F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE64A
Description: 64A
Directory: c:\rtelogs\log64A.log
Machine: FSRTE64
Parameter Set: PARAM2
Index: 1134000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE64A445560671

Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE64B
Description: 64B
Directory: c:\rtelogs\log64B.log
Machine: FSRTE64
Parameter Set: PARAM2
Index: 1137000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE64B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE64C
Description: 64C
Directory: c:\rtelogs\log64C.log
Machine: FSRTE64
Parameter Set: PARAM2
Index: 1140000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE64C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE64D
Description: 64D
Directory: c:\rtelogs\log64D.log
Machine: FSRTE64
Parameter Set: PARAM2
Index: 1143000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE64D445560671
Connect Rate: 160

Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE64E
Description: 64E
Directory: c:\rtelogs\log64E.log
Machine: FSRTE64
Parameter Set: PARAM2
Index: 1146000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE64E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE64F
Description: 64F
Directory: c:\rtelogs\log64F.log
Machine: FSRTE64
Parameter Set: PARAM2
Index: 1149000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE64F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE65A
Description: 65A
Directory: c:\rtelogs\log65A.log
Machine: FSRTE65
Parameter Set: PARAM2
Index: 1152000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE65A445560671
Connect Rate: 160
Start Rate: 0

Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE65B
Description: 65B
Directory: c:\rtelogs\log65B.log
Machine: FSRTE65
Parameter Set: PARAM2
Index: 1155000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE65B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE65C
Description: 65C
Directory: c:\rtelogs\log65C.log
Machine: FSRTE65
Parameter Set: PARAM2
Index: 1158000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE65C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE65D
Description: 65D
Directory: c:\rtelogs\log65D.log
Machine: FSRTE65
Parameter Set: PARAM2
Index: 1161000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE65D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000

Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE65E
Description: 65E
Directory: c:\rtelogs\log65E.log
Machine: FSRTE65
Parameter Set: PARAM2
Index: 1164000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE65E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE65F
Description: 65F
Directory: c:\rtelogs\log65F.log
Machine: FSRTE65
Parameter Set: PARAM2
Index: 1167000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE65F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE66A
Description: 66A
Directory: c:\rtelogs\log66A.log
Machine: FSRTE66
Parameter Set: PARAM2
Index: 1170000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE66A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 0

Name: FSRTE66B
Description: 66B
Directory: c:\rtelogs\log66B.log
Machine: FSRTE66
Parameter Set: PARAM2
Index: 1173000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE66B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE66C
Description: 66C
Directory: c:\rtelogs\log66C.log
Machine: FSRTE66
Parameter Set: PARAM2
Index: 1176000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE66C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE66D
Description: 66D
Directory: c:\rtelogs\log66D.log
Machine: FSRTE66
Parameter Set: PARAM2
Index: 1179000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE66D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257

CPU: 1

Name: FSRTE66E
Description: 66E
Directory: c:\rtelogs\log66E.log
Machine: FSRTE66
Parameter Set: PARAM2
Index: 1182000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE66E445560671
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
Machine: FSRTE66
Parameter Set: PARAM2
Index: 1185000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE66F445560671
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: 1188000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE67A445560671
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: 1191000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE67B445560671
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: 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
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: 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: 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
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
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
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
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

Name: FSRTE68E
Description: 68E

Directory: c:\rtelogs\log68E.log
Machine: FSRTE68
Parameter Set: PARAM2
Index: 1218000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE68E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE68F
Description: 68F
Directory: c:\rtelogs\log68F.log
Machine: FSRTE68
Parameter Set: PARAM2
Index: 1221000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE68F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE69A
Description: 69A
Directory: c:\rtelogs\log69A.log
Machine: FSRTE69
Parameter Set: PARAM2
Index: 1224000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE69A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE69B
Description: 69B
Directory: c:\rtelogs\log69B.log

Machine: FSRTE69
Parameter Set: PARAM2
Index: 1227000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE69B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE69C
Description: 69C
Directory: c:\rtelogs\log69C.log
Machine: FSRTE69
Parameter Set: PARAM2
Index: 1230000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE69C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE69D
Description: 69D
Directory: c:\rtelogs\log69D.log
Machine: FSRTE69
Parameter Set: PARAM2
Index: 1233000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE69D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE69E
Description: 69E
Directory: c:\rtelogs\log69E.log
Machine: FSRTE69

Parameter Set: PARAM2
Index: 1236000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE69E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE69F
Description: 69F
Directory: c:\rtelogs\log69F.log
Machine: FSRTE69
Parameter Set: PARAM2
Index: 1239000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE69F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE70A
Description: 70A
Directory: c:\rtelogs\log70A.log
Machine: FSRTE70
Parameter Set: PARAM2
Index: 1242000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE70A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE70B
Description: 70B
Directory: c:\rtelogs\log70B.log
Machine: FSRTE70
Parameter Set: PARAM2

Index: 1245000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE70B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE70C
Description: 70C
Directory: c:\rtelogs\log70C.log
Machine: FSRTE70
Parameter Set: PARAM2
Index: 1248000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE70C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE70D
Description: 70D
Directory: c:\rtelogs\log70D.log
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: 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
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
Configured Users: 368640
Pipe Name: FSRTE72C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE72D
Description: 72D
Directory: c:\rtelogs\log72D.log
Machine: FSRTE72
Parameter Set: PARAM2
Index: 1287000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE72D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE72E
Description: 72E
Directory: c:\rtelogs\log72E.log
Machine: FSRTE72
Parameter Set: PARAM2
Index: 1290000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE72E445560671
Connect Rate: 160

Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE72F
Description: 72F
Directory: c:\rtelogs\log72F.log
Machine: FSRTE72
Parameter Set: PARAM2
Index: 1293000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE72F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE73A
Description: 73A
Directory: c:\rtelogs\log73A.log
Machine: FSRTE73
Parameter Set: PARAM2
Index: 1296000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE73A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE73B
Description: 73B
Directory: c:\rtelogs\log73B.log
Machine: FSRTE73
Parameter Set: PARAM2
Index: 1299000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE73B445560671
Connect Rate: 160
Start Rate: 0

Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE73C
Description: 73C
Directory: c:\rtelogs\log73C.log
Machine: FSRTE73
Parameter Set: PARAM2
Index: 1302000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE73C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE73D
Description: 73D
Directory: c:\rtelogs\log73D.log
Machine: FSRTE73
Parameter Set: PARAM2
Index: 1305000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE73D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE73E
Description: 73E
Directory: c:\rtelogs\log73E.log
Machine: FSRTE73
Parameter Set: PARAM2
Index: 1308000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE73E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000

Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE73F
Description: 73F
Directory: c:\rtelogs\log73F.log
Machine: FSRTE73
Parameter Set: PARAM2
Index: 1311000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE73F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE74A
Description: 74A
Directory: c:\rtelogs\log74A.log
Machine: FSRTE74
Parameter Set: PARAM2
Index: 1314000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE74A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE74B
Description: 74B
Directory: c:\rtelogs\log74B.log
Machine: FSRTE74
Parameter Set: PARAM2
Index: 1317000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE74B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 1

Name: FSRTE74C
Description: 74C
Directory: c:\rtelogs\log74C.log
Machine: FSRTE74
Parameter Set: PARAM2
Index: 1320000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE74C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE74D
Description: 74D
Directory: c:\rtelogs\log74D.log
Machine: FSRTE74
Parameter Set: PARAM2
Index: 1323000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE74D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE74E
Description: 74E
Directory: c:\rtelogs\log74E.log
Machine: FSRTE74
Parameter Set: PARAM2
Index: 1326000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE74E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257

CPU: 0

Name: FSRTE74F
Description: 74F
Directory: c:\rtelogs\log74F.log
Machine: FSRTE74
Parameter Set: PARAM2
Index: 1329000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE74F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE75A
Description: 75A
Directory: c:\rtelogs\log75A.log
Machine: FSRTE75
Parameter Set: PARAM2
Index: 1332000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE75A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE75B
Description: 75B
Directory: c:\rtelogs\log75B.log
Machine: FSRTE75
Parameter Set: PARAM2
Index: 1335000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE75B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE75C
Description: 75C
Directory: c:\rtelogs\log75C.log
Machine: FSRTE75
Parameter Set: PARAM2
Index: 1338000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE75C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE75D
Description: 75D
Directory: c:\rtelogs\log75D.log
Machine: FSRTE75
Parameter Set: PARAM2
Index: 1341000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE75D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE75E
Description: 75E
Directory: c:\rtelogs\log75E.log
Machine: FSRTE75
Parameter Set: PARAM2
Index: 1344000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE75E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE75F
Description: 75F
Directory: c:\rtelogs\log75F.log
Machine: FSRTE75
Parameter Set: PARAM2
Index: 1347000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE75F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE76A
Description: 76A
Directory: c:\rtelogs\log76A.log
Machine: FSRTE76
Parameter Set: PARAM2
Index: 1350000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE76A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE76B
Description: 76B
Directory: c:\rtelogs\log76B.log
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

Name: FSRTE76C

Description: 76C
Directory: c:\rtelogs\log76C.log
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

Name: FSRTE76D
Description: 76D
Directory: c:\rtelogs\log76D.log
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

Name: FSRTE76E
Description: 76E
Directory: c:\rtelogs\log76E.log
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
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE76F
Description: 76F

Directory: c:\rtelogs\log76F.log
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

Name: FSRTE77A
Description: 77A
Directory: c:\rtelogs\log77A.log
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

Name: FSRTE77B
Description: 77B
Directory: c:\rtelogs\log77B.log
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

Name: FSRTE77C
Description: 77C
Directory: c:\rtelogs\log77C.log

Machine: FSRTE77
Parameter Set: PARAM2
Index: 1374000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE77C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE77D
Description: 77D
Directory: c:\rtelogs\log77D.log
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

Name: FSRTE77E
Description: 77E
Directory: c:\rtelogs\log77E.log
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

Name: FSRTE77F
Description: 77F
Directory: c:\rtelogs\log77F.log
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

Name: FSRTE78A
Description: 78A
Directory: c:\rtelogs\log78A.log
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
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE80A
Description: 80A
Directory: c:\rtelogs\log80A.log
Machine: FSRTE80
Parameter Set: PARAM2
Index: 1422000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE80A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE80B
Description: 80B
Directory: c:\rtelogs\log80B.log
Machine: FSRTE80
Parameter Set: PARAM2
Index: 1425000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE80B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE80C
Description: 80C
Directory: c:\rtelogs\log80C.log
Machine: FSRTE80
Parameter Set: PARAM2
Index: 1428000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE80C445560671

Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE80D
Description: 80D
Directory: c:\rtelogs\log80D.log
Machine: FSRTE80
Parameter Set: PARAM2
Index: 1431000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE80D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE80E
Description: 80E
Directory: c:\rtelogs\log80E.log
Machine: FSRTE80
Parameter Set: PARAM2
Index: 1434000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE80E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE80F
Description: 80F
Directory: c:\rtelogs\log80F.log
Machine: FSRTE80
Parameter Set: PARAM2
Index: 1437000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE80F445560671
Connect Rate: 160

Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE81A
Description: 81A
Directory: c:\rtelogs\log81A.log
Machine: FSRTE81
Parameter Set: PARAM2
Index: 1440000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE81A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE81B
Description: 81B
Directory: c:\rtelogs\log81B.log
Machine: FSRTE81
Parameter Set: PARAM2
Index: 1443000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE81B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE81C
Description: 81C
Directory: c:\rtelogs\log81C.log
Machine: FSRTE81
Parameter Set: PARAM2
Index: 1446000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE81C445560671
Connect Rate: 160
Start Rate: 0

Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE81D
Description: 81D
Directory: c:\rtelogs\log81D.log
Machine: FSRTE81
Parameter Set: PARAM2
Index: 1449000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE81D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE81E
Description: 81E
Directory: c:\rtelogs\log81E.log
Machine: FSRTE81
Parameter Set: PARAM2
Index: 1452000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE81E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE81F
Description: 81F
Directory: c:\rtelogs\log81F.log
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

Name: FSRTE82A
Description: 82A
Directory: c:\rtelogs\log82A.log
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

Name: FSRTE82B
Description: 82B
Directory: c:\rtelogs\log82B.log
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

Name: FSRTE82C
Description: 82C
Directory: c:\rtelogs\log82C.log
Machine: FSRTE82
Parameter Set: PARAM2
Index: 1464000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE82C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 0

Name: FSRTE82D
Description: 82D
Directory: c:\rtelogs\log82D.log
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

Name: FSRTE82E
Description: 82E
Directory: c:\rtelogs\log82E.log
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

Name: FSRTE82F
Description: 82F
Directory: c:\rtelogs\log82F.log
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

Name: FSRTE83A
Description: 83A
Directory: c:\rtelogs\log83A.log
Machine: FSRTE83
Parameter Set: PARAM2
Index: 1476000000
Seed: 46329
Configured Users: 368640
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: c:\rtelogs\log83B.log
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

Name: FSRTE83C
Description: 83C
Directory: c:\rtelogs\log83C.log
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

Name: FSRTE83D
Description: 83D
Directory: c:\rtelogs\log83D.log
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

Name: FSRTE83E
Description: 83E
Directory: c:\rtelogs\log83E.log
Machine: FSRTE83
Parameter Set: PARAM2
Index: 1488000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE83E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE83F
Description: 83F
Directory: c:\rtelogs\log83F.log
Machine: FSRTE83
Parameter Set: PARAM2
Index: 1491000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE83F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE84A
Description: 84A
Directory: c:\rtelogs\log84A.log
Machine: FSRTE84
Parameter Set: PARAM2
Index: 1494000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE84A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE84B
Description: 84B
Directory: c:\rtelogs\log84B.log
Machine: FSRTE84
Parameter Set: PARAM2
Index: 1497000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE84B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE84C
Description: 84C
Directory: c:\rtelogs\log84C.log
Machine: FSRTE84
Parameter Set: PARAM2
Index: 1500000000
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

Name: FSRTE84D

Description: 84D
Directory: c:\rtelogs\log84D.log
Machine: FSRTE84
Parameter Set: PARAM2
Index: 1503000000
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

Name: FSRTE84E
Description: 84E
Directory: c:\rtelogs\log84E.log
Machine: FSRTE84
Parameter Set: PARAM2
Index: 1506000000
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

Name: FSRTE84F
Description: 84F
Directory: c:\rtelogs\log84F.log
Machine: FSRTE84
Parameter Set: PARAM2
Index: 1509000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE84F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE85A
Description: 85A

Directory: c:\rtelogs\log85A.log
Machine: FSRTE85
Parameter Set: PARAM2
Index: 1512000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE85A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE85B
Description: 85B
Directory: c:\rtelogs\log85B.log
Machine: FSRTE85
Parameter Set: PARAM2
Index: 1515000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE85B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE85C
Description: 85C
Directory: c:\rtelogs\log85C.log
Machine: FSRTE85
Parameter Set: PARAM2
Index: 1518000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE85C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE85D
Description: 85D
Directory: c:\rtelogs\log85D.log

Machine: FSRTE85
Parameter Set: PARAM2
Index: 1521000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE85D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE85E
Description: 85E
Directory: c:\rtelogs\log85E.log
Machine: FSRTE85
Parameter Set: PARAM2
Index: 1524000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE85E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE85F
Description: 85F
Directory: c:\rtelogs\log85F.log
Machine: FSRTE85
Parameter Set: PARAM2
Index: 1527000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE85F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE86A
Description: 86A
Directory: c:\rtelogs\log86A.log
Machine: FSRTE86

Parameter Set: PARAM2
Index: 1530000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE86A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE86B
Description: 86B
Directory: c:\rtelogs\log86B.log
Machine: FSRTE86
Parameter Set: PARAM2
Index: 1533000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE86B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE86C
Description: 86C
Directory: c:\rtelogs\log86C.log
Machine: FSRTE86
Parameter Set: PARAM2
Index: 1536000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE86C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE86D
Description: 86D
Directory: c:\rtelogs\log86D.log
Machine: FSRTE86
Parameter Set: PARAM2

Index: 1539000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE86D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE86E
Description: 86E
Directory: c:\rtelogs\log86E.log
Machine: FSRTE86
Parameter Set: PARAM2
Index: 1542000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE86E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE86F
Description: 86F
Directory: c:\rtelogs\log86F.log
Machine: FSRTE86
Parameter Set: PARAM2
Index: 1545000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE86F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE87A
Description: 87A
Directory: c:\rtelogs\log87A.log
Machine: FSRTE87
Parameter Set: PARAM2
Index: 1548000000

Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE87A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE87B
Description: 87B
Directory: c:\rtelogs\log87B.log
Machine: FSRTE87
Parameter Set: PARAM2
Index: 1551000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE87B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE87C
Description: 87C
Directory: c:\rtelogs\log87C.log
Machine: FSRTE87
Parameter Set: PARAM2
Index: 1554000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE87C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE87D
Description: 87D
Directory: c:\rtelogs\log87D.log
Machine: FSRTE87
Parameter Set: PARAM2
Index: 1557000000
Seed: 46329

Configured Users: 368640
Pipe Name: FSRTE87D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE87E
Description: 87E
Directory: c:\rtelogs\log87E.log
Machine: FSRTE87
Parameter Set: PARAM2
Index: 1560000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE87E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE87F
Description: 87F
Directory: c:\rtelogs\log87F.log
Machine: FSRTE87
Parameter Set: PARAM2
Index: 1563000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE87F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE88A
Description: 88A
Directory: c:\rtelogs\log88A.log
Machine: FSRTE88
Parameter Set: PARAM2
Index: 1566000000
Seed: 46329
Configured Users: 368640

Pipe Name: FSRTE88A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE88B
Description: 88B
Directory: c:\rtelogs\log88B.log
Machine: FSRTE88
Parameter Set: PARAM2
Index: 1569000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE88B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE88C
Description: 88C
Directory: c:\rtelogs\log88C.log
Machine: FSRTE88
Parameter Set: PARAM2
Index: 1572000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE88C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE88D
Description: 88D
Directory: c:\rtelogs\log88D.log
Machine: FSRTE88
Parameter Set: PARAM2
Index: 1575000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE88D445560671

Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE88E
Description: 88E
Directory: c:\rtelogs\log88E.log
Machine: FSRTE88
Parameter Set: PARAM2
Index: 1578000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE88E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE88F
Description: 88F
Directory: c:\rtelogs\log88F.log
Machine: FSRTE88
Parameter Set: PARAM2
Index: 1581000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE88F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE89A
Description: 89A
Directory: c:\rtelogs\log89A.log
Machine: FSRTE89
Parameter Set: PARAM2
Index: 1584000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE89A445560671
Connect Rate: 160

Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE89B
Description: 89B
Directory: c:\rtelogs\log89B.log
Machine: FSRTE89
Parameter Set: PARAM2
Index: 1587000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE89B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE89C
Description: 89C
Directory: c:\rtelogs\log89C.log
Machine: FSRTE89
Parameter Set: PARAM2
Index: 1590000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE89C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE89D
Description: 89D
Directory: c:\rtelogs\log89D.log
Machine: FSRTE89
Parameter Set: PARAM2
Index: 1593000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE89D445560671
Connect Rate: 160
Start Rate: 0

Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE89E
Description: 89E
Directory: c:\rtelogs\log89E.log
Machine: FSRTE89
Parameter Set: PARAM2
Index: 1596000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE89E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE89F
Description: 89F
Directory: c:\rtelogs\log89F.log
Machine: FSRTE89
Parameter Set: PARAM2
Index: 1599000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE89F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE90A
Description: 90A
Directory: c:\rtelogs\log90A.log
Machine: FSRTE90
Parameter Set: PARAM2
Index: 1602000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE90A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000

Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE90B
Description: 90B
Directory: c:\rtelogs\log90B.log
Machine: FSRTE90
Parameter Set: PARAM2
Index: 1605000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE90B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE90C
Description: 90C
Directory: c:\rtelogs\log90C.log
Machine: FSRTE90
Parameter Set: PARAM2
Index: 1608000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE90C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE90D
Description: 90D
Directory: c:\rtelogs\log90D.log
Machine: FSRTE90
Parameter Set: PARAM2
Index: 1611000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE90D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10

CLIENT_NURAND: 257
CPU: 1

Name: FSRTE90E
Description: 90E
Directory: c:\rtelogs\log90E.log
Machine: FSRTE90
Parameter Set: PARAM2
Index: 1614000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE90E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE90F
Description: 90F
Directory: c:\rtelogs\log90F.log
Machine: FSRTE90
Parameter Set: PARAM2
Index: 1617000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE90F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE91A
Description: 91A
Directory: c:\rtelogs\log91A.log
Machine: FSRTE91
Parameter Set: PARAM2
Index: 1620000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE91A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257

CPU: 0

Name: FSRTE91B
Description: 91B
Directory: c:\rtelogs\log91B.log
Machine: FSRTE91
Parameter Set: PARAM2
Index: 1623000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE91B445560671
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
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE93B
Description: 93B

Directory: c:\rtelogs\log93B.log
Machine: FSRTE93
Parameter Set: PARAM2
Index: 1659000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE93B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE93C
Description: 93C
Directory: c:\rtelogs\log93C.log
Machine: FSRTE93
Parameter Set: PARAM2
Index: 1662000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE93C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE93D
Description: 93D
Directory: c:\rtelogs\log93D.log
Machine: FSRTE93
Parameter Set: PARAM2
Index: 1665000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE93D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE93E
Description: 93E
Directory: c:\rtelogs\log93E.log

Machine: FSRTE93
Parameter Set: PARAM2
Index: 1668000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE93E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE93F
Description: 93F
Directory: c:\rtelogs\log93F.log
Machine: FSRTE93
Parameter Set: PARAM2
Index: 1671000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE93F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE94A
Description: 94A
Directory: c:\rtelogs\log94A.log
Machine: FSRTE94
Parameter Set: PARAM2
Index: 1674000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE94A445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE94B
Description: 94B
Directory: c:\rtelogs\log94B.log
Machine: FSRTE94

Parameter Set: PARAM2
Index: 1677000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE94B445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE94C
Description: 94C
Directory: c:\rtelogs\log94C.log
Machine: FSRTE94
Parameter Set: PARAM2
Index: 1680000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE94C445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE94D
Description: 94D
Directory: c:\rtelogs\log94D.log
Machine: FSRTE94
Parameter Set: PARAM2
Index: 1683000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE94D445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE94E
Description: 94E
Directory: c:\rtelogs\log94E.log
Machine: FSRTE94
Parameter Set: PARAM2

Index: 1686000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE94E445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 0

Name: FSRTE94F
Description: 94F
Directory: c:\rtelogs\log94F.log
Machine: FSRTE94
Parameter Set: PARAM2
Index: 1689000000
Seed: 46329
Configured Users: 368640
Pipe Name: FSRTE94F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Name: FSRTE95A
Description: 95A
Directory: c:\rtelogs\log95A.log
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: 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
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
Configured Users: 368640
Pipe Name: FSRTE96F445560671
Connect Rate: 160
Start Rate: 0
Max. Concurrency: 1000
Concurrency Rate: 10
CLIENT_NURAND: 257
CPU: 1

Number of User groups: 576

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE02C
IIS Server: FSCLIENT02C
SQL Server: FSNODE01CL
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: 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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
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: 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: 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: 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: 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
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: 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: 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: 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: 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: 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

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

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

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

Driver Engine: FSRTE05C
IIS Server: FSCLIENT05C
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: 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
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: 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: 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: 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: 36864
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
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: 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: FSRTE06F
IIS Server: FSCLIENT06F
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: 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: 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: 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: 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

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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

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

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

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
w_id Max Warehouse: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE08D
IIS Server: FSCLIENT08D
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: 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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE09B
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE10E
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: 36864
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
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: 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: FSRTE11C
IIS Server: FSCLIENT11C
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: 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: 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: 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: 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: FSRTE12B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE13E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE15B
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: 36864
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
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: 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: FSRTE15F
IIS Server: FSCLIENT15F
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: 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: 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: 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: 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: FSRTE16E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE18B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE19E
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: 36864
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
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: 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: FSRTE20C
IIS Server: FSCLIENT20C
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: 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: 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: 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: 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: FSRTE21B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE22E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE24B
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: 36864
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
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: 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: FSRTE24F
IIS Server: FSCLIENT24F
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: 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: 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: 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: 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: FSRTE25E
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
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

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

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

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

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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE27B
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE28E
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: 36864
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
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: 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: FSRTE29C
IIS Server: FSCLIENT29C
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: 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: 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: 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: 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: FSRTE30B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE31E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE33B
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: 36864
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
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: 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: FSRTE33F
IIS Server: FSCLIENT33F
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: 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: 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: 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: 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: FSRTE34E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE36B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE37B
IIS Server: FSCLIENT37B
SQL Server: FSNODE13CL
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: FSRTE37C
IIS Server: FSCLIENT37C
SQL Server: FSNODE13CL
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: FSRTE37D
IIS Server: FSCLIENT37D
SQL Server: FSNODE13CL
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: FSRTE37E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE39B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE40E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE42B
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: 36864
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
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: 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: FSRTE42F
IIS Server: FSCLIENT42F
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: 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: 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: 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: 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: FSRTE43E
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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
w_id Max Warehouse: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
w_id Max Warehouse: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE45B
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE46E
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: 36864
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
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: 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: FSRTE47C
IIS Server: FSCLIENT47C
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: 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: 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: 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: 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: FSRTE48B
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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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

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

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

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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE49E
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FS RTE50C
IIS Server: FSCLIENT50C
SQL Server: FS NODE17CL
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: FS RTE50D
IIS Server: FSCLIENT50D
SQL Server: FS NODE17CL
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: FS RTE50E
IIS Server: FSCLIENT50E
SQL Server: FS NODE17CL
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: FS RTE50F
IIS Server: FSCLIENT50F
SQL Server: FS NODE17CL

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: FS RTE51A
IIS Server: FSCLIENT51A
SQL Server: FS NODE17CL
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: FS RTE51B
IIS Server: FSCLIENT51B
SQL Server: FS NODE17CL
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: FS RTE51C
IIS Server: FSCLIENT51C
SQL Server: FS NODE17CL
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: FS RTE51D
IIS Server: FSCLIENT51D
SQL Server: FS NODE17CL
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: FS RTE51E
IIS Server: FSCLIENT51E
SQL Server: FS NODE17CL
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: FS RTE51F
IIS Server: FSCLIENT51F
SQL Server: FS NODE17CL
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: FS RTE52A
IIS Server: FSCLIENT52A
SQL Server: FS NODE18CL

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: 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: 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: FSRTE52E
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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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

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

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

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
w_id Max Warehouse: 36864
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: 36864
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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FS RTE53F
IIS Server: FSCLIENT53F
SQL Server: FS NODE18CL
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: FS RTE54A
IIS Server: FSCLIENT54A
SQL Server: FS NODE18CL
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: FS RTE54B
IIS Server: FSCLIENT54B
SQL Server: FS NODE18CL
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: FS RTE54C
IIS Server: FSCLIENT54C
SQL Server: FS NODE18CL

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: FS RTE54D
IIS Server: FSCLIENT54D
SQL Server: FS NODE18CL
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: FS RTE54E
IIS Server: FSCLIENT54E
SQL Server: FS NODE18CL
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: FS RTE54F
IIS Server: FSCLIENT54F
SQL Server: FS NODE18CL
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: FS RTE55A
IIS Server: FSCLIENT55A
SQL Server: FS NODE19CL
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: FS RTE55B
IIS Server: FSCLIENT55B
SQL Server: FS NODE19CL
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: FS RTE55C
IIS Server: FSCLIENT55C
SQL Server: FS NODE19CL
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: FS RTE55D
IIS Server: FSCLIENT55D
SQL Server: FS NODE19CL

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
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: 36864
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
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: 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: FSRTE56C
IIS Server: FSCLIENT56C
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: 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: 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: 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: 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: FSRTE57B
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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FS RTE57C
IIS Server: FSCLIENT57C
SQL Server: FS NODE19CL
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: FS RTE57D
IIS Server: FSCLIENT57D
SQL Server: FS NODE19CL
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: FS RTE57E
IIS Server: FSCLIENT57E
SQL Server: FS NODE19CL
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: FS RTE57F
IIS Server: FSCLIENT57F
SQL Server: FS NODE19CL

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: FS RTE58A
IIS Server: FSCLIENT58A
SQL Server: FS NODE20CL
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: FS RTE58B
IIS Server: FSCLIENT58B
SQL Server: FS NODE20CL
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: FS RTE58C
IIS Server: FSCLIENT58C
SQL Server: FS NODE20CL
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: FS RTE58D
IIS Server: FSCLIENT58D
SQL Server: FS NODE20CL
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: FS RTE58E
IIS Server: FSCLIENT58E
SQL Server: FS NODE20CL
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: FS RTE58F
IIS Server: FSCLIENT58F
SQL Server: FS NODE20CL
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: FS RTE59A
IIS Server: FSCLIENT59A
SQL Server: FS NODE20CL

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: FSRTE59B
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE59C
IIS Server: FSCLIENT59C
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: 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
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: 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: 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: FSRTE60B
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: 36864
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
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: 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: FSRTE60F
IIS Server: FSCLIENT60F
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: 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: 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: 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: 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: FSRTE61E
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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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

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

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

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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE63B
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE64E
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: 36864
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
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: 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: FSRTE65C
IIS Server: FSCLIENT65C
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: 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: 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: 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: 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: FSRTE66B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE67E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE69B
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: 36864
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
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: 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: FSRTE69F
IIS Server: FSCLIENT69F
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: 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: 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: 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: 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: FSRTE70E
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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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

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

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

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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE72B
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE73E
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: 36864
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
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: 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: FSRTE74C
IIS Server: FSCLIENT74C
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: 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: 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: 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: 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: FSRTE75B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE76E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE78B
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: 36864
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
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: 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: FSRTE78F
IIS Server: FSCLIENT78F
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: 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: 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: 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: 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: FSRTE79E
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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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

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

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

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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE81B
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE82E
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: 36864
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
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: 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: FSRTE83C
IIS Server: FSCLIENT83C
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: 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: 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: 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: 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: FSRTE84B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FS RTE85C
IIS Server: FSCLIENT85C
SQL Server: FS NODE29CL
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: FS RTE85D
IIS Server: FSCLIENT85D
SQL Server: FS NODE29CL
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: FS RTE85E
IIS Server: FSCLIENT85E
SQL Server: FS NODE29CL
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: FS RTE85F
IIS Server: FSCLIENT85F
SQL Server: FS NODE29CL

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: FS RTE86A
IIS Server: FSCLIENT86A
SQL Server: FS NODE29CL
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: FS RTE86B
IIS Server: FSCLIENT86B
SQL Server: FS NODE29CL
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: FS RTE86C
IIS Server: FSCLIENT86C
SQL Server: FS NODE29CL
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: FS RTE86D
IIS Server: FSCLIENT86D
SQL Server: FS NODE29CL
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: FS RTE86E
IIS Server: FSCLIENT86E
SQL Server: FS NODE29CL
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: FS RTE86F
IIS Server: FSCLIENT86F
SQL Server: FS NODE29CL
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: FS RTE87A
IIS Server: FSCLIENT87A
SQL Server: FS NODE29CL

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
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: 36864
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
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: 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: FSRTE87F
IIS Server: FSCLIENT87F
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: 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: 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: 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: 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: FSRTE88E
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE90B
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: 36864
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: 36864
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: 36864
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: 36864
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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE91E
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: 36864
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
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: 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: FSRTE92C
IIS Server: FSCLIENT92C
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: 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: 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: 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: 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: FSRTE93B
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
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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

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

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

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
w_id Max Warehouse: 36864
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: 36864
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: 36864
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: 36864
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: 36864
Scale: Normal

User Count: 368640
District id: 1
Scale Down: No

Driver Engine: FSRTE94E
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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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: 36864
Scale: Normal
User Count: 368640
District id: 1
Scale Down: No

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
w_id Max Warehouse: 36864
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
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: 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: 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: FSRTE96B
 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: 36864
 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
 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: 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: FSRTE96F
 IIS Server: FSCLIENT96F
 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

Number of Parameter Sets: 2

~Default
 Default Parameter Set
 Txn Think Key RT RT

Menu	Fence	Delay	Weight	Time	Time	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	Fence	Delay	Weight	Time	Time	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			

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
FSRTE04A	650	FSRTE12A	640	FSRTE20A	640	FSRTE28A	640
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
FSRTE06E	640	FSRTE14E	640	FSRTE22E	650	FSRTE30E	630
FSRTE06F	640	FSRTE14F	640	FSRTE22F	650	FSRTE30F	630
FSRTE07A	650	FSRTE15A	640	FSRTE23A	650	FSRTE31A	660
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
FSRTE33A	640	FSRTE42A	630	FSRTE50A	630	FSRTE58A	650
FSRTE33B	640	FSRTE42B	630	FSRTE50B	630	FSRTE58B	650
FSRTE33C	640	FSRTE42C	630	FSRTE50C	630	FSRTE58C	650
FSRTE33D	640	FSRTE42D	630	FSRTE50D	630	FSRTE58D	650
FSRTE33E	640	FSRTE42E	630	FSRTE50E	630	FSRTE58E	650
FSRTE33F	640	FSRTE42F	630	FSRTE50F	630	FSRTE58F	650
FSRTE33A	640	FSRTE43A	630	FSRTE51A	630	FSRTE59A	650
FSRTE33B	640	FSRTE43B	630	FSRTE51B	630	FSRTE59B	640
FSRTE33C	640	FSRTE43C	630	FSRTE51C	630	FSRTE59C	640
FSRTE33D	640	FSRTE43D	630	FSRTE51D	630	FSRTE59D	640
FSRTE33E	640	FSRTE43E	630	FSRTE51E	630	FSRTE59E	640
FSRTE33F	640	FSRTE43F	630	FSRTE51F	630	FSRTE59F	640
FSRTE33A	640	FSRTE44A	630	FSRTE52A	650	FSRTE60A	640
FSRTE33B	640	FSRTE44B	630	FSRTE52B	650	FSRTE60B	640
FSRTE33C	640	FSRTE44C	630	FSRTE52C	650	FSRTE60C	640
FSRTE33D	640	FSRTE44D	630	FSRTE52D	650	FSRTE60D	640
FSRTE33E	640	FSRTE44E	620	FSRTE52E	650	FSRTE60E	640
FSRTE33F	640	FSRTE44F	620	FSRTE52F	650	FSRTE60F	640
FSRTE33A	650	FSRTE45A	620	FSRTE53A	650	FSRTE61A	650
FSRTE33B	650	FSRTE45B	620	FSRTE53B	640	FSRTE61B	650
FSRTE33C	650	FSRTE45C	620	FSRTE53C	640	FSRTE61C	650
FSRTE33D	650	FSRTE45D	620	FSRTE53D	640	FSRTE61D	650
FSRTE33E	650	FSRTE45E	620	FSRTE53E	640	FSRTE61E	650
FSRTE33F	650	FSRTE45F	620	FSRTE53F	640	FSRTE61F	650
FSRTE33A	650	FSRTE46A	650	FSRTE54A	640	FSRTE62A	650
FSRTE33B	650	FSRTE46B	640	FSRTE54B	640	FSRTE62B	650
FSRTE33C	650	FSRTE46C	640	FSRTE54C	640	FSRTE62C	650
FSRTE33D	650	FSRTE46D	640	FSRTE54D	640	FSRTE62D	640
FSRTE33E	640	FSRTE46E	640	FSRTE54E	640	FSRTE62E	640
FSRTE33F	640	FSRTE46F	640	FSRTE54F	640	FSRTE62F	640
FSRTE33A	640	FSRTE47A	640	FSRTE55A	660	FSRTE63A	640
FSRTE33B	640	FSRTE47B	640	FSRTE55B	660	FSRTE63B	640
FSRTE33C	640	FSRTE47C	640	FSRTE55C	660	FSRTE63C	640
FSRTE33D	640	FSRTE47D	640	FSRTE55D	660	FSRTE63D	640
FSRTE33E	640	FSRTE47E	640	FSRTE55E	660	FSRTE63E	640
FSRTE33F	640	FSRTE47F	640	FSRTE55F	660	FSRTE63F	640
FSRTE33A	640	FSRTE48A	640	FSRTE56A	660	FSRTE64A	640
FSRTE33B	640	FSRTE48B	640	FSRTE56B	660	FSRTE64B	640
FSRTE33C	640	FSRTE48C	640	FSRTE56C	660	FSRTE64C	640
FSRTE33D	630	FSRTE48D	640	FSRTE56D	660	FSRTE64D	640
FSRTE33E	630	FSRTE48E	640	FSRTE56E	650	FSRTE64E	640
FSRTE33F	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
FSRTE65D	640	FSRTE73D	630	FSRTE81D	640	FSRTE89D	630
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FSRTE66A	640	FSRTE74A	630	FSRTE82A	640	FSRTE90A	620
FSRTE66B	630	FSRTE74B	630	FSRTE82B	640	FSRTE90B	620
FSRTE66C	630	FSRTE74C	630	FSRTE82C	640	FSRTE90C	620
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FSRTE66E	630	FSRTE74E	630	FSRTE82E	640	FSRTE90E	620
FSRTE66F	630	FSRTE74F	630	FSRTE82F	640	FSRTE90F	620
FSRTE67A	640	FSRTE75A	630	FSRTE83A	640	FSRTE91A	630
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FSRTE72F	640	FSRTE80F	650	FSRTE88F	630	FSRTE96F	650
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Warehouse Table

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8803 FSCLIENT94E FSRTE94E FSNODE32
8820 FSCLIENT94F FSRTE94F FSNODE32
8865 FSCLIENT95A FSRTE95A FSNODE32
8928 FSCLIENT95B FSRTE95B FSNODE32
8957 FSCLIENT95C FSRTE95C FSNODE32
9025 FSCLIENT95D FSRTE95D FSNODE32
9074 FSCLIENT95E FSRTE95E FSNODE32
9213 FSCLIENT95F FSRTE95F FSNODE32
9221 FSCLIENT96A FSRTE96A FSNODE32
9226 FSCLIENT96B FSRTE96B FSNODE32
9358 FSCLIENT96C FSRTE96C FSNODE32
9414 FSCLIENT96D FSRTE96D FSNODE32
9428 FSCLIENT96E FSRTE96E FSNODE32
9436 FSCLIENT96F FSRTE96F FSNODE32
9452 FSCLIENT94A FSRTE94A FSNODE32
9461 FSCLIENT94B FSRTE94B FSNODE32
9515 FSCLIENT94C FSRTE94C FSNODE32
9561 FSCLIENT94D FSRTE94D FSNODE32
9625 FSCLIENT94E FSRTE94E FSNODE32
9641 FSCLIENT94F FSRTE94F FSNODE32
9671 FSCLIENT95A FSRTE95A FSNODE32
9682 FSCLIENT95B FSRTE95B FSNODE32
9707 FSCLIENT95C FSRTE95C FSNODE32
9736 FSCLIENT95D FSRTE95D FSNODE32
9750 FSCLIENT95E FSRTE95E FSNODE32
9764 FSCLIENT95F FSRTE95F FSNODE32
9777 FSCLIENT96A FSRTE96A FSNODE32
9818 FSCLIENT96B FSRTE96B FSNODE32
9839 FSCLIENT96C FSRTE96C FSNODE32
9918 FSCLIENT96D FSRTE96D FSNODE32
10013 FSCLIENT96E FSRTE96E FSNODE32
10016 FSCLIENT96F FSRTE96F FSNODE32
10034 FSCLIENT94A FSRTE94A FSNODE32
10058 FSCLIENT94B FSRTE94B FSNODE32
10059 FSCLIENT94C FSRTE94C FSNODE32
10128 FSCLIENT94D FSRTE94D FSNODE32
10212 FSCLIENT94E FSRTE94E FSNODE32
10258 FSCLIENT94F FSRTE94F FSNODE32
10260 FSCLIENT95A FSRTE95A FSNODE32
10286 FSCLIENT95B FSRTE95B FSNODE32

10325 FSCLIENT95C FSRTE95C FSNODE32
10332 FSCLIENT95D FSRTE95D FSNODE32
10365 FSCLIENT95E FSRTE95E FSNODE32
10366 FSCLIENT95F FSRTE95F FSNODE32
10379 FSCLIENT96A FSRTE96A FSNODE32
10408 FSCLIENT96B FSRTE96B FSNODE32
10421 FSCLIENT96C FSRTE96C FSNODE32
10434 FSCLIENT96D FSRTE96D FSNODE32
10463 FSCLIENT96E FSRTE96E FSNODE32
10520 FSCLIENT96F FSRTE96F FSNODE32
10656 FSCLIENT94A FSRTE94A FSNODE32
10710 FSCLIENT94B FSRTE94B FSNODE32
10711 FSCLIENT94C FSRTE94C FSNODE32
10714 FSCLIENT94D FSRTE94D FSNODE32
10747 FSCLIENT94E FSRTE94E FSNODE32
10771 FSCLIENT94F FSRTE94F FSNODE32
10934 FSCLIENT95A FSRTE95A FSNODE32
10961 FSCLIENT95B FSRTE95B FSNODE32
10972 FSCLIENT95C FSRTE95C FSNODE32
10997 FSCLIENT95D FSRTE95D FSNODE32
11032 FSCLIENT95E FSRTE95E FSNODE32
11133 FSCLIENT95F FSRTE95F FSNODE32
11146 FSCLIENT96A FSRTE96A FSNODE32
11174 FSCLIENT96B FSRTE96B FSNODE32
11182 FSCLIENT96C FSRTE96C FSNODE32
11203 FSCLIENT96D FSRTE96D FSNODE32
11255 FSCLIENT96E FSRTE96E FSNODE32
11275 FSCLIENT96F FSRTE96F FSNODE32
11295 FSCLIENT94A FSRTE94A FSNODE32
11311 FSCLIENT94B FSRTE94B FSNODE32
11334 FSCLIENT94C FSRTE94C FSNODE32
11357 FSCLIENT94D FSRTE94D FSNODE32
11381 FSCLIENT94E FSRTE94E FSNODE32
11409 FSCLIENT94F FSRTE94F FSNODE32
11488 FSCLIENT95A FSRTE95A FSNODE32
11531 FSCLIENT95B FSRTE95B FSNODE32
11547 FSCLIENT95C FSRTE95C FSNODE32
11553 FSCLIENT95D FSRTE95D FSNODE32
11557 FSCLIENT95E FSRTE95E FSNODE32
11581 FSCLIENT95F FSRTE95F FSNODE32
11633 FSCLIENT96A FSRTE96A FSNODE32
11647 FSCLIENT96B FSRTE96B FSNODE32
11654 FSCLIENT96C FSRTE96C FSNODE32
11665 FSCLIENT96D FSRTE96D FSNODE32
11675 FSCLIENT96E FSRTE96E FSNODE32
11713 FSCLIENT96F FSRTE96F FSNODE32
11732 FSCLIENT94A FSRTE94A FSNODE32
11751 FSCLIENT94B FSRTE94B FSNODE32
11758 FSCLIENT94C FSRTE94C FSNODE32

36134 FSCLIENT96B FSRTE96B FSNODE32
36141 FSCLIENT96C FSRTE96C FSNODE32
36212 FSCLIENT96D FSRTE96D FSNODE32
36325 FSCLIENT96E FSRTE96E FSNODE32
36474 FSCLIENT96F FSRTE96F FSNODE32
36518 FSCLIENT94A FSRTE94A FSNODE32
36547 FSCLIENT94B FSRTE94B FSNODE32
36562 FSCLIENT94C FSRTE94C 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 removeable, 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	PCIVEN_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\raspptp.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\MINI\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_NDIS\WANIP\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 : NullConfig
 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 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 ST318203B227LR634569

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 ST318203B227LR657126

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 ST318203B227LR585364

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 ST318203B227LR620837

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 102094614639

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 ST318203B227LR641763

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 ST318203B227LR636251

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 ST318203B227LR642213

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 ST318203B227LR642336

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 ST318203B227LR660657

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 ST318203B227LR628378

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 ST318203B227LR661723

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 ST318203B227LR662744

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 ST318203B227LR663117
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 ST318203B227LR661065
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 102094718935
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 ST318203B227LR665955
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 ST318203B227LR668854
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 ST318203B227LR661944
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 ST318203B227LR634537
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 ST318203B227LR629005
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 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)
Size (in MB)/(in Sectors): 17357/35548048
Device ID : IBM-PSG ST318203B227LR655016

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 ST318203B227LR657615

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 102094614477

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 ST318203B227LR662091

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 ST318203B227LR574573

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 ST318203B227LR669227

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 ST318203B227LR661977

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 ST318203B227LR703536

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 ST318203B227LR611293

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 ST318203B227LR652414
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 ST318203B227LR570882

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 ST318203B227LR655607

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 ST318203B227LR663758

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 102094718909

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 ST318203B227LR641510

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 ST318203B227LR509892

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 ST318203B227LR509843

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 ST318203B227LR570529
 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 ST318203B227LR661640
 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 ST318203B227LR645177
 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 ST318203B227LR645246
 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 ST318203B227LR104860
 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 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 : NullConfig
 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 : NullConfig
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 : NullConfig
 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 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
 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 ST318203B227LR757196
 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 : NullConfig
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)
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 : NullConfig
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 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

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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

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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

SYSWB.E.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

DB210851 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_363&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\pcentn5m.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_054&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_054&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_L2TPMINIPOINT\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_PPTPMINIPOINT\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\rasptp.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_PTMINIPOINT\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 SCsIBus 0
 Drive SCsILogicalUnit 0
 Drive SCsIPort 3
 Drive SCsITargetId 1
 Drive SectorsPerTrack 63
 Drive Size 9097159680 bytes
 Drive TotalCylinders 1106
 Drive TotalSectors 17767890
 Drive TotalTracks 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: 180-Day Space

TPC-C 180-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
WDL	64	5,888,240.00	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)				
180-Day Space (KB)	39,821,804,721.57	Static Space + 180 (Daily Growth + Daily Spread)				
180-Day Space (GB)	37,977.03	180-Day Space in GB (Excludes OS,Paging and RDBMS Logs)				
Available (GB)	56,940.80	Total storage configured and available for database, minus logs, in a RAID-1E configuration				
Log File Storage Requirements						
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						
180-Day (RAID-1)	GB Needed	Disks Priced	GB Priced	GB Usable	TB Usable	
	37,977.03	0 9.1GB 10K rpm	0.00	0.00		
Total DB		6,720 18.2GB 10K rpm	113,898.75	56,949.375		
		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	39,333.80	7,040	118,780.13	61,017.19		59.58

Appendix F: Third-Party Quotations

Software House International
2880 Zanker Blvd. #103
Sanjose, CA 95134
Matthew Martin
National Account Executive
1-800-766-6357

Description	Part Number	Unit Price	Qty	Extended Price
IBM Netfinity 8500R	8681-8RY	18,372	32	587,904
700MHz / 2MB Processor Upgrade	10K2166	5,460	96	524,160
8500 Memory Expansion Card	28L4454	557	32	17,824
8500 >4X Accelerator Kit (4X SRAM)	10K2335	1,113	32	35,616
512MB ECC SDRAM RDIMM Memory Upgrade Kit	20L0249	2,168	256	555,008
Netfinity ServerRAID-3HB Ultra2 SCSI Adapter	37L6086	1,602	256	410,112
Netfinity 4.2M Ultra2 SCSI Cable	03K9311	110	736	80,960
EtherJet 10/100 PCI Management Adapter	34L1210	58	32	1,856
3502-108 DLT Tape Autoloader	3502108	8017	1	8,017
Netfinity Rack	9306900	1,536	78	119,808
Side Panel Kit	94G6669	175	12	2,100
Netfinity EXP200 Rack Storage Exp. Enclosure	35301RU	2,311	704	1,626,944
Netfinity EXP 9.1GB 10K Wide Ultra SCSI Drive	00N8207	356	64	22,784
Netfinity EXP 18.2GB 10K Wide Ultra SCSI Drive	00N8208	534	6,976	3,725,184
IBM Netfinity 5000 / 600MHz/512KB Pentium III	8659-6RY	2783	96	267,168
600MHz Upgrade with Pentium III	33L5106	398	96	38,208
128MB ECC SDRAM RDIMM	01K7262	373	288	107,424
9.1GB 10K rpm Wide Ultra Drive	00N8207	356	96	34,176
Intel Pro/100+ Dual Port Ethernet Adapter	8472	219	288	63,072
IBM E54 15" (13.8" Viewable) Color Monitor	6331B2N	165	128	21,120
MicroHub/8-Port 10Mbps Hub	DEH2924	25	50,688	1,267,200
Total:				9,516,645

Quote good for 90 days from 6/21/2000
5 Year return to manufacturer warranty on hubs

June 22, 2000

Chris King
IBM Corp.
3039 Cornwallis Road
Research Triangle Park, North Carolina 27709

Dear Chris,

Here is the information you requested regarding U.S. pricing for Several Microsoft products, to be used in Conjunction with TPC-C benchmark testing.

	Total
Windows 2000 Advanced Server (one server with 25 CALS)@ \$3,999	\$127,968
Windows 2000 Server (one server with 5 CALS)@ \$999	\$95,904
Visual C++ Professional 6.0 (single copy) @ \$549	\$549
5-year maintenance for above software	\$8425
These products are available now, and this quote is valid for the next 90 days.	

If I can be of any further assistance, please contact me at (425) 936-6662. or robertba@microsoft.com.

Robert Barnes
Group Manager
Enterprise Server Products
Microsoft Corporation

Quote

Gigaset, Inc.

Concord Office Center
 2352 Main Street
 Concord, MA 01742
 (978) 461-0402 ext.352
(978)897-0284 Fax

Quote No.: 000407-01
Date: June 23, 2000

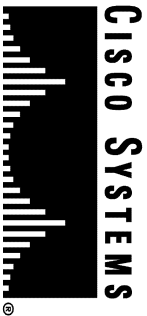
Ship to: IBM Corp.
 Chris King
 3039 Corwallis Road
 Dept. 23UA Bldg. 060/D133
 Research Triangle Park, NC 27709

F.O.B.	Terms
Concord, MA	Net 30

Qty	Part Number/ Description	Unit Price	Ext. Price
35	CLAN-1000 Gigaset 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
	5-Year Maintenance Price (7x24x4)	\$15,000.00	\$75,000.00
	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

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: 6/21/00
To: Joe Jakubowski
IBM

Quote Number: 4Z2-RPT
Total Price: \$107,898.75

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	1	\$7,995.00		25.000%	\$5,996.25
WS-CAC-1300W	Catalyst 6506 Chassis Catalyst 6000 1300W AC	1	\$3,995.00		25.000%	\$2,996.25
WS-CAC-1300W/2	Power Supply Catalyst 6000 Second 1300W	1	\$3,995.00		25.000%	\$2,996.25
CAB-7513AC	AC Power Supply AC POWER CORD NORTH AMERICA	1	\$3,995.00		25.000%	\$2,996.25
SFC6K-SUP-5.3.5	Catalyst 6000 Supervisor Flash Image, Release 5.3(5)	2	\$0.00		0.000%	\$0.00
WS-X6K-SUP1A-PFC	Catalyst 6000 Supervisor Engine1-A, 2GE, plus PFC	1	\$0.00		0.000%	\$0.00
MEM-C6K-FLC16M	Catalyst 6000 Supervisor PCMCIA Flash Mem Card, 16MB Option	1	\$17,495.00		25.000%	\$13,121.25
WS-X6348-RJ-45	Catalyst 6000 48-port 10/100, Upgradable to Voice, Enh QoS	1	\$400.00		25.000%	\$300.00
WS-G5484	1000BASE-SX "Short Wavelength" GBIC (Multimode only)	3	\$12,995.00		25.000%	\$29,238.75
CON-OSP-WS-C6506	Maintenance and support extended price is calculated for 5 years. 24x7x4 OS Service, Catalyst 6506	2	\$500.00		25.000%	\$750.00
		5	\$10,500.00		0.000%	\$52,500.00

FOB Point: Origin
Ship Date:
Quote Valid Until: 09/21/2000

Payment Terms: Net 30
Installation: Available on Request and Billable
Warranty: 90 days

Notes:
Netfinity Lab Equipment

Bob Blum

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.

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