

*TPC Benchmark<sup>TM</sup>C*

*Full Disclosure Report*

*Fujitsu*

*teamserver M830ic*

*c/s w/ 8 Front-Ends*

*running*

*SymfoWARE Server*

*Enterprise Edition for VLM V1.1*

*September 22, 1998*

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The benchmark results contained in this document were submitted for compliance with version 3.4 of the TPC Benchmark C Standard Specification. The result of that action is to place these benchmark results into the sixty day under review status as of September 22, 1998.

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

All performance data contained in this report were obtained in a rigorously controlled environment. Results obtained in other operating environments may vary significantly. Fujitsu does not warrant or represent that a user can or will achieve similar performance expressed in transactions per minute (tpmC) or normalized price/performance (\$/tpmC). No warranty of system performance or price/performance is expressed or implied in this report.

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## *Preface*

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

### **TPC Benchmark C Overview**

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

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

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

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

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

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

## *Abstract*

### **Overview**

This report documents the methodology and results of the TPC Benchmark C test conducted by Fujitsu Ltd. on the Fujitsu *teamserver M830ic* c/s w/ 8 Front-Ends. The operating system used for the benchmark was Windows NT 4.0 Enterprise Edition. The DBMS used was SymfoWARE Server Enterprise Edition for VLM V1.1.

### **TPC Benchmark C Metrics**

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

17,056.63 tpmC  
\$36.24 per tpmC  
March 1<sup>st</sup>, 1999

### **Standard and Executive Summary Statements**

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

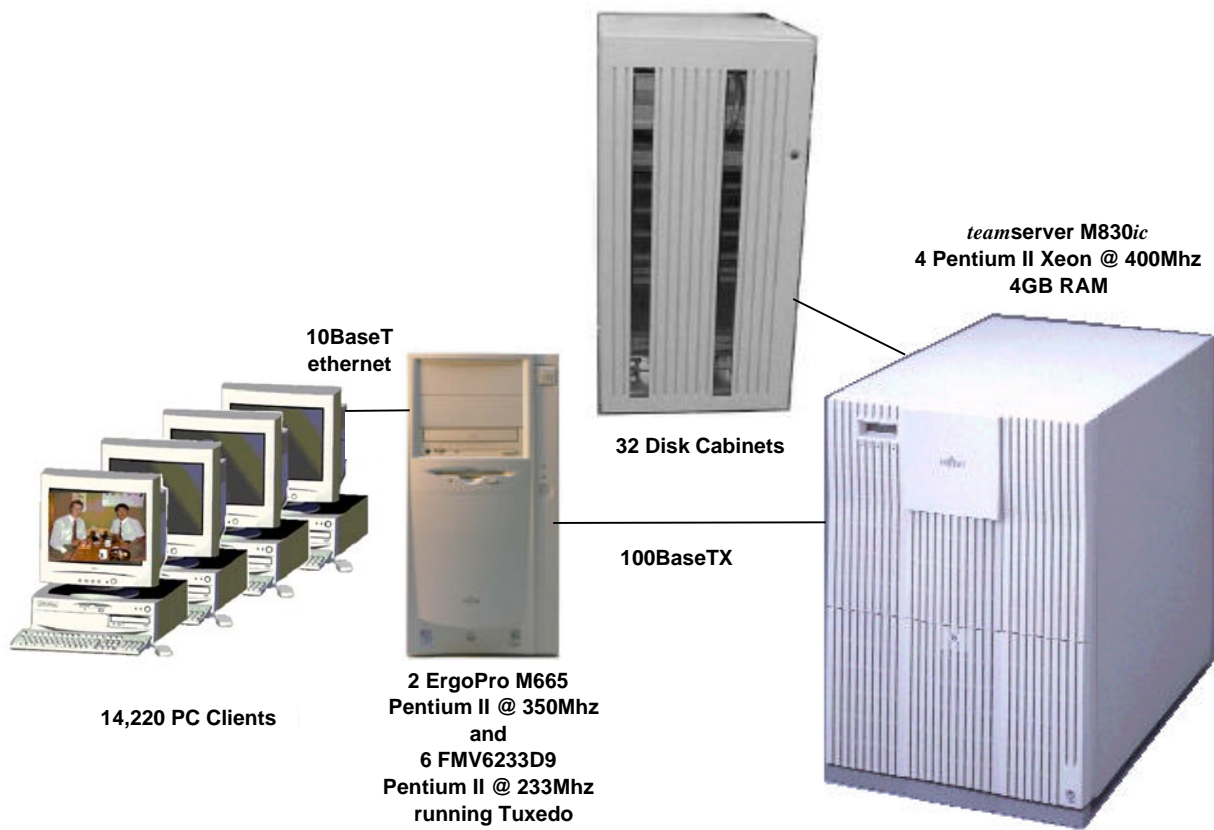
### **Auditor**

The benchmark configuration, environment and methodology, along with the pricing model used to calculate the cost per tpmC, were audited by Francois Raab of Information Paradigm to verify compliance with the relevant TPC specifications.

## Priced Configuration

<b>FUJITSU</b>		<b>teamserver M830ic</b>		TPC-C Rev 3.4
		<b>c/s w/ 8 Front-Ends</b>		Report Date: September 22, 1998
<b>Total System Cost</b>		<b>TPC-C Throughput</b>	<b>Price/Performance</b>	<b>Availability Date</b>
\$618,090		17,056.63 tpmC	\$36.24/tpmC	March 1'st, 1999
<b>Processors</b>	<b>Database Manager</b>	<b>Operating system</b>	<b>Other Software</b>	<b>Number of users</b>
4 Pentium II Xeon @ 400Mhz	SymfoWARE Server Enterprise Edition for VLM V1.1	Microsoft Windows NT Server 4.0 Enterprise Edition	BEA Tuxedo 6.4 CPS Fujitsu COBOL V4	14,220

### teamserver M830ic Priced Configuration



RDBMS SERVER			CLIENTS(EACH OF 8)	
SYSTEM COMPONENTS	QTY	DESCRIPTION	QTY	DESCRIPTION
PROCESSOR	4	PENTIUM II XEON @ 400MHZ	1	PENTIUM II @ 350MHZ (2 CLIENTS), PENTIUM II @ 233MHZ (6 CLIENTS)
CACHE MEMORY		1MB (EACH PROCESSOR)		512KB (EACH)
MEMORY		4GB		256MB
DISK CONTROLLER	8	MYLEX DAC960PJ (3 CHANNELS)	1	IDE
DISKS	225	9GB (7200RPM)	1	4.3GB
	5	9GB (1000RPM)		
TOTAL		1948.1GB		
TERMINAL	1	FUJITSU E 175 DISPLAY	1	FUJITSU E 175 DISPLAY
NETWORK INTERFACE	1	FASTETHERNET ADAPTER	3	1 FASTETHERNET ADAPTER, 2 ETHERNET ADAPTERS
HUBS	4	8-PORT (100 BASE-TX)	1,961	COMPEX MICROHUB (8 PORTS)
PC S			14,220	PC S RUNNING WINDOWS 95

Numerical Quantities Summary								
<i>teamserver M830ic c/s w/ 8 Front-Ends</i>								
<b>SymfoWARE Server Enterprise Edition V1.1</b>								
<b>MQTH, Computed Maximum Qualified Throughput</b>					<b>17,056.63 tpmC</b>			
<b>Response Times (in seconds)</b>		<b>Average</b>		<b>90%</b>		<b>Max.</b>		
New-Order		1.18		2.43		30.81		
Payment		1.07		2.27		30.45		
Order-Status		1.09		2.28		29.65		
Delivery (interactive portion)		0.23		0.16		8.27		
Delivery (deferred portion)		1.54		2.72		20.11		
Stock-Level		1.07		2.28		23.97		
Menu		0.21		0.16		8.27		
<b>Transaction Mix, in percent of total transaction</b>								
New-Order						44.71		
Payment						43.07		
Order-Status						4.10		
Delivery						4.05		
Stock-Level						4.07		
<b>Emulation Delay (in seconds)</b>				<b>Resp. Time</b>		<b>Menu</b>		
New-Order				.1		.1		
Payment				.1		.1		
Order-Status				.1		.1		
Delivery (interactive)				.1		.1		
Stock-Level				.1		.1		
<b>Keying/Think Times (in seconds)</b>			<b>Min.</b>		<b>Average</b>		<b>Max.</b>	
New-Order			18.10 0.02		18.11 12.04		18.18 119.11	
Payment			3.04 0.02		3.06 12.02		3.14 120.04	
Order-Status			2.05 0.02		2.06 10.24		2.11 101.75	
Delivery (interactive)			2.05 0.02		2.06 5.03		2.11 47.87	
Stock-Level			2.05 0.02		2.06 5.05		2.12 46.94	
<b>Test Duration</b>								
Ramp-up time (seconds)						1,790		
Measurement interval						1,800		
Transactions during measurement interval						511,699		
<b>Checkpointing</b>								
Number of checkpoints						1		
Checkpoint interval						1,800		
<b>Reproducibility Run</b>								
Reported measurement						17,056.63		
Reproducibility measurement						17,011.80		
Difference						.26%		

# Detailed Pricing Information

	<b>Detailed Pricing Information</b> <i>teamserver M830ic</i> <b>c/s w/ 8 Front-Ends</b>	TPC-C Rev 3.4 Report Date: September 22, 1998
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Order Number	Description	Quantity	Third Party	Unit Price	Extended Price	Maintenance rate/unit	5 Years Maintenance
<b>Server Hardware</b>							
GP5M830A	teamserver M830ic	1		14,005.00	14,005.00	2,100.75/Syr	2,100.75
	w/ 1 x Pentium II 400MHz/1024KB, 256MB memory, 0GB disk						
GP5-FG10F	Pentium II Xeon (400MHz/1MB)	3		4,705.00	14,115.00	705.75/Syr	2,117.25
GP5-RM51G	512MB ECC RAM Upgrade	8		2,976.00	23,808.00	446.40/Syr	3,571.20
TMSRVR-OPTION-5633	Mylex DAC960PI RAID controller w/ 32MB cache	8		1,858.00	14,864.00	20.00/mo	9,600.00
GP5MS621A	Hard Disk Cabinet	16		1,596.00	25,536.00	239.40/Syr	3,830.40
GP5MS621SA	Additional Shelf	16		1,446.00	23,136.00	216.90/Syr	3,470.40
GP5MU829A	SCSI Cable (2.0m)	24		121.00	2,904.00	18.15/Syr	435.60
GP5MU831A	SCSI Cable (0.3m)	8		57.00	456.00	8.55/Syr	68.40
GP5MHDH9GA	9GB 7,200rpm disk	225		951.00	213,975.00	142.65/Syr	32,096.25
GP5-HDH94	9GB 10,000rpm disk	5		1,108.00	5,540.00	166.20/Syr	831.00
GP5-125	SCSI Adapter (Ultra-2 Wide)	1		455.00	455.00	68.25/Syr	68.25
GP5-182	FastEthernet Adapter (10/100BaseTX)	2		82.00	164.00	12.30/Syr	24.60
PD53K0E3	Fujitsu e175 Display	1		579.00	579.00	86.85/Syr	86.85
GP5UDT301	12GB Internal DDS-3 DAT Drive	1		1,208.00	1,208.00	181.20/Syr	181.20
<b>Server Hardware Subtotals</b>					<b>340,745.00</b>		<b>58,482.15</b>
<b>Server Software</b>							
	Microsoft Windows NT 4.0 Server Enterprise Edition, included 25 CALs	1	1	3,999.00	3,999.00	0.00	0.00
	SymfoWARE Server Enterprise Edition for VLM V1.1 200 Licences pack	1		40,000.00	40,000.00	20,000.00/Syr	20,000.00
	Microsoft Visual C++ Professional 6.0	1	1	549.00	549.00	0.00	0.00
	Microsoft Software Maintenance	1	1	0.00	0.00	2,095.00/yr	10,475.00
<b>Server Software Subtotals</b>					<b>44,548.00</b>		<b>30,475.00</b>
<b>Client Hardware</b>							
U2H27D6E31E3	Fujitsu ErgoPro M665/350 w/ 64MB memory, 4.3GB disk	2		1,945.00	3,890.00	291.75/Syr	583.50
PL060171	64MB Memory for ErgoPro	2		300.00	600.00	45.00/Syr	90.00
PL060172	128MB Memory for ErgoPro	2		607.00	1,214.00	91.05/Syr	182.10
PN010297	FastEthernet Adapter (10/100BaseTX) for ErgoPro	6		131.00	786.00	19.65/Syr	117.90
FMV9D50A01	Fujitsu FMV-6233D9	6		1,230.00	7,380.00	184.50/Syr	1,107.00
	w/ 64MB memory, 4.3GB disk, 100Base-TX on-board LAN						
FMV-M128SA	128MB Memory for FMV-6233D9	12		302.00	3,624.00	45.30/Syr	543.60
FMV-188	FastEthernet Adapter (10/100BaseTX) for FMV-6233D9	12		67.00	804.00	10.05/Syr	120.60
PD53K0E3	Fujitsu e175 Display	8		579.00	4,632.00	86.85/Syr	694.80
<b>Client Hardware Subtotals</b>					<b>22,930.00</b>		<b>3,439.50</b>
<b>Client Software</b>							
	Microsoft Windows NT Server 4.0, include 5 CALs	8	1	809.00	6,472.00	0.00/yr	0.00
	Fujitsu COBOL V4 Standard Edition	1		750.00	750.00	150.00/yr	750.00
	BEA Tuxedo 6.4 CFS	8	2	3,000.00	24,000.00	450.00/yr	18,000.00
<b>Client Software Subtotals</b>					<b>31,222.00</b>		<b>18,750.00</b>
<b>User Connectivity</b>							
NH2012R	8-Port 10/100 Ethernet Switch (8ports) *	4	3	2,167.00	8,668.00	0.00	0.00
TP1008C	8-Port RJ45 & BNC Ethernet Hub *	1961	4	30.00	58,830.00	0.00	0.00
<b>User Connectivity Subtotals</b>					<b>67,498.00</b>		<b>0.00</b>
<b>Totals</b>					<b>506,943.00</b>		<b>111,146.65</b>
<b>5 Year cost</b>							<b>618,090</b>
<b>tpmC</b>							<b>17,056.63</b>
<b>\$ / tpmC</b>							<b>36.24</b>
*: 10% or minimum of 2 spares are included.							
<b>Third Party :</b>							
	1 = Microsoft Corporation						
	2 = BEA Systems						
	3 = NBase Switch Comm.						
	4 = COMPEX, INC						

**Notes:**

Results independently audited by Francois Raab of Information Paradigm, Inc.

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



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## General Items

### Application Code and Definition Statements

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

Appendix A and B contain all source code implemented in this benchmark.

### Test Sponsor

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

Fujitsu sponsored and conducted this TPC Benchmark C.

### Parameter Settings

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

- *Database options,*
- *Recover/commit options,*
- *Consistency/locking options*

- *Operating system and application configuration parameter.*  
*This requirement can be satisfied by providing a full list of all parameters.*

Appendix D contains the parameters for the database, the operating system, and the configuration for the transaction monitor.

## Configuration Items

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

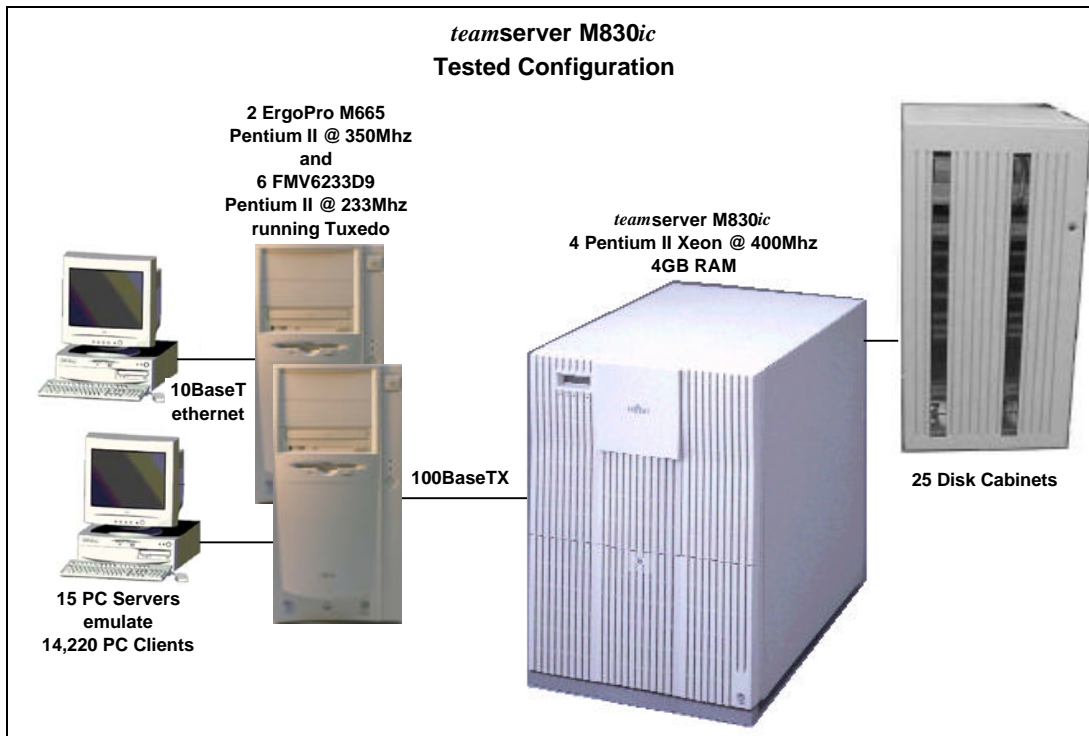
The System Under Test (SUT), *ateamserver M830ic c/s w/ 8 Front-Ends*, is depicted in the following diagrams.

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

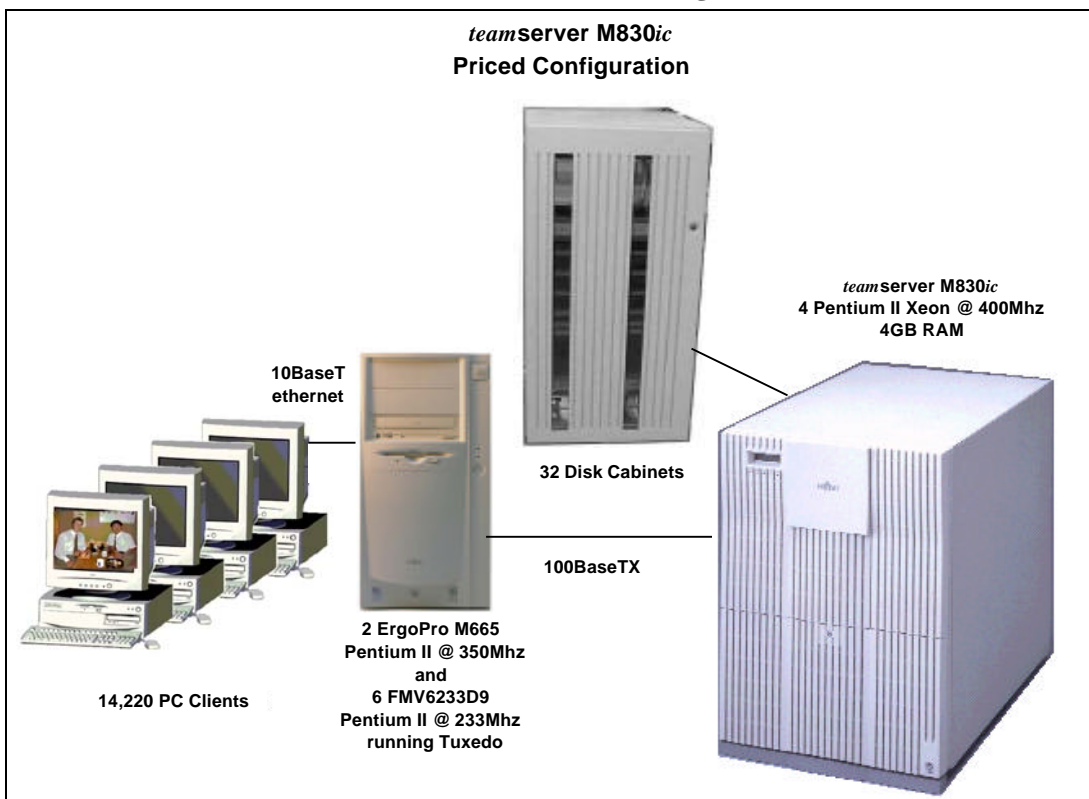
There were differences between the priced and measured configurations. The differences are:

- A RTE was used in the tested configuration.
- The 4 GB disks used in the measurement were replaced by 9 GB disks in the priced configuration.

**teamserver M830ic Tested Configuration**



**teamserver M830ic Priced Configuration**



## *Clause 1 Related Items*

### **1.1. Table Definitions**

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

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

### **1.2. Physical Organization of Database**

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

Appendix F discloses the organization of tables and indices on the disks.

### **1.3. Insert and Delete Operations**

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

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

## 1.4. Partitioning

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

All tables were horizontally partitioned except for Items. Each table was horizontally partitioned following the w-id values given below:

Table	DSI (Data Structure Instance)
Warehouse	54 WH
District	54 WH
Customer	9 WH
History	9 WH
Order	9 WH
New Order	9 WH
OrderLine	9 WH
Stock	27 WH

## 1.5. Replication, Duplication or Additions

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

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



## *Clause 2 Related Items*

### **2.1 Random Number Generation**

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

The seeds for each user were generated using the process id. Each RTE machine was given a number incremented by 30,000. The process id was appended to this number to ensure uniqueness across all RTE machines. These seeds were printed to a file and verified by the auditor to be unique.

### **2.2 Input/Output Screen Layout**

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

All screen layouts followed the specification exactly.

### **2.3 Priced Terminal Feature Verification**

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

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

## 2.4 Presentation Manager or Intelligent Terminal

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

Presentation is handled by the Internet Explorer 3.02 bundled with Microsoft Windows 95.

## 2.5 Transaction Statistics

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

**Table 2.1 Transaction Statistics**

Statistic		Value
New Order	Home warehouse order lines	99.00%
	Remote warehouse order lines	1.00%
	Rolled back transactions	0.98%
	Average items per order	9.99
Payment	Home warehouse	84.93%
	Remote warehouse	15.07%
	Accessed by last name	60.06%
Order Status	Accessed by last name	59.87%
Delivery	Skipped transactions	None
Transaction Mix	New Order	44.71%
	Payment	43.07%
	Order status	4.10%
	Delivery	4.05%
	Stock level	4.07%

## 2.6 Queueing Mechanism

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

Delivery transactions were submitted to servers using the same mechanism that other transactions used. The only difference was that the Tuxedo call to the server process was asynchronous, i.e., control would return to the client process immediately and the deferred delivery part would complete asynchronously on the server.

## *Clause 3 Related Items*

### **3.1 Transaction System Properties (ACID)**

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

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

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

### **3.2 Atomicity**

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

#### **3.2.1 Completed Transactions**

*Perform the Payment transaction for a randomly selected warehouse, district, and customer (by customer number as specified in Clause 2.5.1.2) and verify that the*

*records in the CUSTOMER, DISTRICT, and WAREHOUSE tables have been changed appropriately.*

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

### 3.2.2 Aborted Transactions

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

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

## 3.3 Consistency

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

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

- The sum of the district balances in a warehouse is equal to the warehouse balance;
- for each district, the next order id minus one is equal to the maximum order id in the ORDER table and equal to the maximum new order id in the NEW-ORDER table;
- for each district, the maximum order id minus minimum order id in the ORDER table plus one equals the number of rows in the NEW-ORDER table for that district;
- for each district, the sum of the order line counts in the ORDER table equals the number of rows in the ORDER-LINE table for that district.

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

A performance run was completed including a full 30 minutes of steady state and checkpoints.

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

## 3.4 Isolation

*Isolation can be defined in terms of phenomena that can occur during the execution of concurrent transactions. These phenomena are P0 ( Dirty Write), P1 ( Dirty Read), P2 ( non-repeatable Read), and P3 ( Phantom). The table in Clause 3.4.1 of the*

*TPC-C specifications defines the isolation requirements which must be met by the TPC-C transactions. Sufficient conditions must be enabled at either the system or application level to ensure the required isolation defined above (clause 3.4.1) is obtained.*

The benchmark specification defines nine required tests to be performed to demonstrate that the required levels of transaction isolation are met. These tests, described in Clauses 3.4.2.1 - 3.4.2.9, were all performed and verified as required.

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

For Isolation test seven, case A was followed.

## 3.5 Durability

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

### 3.5.1 Durable Media Failure

#### 3.5.1.1 Loss of Log And Data

To demonstrate recovery from a permanent failure of durable medial containing the SymfoWARE recovery log data and TPC-C tables, the following steps were executed on the fully-scaled database used for the performance measurements:

1. The database was backed up to extra disks.
2. The total number of orders was determined by the sum of D\_NEXT\_O\_ID of all rows in the DISTRICT table giving the beginning count.
3. The RTEs were started with 14,040 users.
4. The test was allowed to run for a minimum of 5 minutes.
5. One of the log disks was powered off by removing it from the cabinet. Since the log was mirrored, the transactions continued to run without interruption.
6. The test was allowed to run for another 5 minutes and a disk failure was caused by removing a disk from the disk cabinet.
7. The RTEs were shut down
8. A new disk was inserted into the disk cabinet and the data disk was reformatted to simulate a complete loss of data.
9. SymfoWARE was restarted.
10. Data from the backup disk was copied to the new disk and SymfoWARE used the transaction logs to roll forward the recovery data from committed transactions.
11. Step 2 was repeated and the difference between the first and second counts noted.
12. The success file was used to determine the number of NEW\_ORDERS successfully returned to the RTEs.
13. The counts in step 11 and 12 were compared, and the results verified that all committed transactions were successfully recovered.
14. Data from the success file was used to query the database to demonstrate that successful transactions had corresponding rows in the ORDER table and that rolled back transactions did not.

### 3.5.2 Instantaneous Interruption and Loss of Memory

Because loss of power erases the contents of memory, the instantaneous interruption and the loss of memory tests were combined into a single test. This test was executed on a fully scaled database of 1,458 warehouses under a full load of 14,040 users. The following steps were executed:

1. The total number of orders was determined by the sum of D\_NEXT\_O\_ID of all rows in the DISTRICT table giving the beginning count.
2. The RTE was started with 14,040 users.
3. The test was allowed to run for a minimum of 20 minutes.
4. A checkpoint was enforced.
5. The test was allowed to run for another minute.
6. The primary power to the processor was shutdown.
7. The RTE was shutdown.
8. Power was restored and the system performed an automatic recovery.
9. SymfoWARE was restarted and performed an automatic recovery .
10. Step 1 was repeated and the difference between the first and second counts was noted.
11. The success file was used to determine the number of NEW-ORDERS successfully returned to the RTE.
12. The counts in step 10 and 11 were compared and the results verified that all committed transactions had been successfully recovered.
13. Data from the success file was used to query the database to demonstrate successful transactions had corresponding rows in the ORDER table, and rolled back transactions did not.

## Clause 4 Related Items

### 4.1 Initial Cardinality of Tables

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

The TPC-C database was initially configured with 1,458 warehouses, w-id 1423 through 1,458 were deleted before performance runs were conducted.

**Table 4.1 Number of Rows for Server**

Table	Occurrences
Warehouse	1,458
District	14,580
Customer	43,740,000
History	43,740,000
Order	43,740,000
New Order	13,122,000
Order Line	437,336,194
Stock	145,800,000
Item	100,000

## 4.2 Database Layout

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

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

## 4.3 Type of Database

*A statement must be provided that describes:*

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

SymfoWARE is a relational DBMS.

The interface used was SymfoWARE stored procedures embedded in C code. The new-order transaction also used COBOL to accomplish bulk inserts of the order lines.

## 4.4 Database Mapping

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

The database, with the exception of the Item table, was horizontally partitioned. This partitioning is fully described in Section 1.4

## 4.5 180 Day Space

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

The 180 day space requirement is shown in Appendix F.

The archive log grows at the rate of 6.4795KB per New-Order transaction, which was measured from the steady state. The 8 hours log space was 50.59GB at the measured rate and 59.29GB of log space was prepared for the measurement.

For dynamic tables the following steps were followed:

1. The number of rows and number of used blocks were counted on a freshly loaded database.
2. The number of rows were divided by the number of blocks, giving rows per block.
3. The number of rows inserted in 8 hours was estimated equal to tpmC for HISTORY and ORDER, and ten times tpmC for ORDERLINE.
4. The number of rows in step 3 was divided by the number derived in step 2.



5. The number in step 4 was added to the number of used blocks from step 1.
6. The database was queried to show the space allocated exceeded the number in step 5.

## *Clause 5 Related Items*

### 5.1 Throughput

*Measured tpmC must be reported.*

Measured tpmC	17,056.63
Price per tpmC	\$36.24

### 5.2 Response Times

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

An emulation delay of 0.1 second is included in response time and menu time to compensate for browser delay.

**Table 5.1 Response Times**

Type	Average	Maximum	90th %
New-Order	1.18	30.81	2.43
Payment	1.07	30.45	2.27
Order-Status	1.09	29.65	2.28
Interactive Delivery	0.23	8.27	0.16
Deferred Delivery	1.54	20.11	2.72

Stock-Level	1.07	23.97	2.28
Menu	0.21	8.27	0.16

### 5.3 Keying and Think Times

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

**Table 5.2 Keying Times**

Type	Minimum	Average	Maximum
New-Order	18.10	18.11	18.18
Payment	3.04	3.06	3.14
Order-Status	2.05	2.06	2.11
Interactive Delivery	2.05	2.06	2.11
Stock-Level	2.05	2.06	2.12

**Table 5.3 Think Times**

Type	Minimum	Average	Maximum
New-Order	0.02	12.04	119.11
Payment	0.02	12.02	120.04
Order-Status	0.02	10.24	101.75
Interactive Delivery	0.02	5.03	47.87
Stock-Level	0.02	5.05	46.94

### 5.4 Response Time Frequency Distribution Curves and Other Graphs

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

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

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

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

Figure 5.1: New Order Response Time Distribution

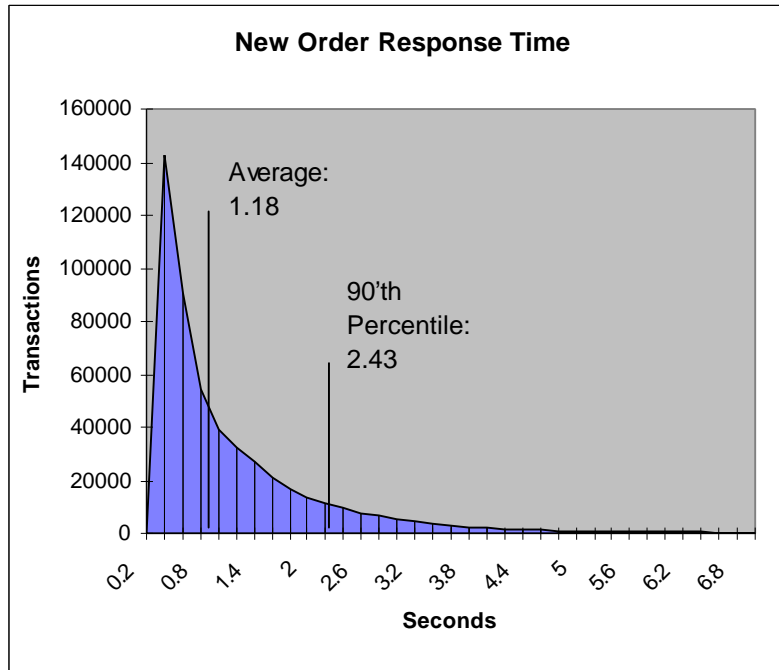


Figure 5.2: Payment Response Time Distribution

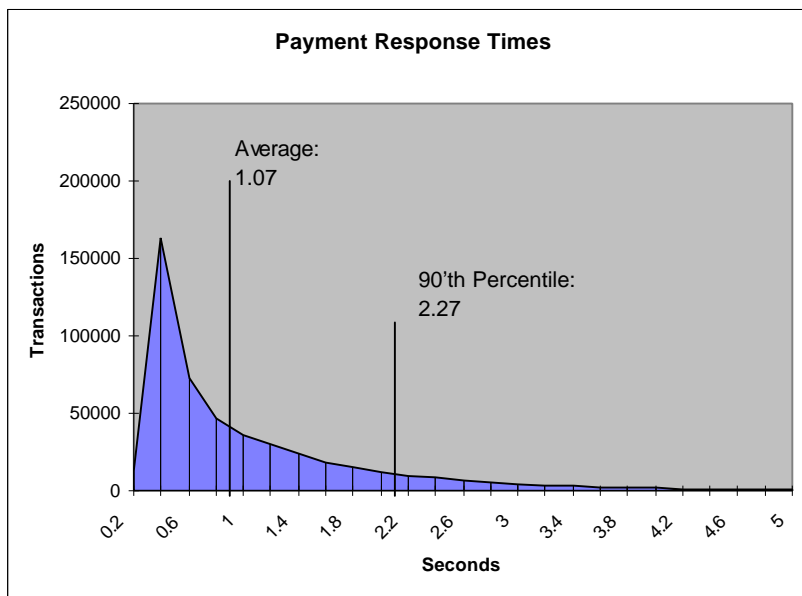


Figure 5.3: Order Status Response Time Distribution

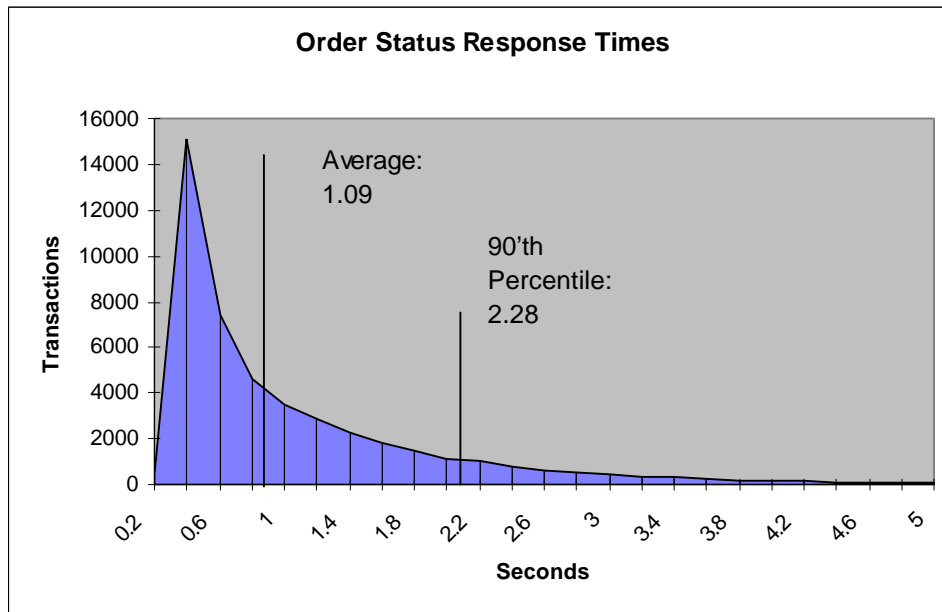


Figure 5.4: Delivery Response Time Distribution

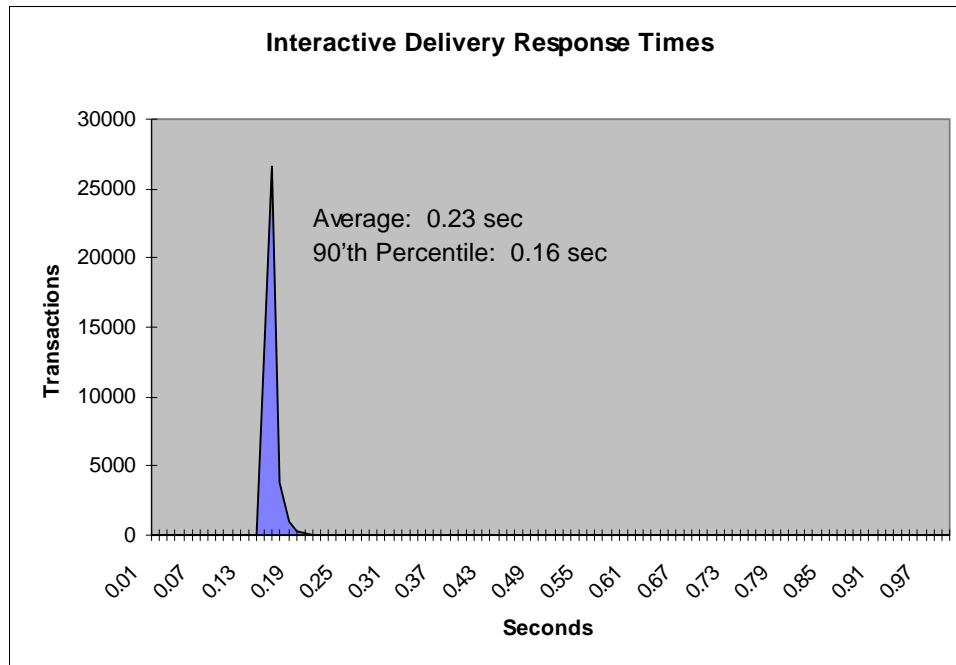


Figure 5.5: Stock Level Response Time Distribution

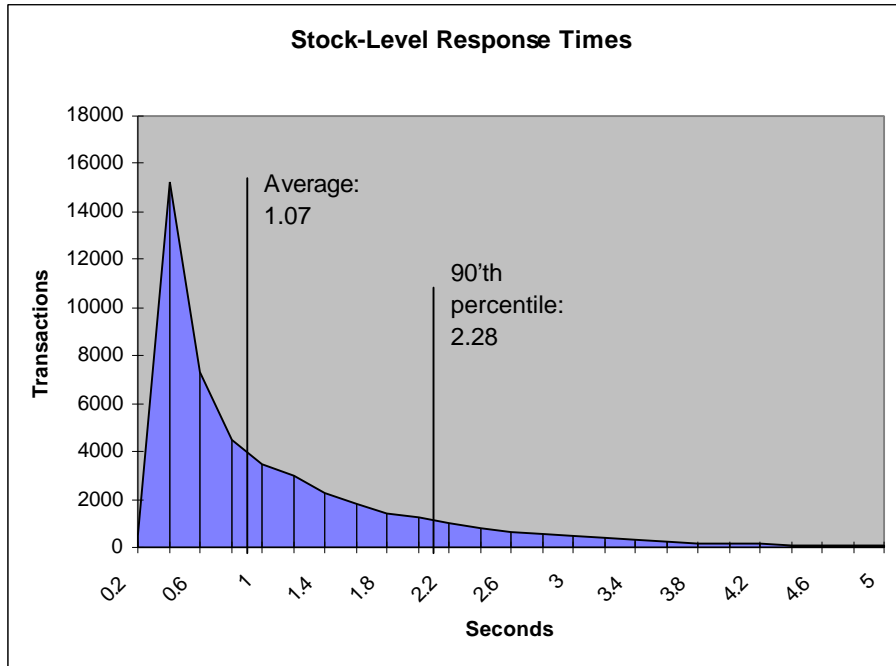


Figure 5.6: New Order Think Time Frequency Distribution

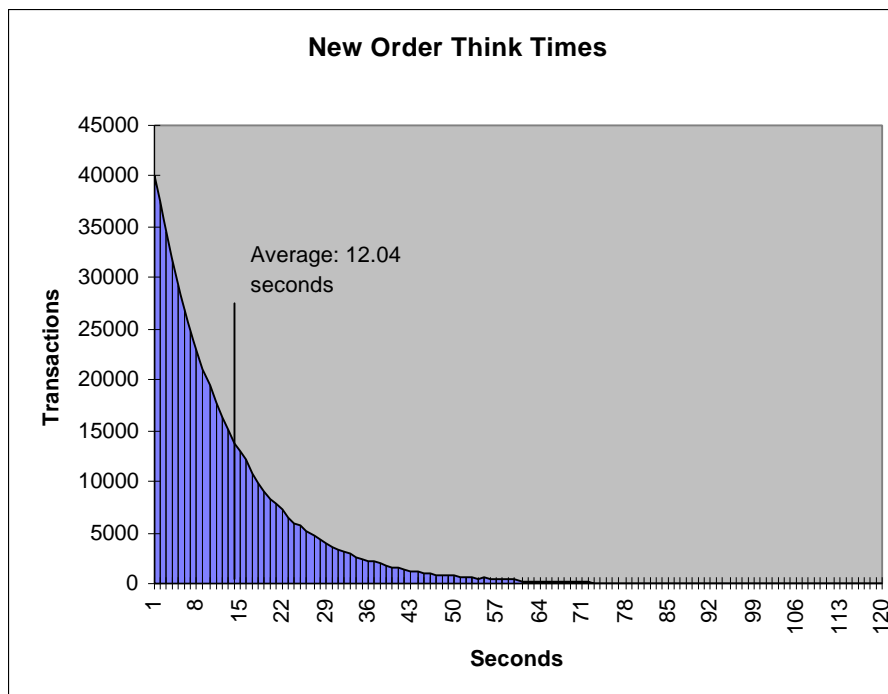


Figure 5.7: Response time versus Throughput

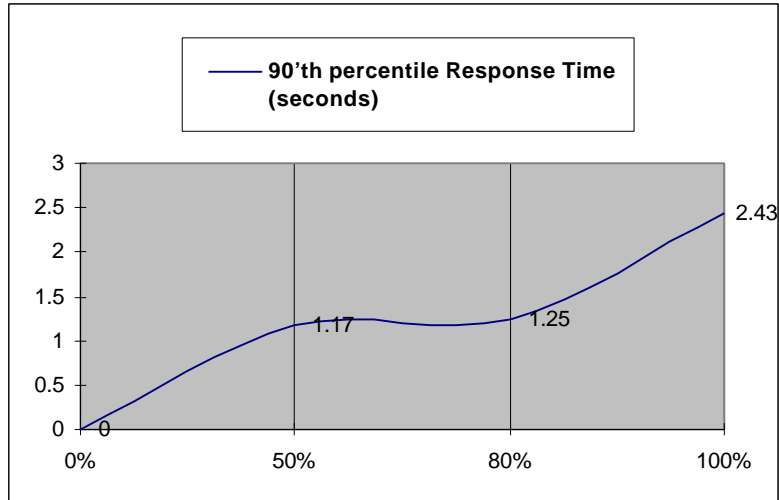
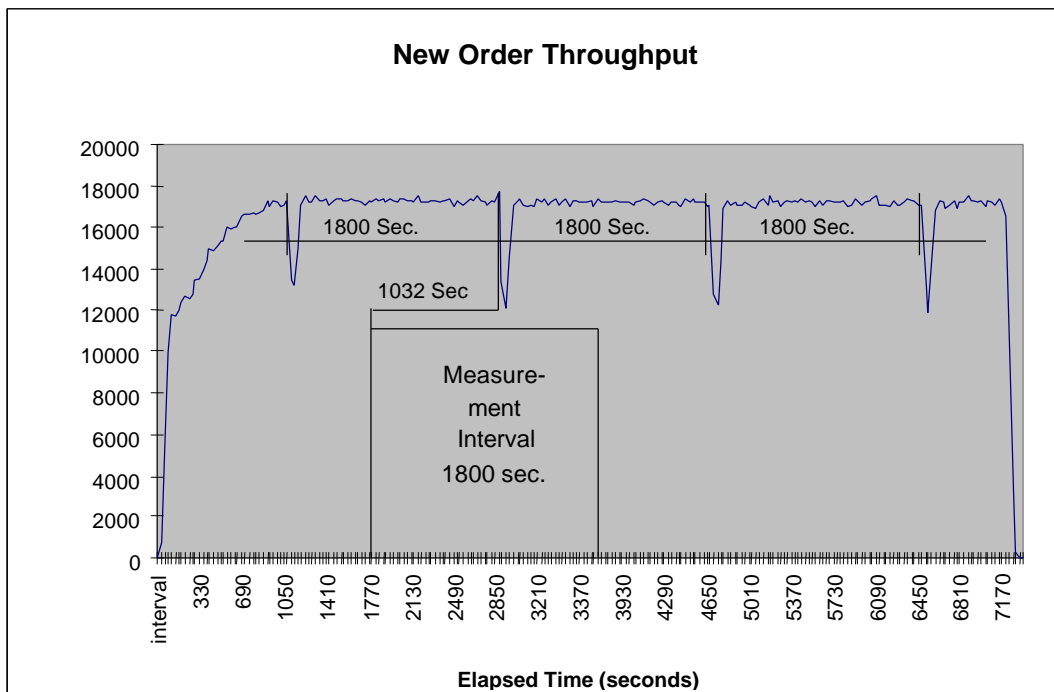


Figure 5.8: New Order Sustained Throughput



## 5.5 Steady State Determination

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

Steady state was determined by examining data reported for each 30-second interval over the duration of the measured run. Steady state was further confirmed by the throughput data collected during the run and graphed in Figure 5.8.

## 5.6 Work Performed During Steady State

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

A SymfoWARE checkpoint forces all dirty pages (pages that have been updated since they were last written) to be physically written to the durable disks. SymfoWARE executes a checkpoint for the following conditions:

1. The amount of recovery data reaches the value specified at the creation of the temporary log, which contains the before images and after images of each transaction. The interval the recovery data takes to reach the specified value depends upon workload. The temporary log is configured by the `thrdblog` command.
2. Upon an explicit `rdbrcp` request.

For each benchmark measurement, after all users are active, the script that issues `rdbrcp` is started manually on the server. The script sleeps and performs another checkpoint every 30 minutes, which is equal to the measurement interval. `Rdbrcp` notifies the time upon the completion of the checkpoint and the start time and end time of all checkpoints are captured to a flat file. The recovery log is configured to be large enough that no other checkpoint will occur during the measurement. The recovery log is marked as reusable after the checkpoint completes. The positioning of the checkpoint is verified to be clear of the guard zones and is depicted on the graph in Figure 5.8.

## 5.7 Reproducibility

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

The measurement procedure was repeated and the throughput verified to be within less than 2% of the reported measurement.

## 5.8 Measurement Period Duration

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

The reported measured interval was exactly 30 minutes long.

## 5.9 Regulation of 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.

The RTE used the UNIX function `rand48()` to control the transaction mix, and could not be adjusted during the run.

## 5.10 Transaction Statistics

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

**Table 5.4: Transaction Statistics**

Statistics		Value
Transaction Mix	New Order	44.71%
	Payment	43.07%
	Order status	4.10%
	Delivery	4.05%
	Stock level	4.07%
New Order	Home warehouse order lines	99.00%
	Remote warehouse order lines	1.00%
	Rolled back transactions	0.98%
	Average items per order	9.99
Payment	Home warehouse	84.93%
	Remote warehouse	15.07%
	Accessed by last name	60.06%
Order Status	Accessed by last name	59.87%
Delivery	Skipped transactions	None

## 5.11 Checkpoint Count and Location

The number of checkpoints in the Measurement Interval, the time in seconds from the start of the Measurement Interval to the first checkpoint, and the Checkpoint Interval must be disclosed.

One checkpoint was recorded before the measured window opened and another checkpoint was started 1032 seconds inside the measured window. Both checkpoints were clear of the guard zone. Checkpoints were started exactly 30 minutes apart.



## Clause 6 Related Items

### 6.1 RTE Descriptions

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

The RTE used was developed at Fujitsu Limited and is proprietary. It consists of an RTE management process as shown in Appendix C, which forks off the individual RTE processes and controls the run. After the run completes, a separate report generator program collects all the log files and generates the final statistics of a run.

Inputs to the RTE include the names of the RTE machine to run, client machines to attach to, the database scale, the ramp-up, measurement and ramp-down times. These come from the configuration script file for the RTE management process.

### 6.2 Emulated Components

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

There were no emulated components in the benchmark configuration other than the emulated users workstations.

### 6.3 Functional Diagrams

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

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

The abstract at the beginning of this report contains detailed diagrams of both the benchmark configuration and the priced configuration, including the driver system.

## 6.4 Networks

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

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

A 100Mbps ethernet LAN connection was used between each client and the server. Fifteen 10Mbps ethernet LAN connections were used between the emulated users and the client machines.

## 6.5 Operator Intervention

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

This configuration does not require any operator intervention to sustain eight hours of the reported throughput, other than beginning the checkpointing process.

## Clause 7 Related Items

### 7.1 System Pricing

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

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

A detailed price list is included in the abstract at the beginning of this report

### 7.2 Availability

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

All hardware and software componenets will be available no later than March 1'st, 1999.

### 7.3 Throughput and Price Performance

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

Maximum Qualified Throughput:	17,056.63
Price per tpmC	<b>\$36.24</b>
Available	March 1 <sup>st</sup> , 1999

### 7.4 Country Specific Pricing

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

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

### 7.5 Usage Pricing

*For any usage pricing, the sponsor must disclose:*

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

SymfoWARE is sold with a 200 user license. There were 158 connections between the clients and server.

## Clause 9 Related Items

### 9.1 Auditors Report

*The auditors name, address, phone number, and a copy of the auditors attestation letter indication compliance must be included in the Full Disclosure Report.*

This implementation of the TPC Benchmark C was audited by Francois Raab of Information Paradigm.

Information Paradigm  
1373 North Franklin St.  
Colorado Springs, CO 80903-2527  
(voice) 719/473-7555  
(fax) 719/473-7554  
<http://www.sizing.com>

### 9.2 Availability of the Full Disclosure Report

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

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

Transaction Processing Performance Council  
c/o Shanley Public Relations  
777 North First Street, Suite 6000  
San Jose, CA 95112-6311  
408/295-8894









# Appendix A: Client Source Code

**File: bench2.h'**

```

/*
   bench2.h : Data structure for message
   send/receive

   Version   Beta 1995/02/24
   Version   Beta2 1995/03/06
   Version   Beta2a 1995/03/14
   Version   Beta3 1995/03/23
   Version   1.0 1998/02/24 for Solaris 2.x
*/

typedef struct {
    int tx_type;
    int C_R;

    int errorpos; /* 1997.03.13 */
    int sqlstate; /* 1997.03.13 */

    short w_id;

    short d_id;

    short o_carrier_id;

    long startsec;
    long startusec;
} delivery_trans;

typedef struct {
    int tx_type;
    int C_R;

    int errorpos; /* 1997.03.13 */
    int sqlstate; /* 1997.03.13 */

    long threshold;
    long low_stock;

    short w_id;

    short d_id;
} stocklvl_trans;

typedef struct {
    int tx_type;
    int C_R;

```

```

    int errorpos; /* 1997.03.13 */
    int sqlstate; /* 1997.03.13 */

    short w_id;
    char w_street_1[21];
    char w_street_2[21];
    char w_city[21];
    char w_state[3];
    char w_zip[10];

    short d_id;
    char d_street_1[21];
    char d_street_2[21];
    char d_city[21];
    char d_state[3];
    char d_zip[10];

/*
   short c_id;*/
    int c_id;
    short c_d_id;
    short c_w_id;
    char c_first[17];
    char c_middle[3];
    char c_last[17];
    char c_street_1[21];
    char c_street_2[21];
    char c_city[21];
    char c_state[3];
    char c_zip[10];
    char c_phone[17];
    double c_since;
    char c_credit[3];
    double c_credit_lim;
/*long c_credit_lim;*/
    long c_discount;
    double c_balance;
/*long c_balance;*/
    char c_data[501];

    double h_date;
    long h_amount;
} payment_trans;

typedef struct {
    int tx_type;
    int C_R;

    int errorpos; /* 1997.03.13 */
    int sqlstate; /* 1997.03.13 */

    short w_id;

    short d_id;

/*
   short c_id;*/
    int c_id;
    char c_first[17];
    char c_middle[3];
    char c_last[17];
    double c_balance;
/*long c_balance;*/

    long o_id;
    double o_entry_d;
    short o_carrier_id;
    short o_ol_cnt;

```

```

    long ol_i_id[15];
    short ol_supply_w_id[15];
    double ol_delivery_d[15];
    short ol_quantity[15];
    long ol_amount[15];
/*double ol_amount[15];*/
} orderstat_trans;

typedef struct {
    int tx_type;
    int C_R;

    int errorpos; /* 1997.03.13 */
    int sqlstate; /* 1997.03.13 */

    char brand_generic[15];
    long i_price[15];
/*double i_price[15];*/
    char i_name[15][25];
    long total_amount;
/*double total_amount;*/

    short w_id;
    long w_tax;

    short d_id;
    long d_tax;

/*
   short c_id;*/
    int c_id;
    char c_last[17];
    char c_credit[3];
    long c_discount;

    long o_id;
    double o_entry_d;
    short o_ol_cnt;

    long ol_i_id[15];
    short ol_supply_w_id[15];
    short ol_quantity[15];
    long ol_amount[15];
/*double ol_amount[15];*/

    long s_quantity[15];
} neworder_trans;

#if 0

typedef struct {
    int tx_type;
    int C_R;
    long threshold;
    long low_stock;
    char brand_generic[15];
    long i_price[15];
/*double i_price[15];*/
    char i_name[15][25];
    long total_amount;
/*double total_amount;*/
    double pl_delivery_d[15];

    short w_id;
    char w_name[11];
    char w_street_1[21];

```



```

char *get_datestr( char *buf)
{
    struct tm    *tm;
    time_t      tim;

    time( &tim);
    tm = localtime( &tim );

    sprintf( buf, "%2d-%2d-%4d",
            tm->tm_mday, tm->tm_mon+1, tm-
            >tm_year+1900);
    return buf;
}

void dummy_delivery( delivery_trans *bp )
{
#ifdef Symfo
    bp->C_R = 1;
#else
    bp->C_R = NOERR;
#endif
    return;
}

void dummy_stocklvl( stocklvl_trans *bp )
{
    int i;

#ifdef Symfo
    bp->C_R = 1;
#else
    bp->C_R = NOERR;
#endif

    do{
        i = rand()%1000;
    } while ( i > bp->threshold);

    bp->low_stock = i;

    return;
}

void dummy_payment( payment_trans *bp )
{
#ifdef Symfo
    bp->C_R = 1;
#else
    bp->C_R = NOERR;
#endif

    // get_datetimestr( bp->h_date );
    // check
    strcpy( bp->w_street_1, "Baker street" );
    strcpy( bp->w_street_2, "221B" );
    strcpy( bp->w_city, "London" );
    strcpy( bp->w_state, "GB" );
    strcpy( bp->w_zip, "88033000" );

    strcpy( bp->d_street_1, "Minato-ku" );
    strcpy( bp->d_street_2, "Azabu 10" );
    strcpy( bp->d_city, "Tokyo" );

    strcpy( bp->d_state, "JP" );
    strcpy( bp->d_zip, "102" );

    bp->c_id = 777;
    strcpy( bp->c_first, "John" );
    strcpy( bp->c_middle, "H" );
    strcpy( bp->c_last, "Wat son" );
    strcpy( bp->c_street_1, "Baker street" );
    strcpy( bp->c_street_2, "221B" );
    strcpy( bp->c_credit, "GC" );

#ifdef Symfo
    bp->c_discount = 20;
#else
    bp->c_discount = (float)0.20;
    // check
#endif

    strcpy( bp->c_city, "London" );
    strcpy( bp->c_state, "GB" );
    strcpy( bp->c_zip, "888" );
    strcpy( bp->c_phone, "1234567890123456" );
    bp->c_balance = 67876;
    bp->c_credit_lim = 77777;
    // get_datestr( bp->c_since );
    // check

    strcpy( bp->c_data,
            "Migyamigyamigyamigyamigya"
            "migyamigyamigya migyamigya" );
    return;
}

void dummy_orderstat( orderstat_trans *bp )
{
    int i, j;

#ifdef Symfo
    bp->C_R = 1;
#else
    bp->C_R = NOERR;
#endif

    bp->c_id = rand()%10000;
    strcpy( bp->c_first, "Robert" );
    strcpy( bp->c_middle, "L" );
    strcpy( bp->c_last, "Fish" );
    bp->c_balance = ( ( rand()*rand()%19999999 ) -
    9999999 ) / (double)100.0;
    /*
    fprintf( stderr, "ordout.c_balance = %12.4f\n", bp-
    >ordout.c_balance );
    bp->c_balance = -1;
    */

    bp->o_id = rand()%10000;
    // get_datetimestr( bp->o_entry_d );
    // check
    bp->o_carrier_id = rand()%100;

    bp->o_ol_cnt = ( rand()%11 )+5;
    j = bp->o_ol_cnt;
    for ( i = 0; i < j; i++ )
    {
        bp->ol_supply_w_id[i] = ( rand()%10 )+1;
        bp->ol_i_id[i] = ( rand()%100000 )+1;
        bp->ol_quantity[i] = ( rand()%99 )+1;
    }

#ifdef Symfo
    bp->ol_amount[i] = (long)((float)rand() *
(float)100); // check
#else
    bp->ol_amount[i] = (float)rand();
    // check
#endif

    // debug2( ( stderr, "rand : %f\n", bp-
    >ordout.ol_amount[i] ) );

    // get_datetimestr( bp->ol_delivery_d[i] );
    // check
    }

    return;
}

void dummy_neworder( neworder_trans *bp )
{
    static int o_id = 3001;
    int i;

#ifdef Symfo
    bp->C_R = 1;
#else
    bp->C_R = NOERR;
#endif

    // *( bp->status ) = '\0';
    // This value is nothing

    strcpy( bp->c_last, "Holmes" );
    strcpy( bp->c_credit, "GC" );
    bp->o_id = o_id++;
    /*
    bp->newout.o_id = ( rand()%100000 )+1;
    */

    // get_datetimestr( bp->o_entry_d ); //
    check

#ifdef Symfo
    bp->c_discount = (long)(rand()%101 ); //
    check
    bp->w_tax = (long)( rand()%2001 ); //
    check
    bp->d_tax = (long)( rand()%2001 ); //
    check
#else
    bp->c_discount = (float)(( rand()%101 )/10000.0);
    // check
    bp->w_tax = (float)(( rand()%2001 )/10000.0);
    // check
    bp->d_tax = (float)(( rand()%2001 )/10000.0);
    // check
#endif

    bp->total_amount = 0;
    // check

    for ( i = 0; i < 15; i++ ){
        if ( bp->ol_supply_w_id[i] == 0 ) {
            break;
        }
    }
}

```

```

        if ( bp->ol_id[i] == -1 ) {
//          strcpy( bp->status, "Item number is
not valid" );
        }

        bp->i_name[i][0] = '\0';
        bp->s_quantity[i] = ( rand()%10)+1;
        bp->brand_generic[i] = ( rand()%26)+'A';

#ifdef Symfo
        bp->i_price[i] = (long)(( rand()%10000 )+1 );
// check
#else
        bp->i_price[i] = (float)((( rand()%10000 )+1
)/100.0); // check
#endif

        bp->ol_amount[i]
            = bp->i_price[i] * bp->ol_quantity[i];
// check
        bp->total_amount += bp->ol_amount[i];
// check
    }
    bp->o_ol_cnt = i;

    return;
}

#endif

//
//
//

#ifdef DBPRT
void oder_dsp(rte_input_data *in_data,
              orderstat_trans *bp, int w_id, int
d_flag)
{
    int i;

    if (d_flag == 0){
        fprintf (test_fp, "----- in data area -----
\n\n");
        fprintf (test_fp, "w_id = %d ", w_id);
        fprintf (test_fp, "d_id = %s ",in_data->D_ID);
        fprintf (test_fp, "c_w_id=%s ",in_data->C_W_ID);
        fprintf (test_fp, "c_d_id=%s ",in_data->C_D_ID);
        fprintf (test_fp, "h_amount=%s \n",in_data->
H_AMOUNT);

        if (in_data->C_ID != 0)
            fprintf (test_fp, "c_id = %s \n",in_data->
C_ID);
        if (in_data->C_LAST != 0)
            fprintf (test_fp, "c_last = %s \n",in_data->
C_LAST);

        fprintf (test_fp, "----- trans buf area -----
\n\n");
        fprintf (test_fp, "w_id = %d ", bp->w_id);
        fprintf (test_fp, "d_id = %d ", bp->d_id);
        fprintf (test_fp, "c_id = %d\n", bp->c_id);
        if ( bp->c_last[0] == '\0' ) {
//          fprintf (test_fp, "byname = %d \n", bp->
ordin.bylastname);
        } else {
//          fprintf (test_fp, "c_last = %s :byname =
%d\n",bp->ordin.c_last,
//          bp->ordin.bylastname);
        }
    }
    else {
        fprintf(test_fp, "----- tr ans buf area (after) ----
\n\n");
        fprintf(test_fp,"w_id = %d ", bp->w_id);

```

```

        fprintf(test_fp,"d_id = %d ", bp->d_id);
        fprintf(test_fp,"c_id = %d\n", bp->c_id);
        fprintf(test_fp,"c_first=%s ", bp->c_first);
        fprintf(test_fp,"c_midl=%s ", bp->c_middle);
        fprintf(test_fp,"c_last =%s\n", bp->c_last);

        fprintf(test_fp,"c_balan=%f ", bp->c_balance);
        fprintf(test_fp,"o_id =%d ", bp->o_id);
        fprintf(test_fp,"o_entry_d=%s\n", bp->o_entry_d );
// check

        if ( bp->o_carrier_id != 0 ) {
            fprintf(test_fp,"o_carrier_id=%d\n", bp->
o_carrier_id);
        }

        for( i = 0; i < bp->o_ol_cnt; i++){

            fprintf(test_fp,"ol_supp=%d ", bp->
ol_supply_w_id[i]);
            fprintf(test_fp,"ol_i_id=%d ", bp->ol_i_id[i]);
            fprintf(test_fp,"ol_quan=%d ", bp->
ol_quantity[i]);
            fprintf(test_fp,"ol_amou=%f\n", bp->
ol_amount[i]);
        }
    }
}

void pay_dsp(rte_input_data *in_data,
             payment_trans *bp, int w_id, int d_flag)
{
    int i;

    if (d_flag == 0){
        fprintf (test_fp, "----- in data area -----
\n\n");

        fprintf (test_fp, "w_id = %d ", w_id);
        fprintf (test_fp, "d_id = %s ",in_data->D_ID);
        fprintf (test_fp, "c_w_id=%s ",in_data->C_W_ID);
        fprintf (test_fp, "c_d_id=%s ",in_data->C_D_ID);
        fprintf (test_fp, "h_amount=%s \n",in_data->
H_AMOUNT);

        if (in_data->C_ID != 0)
            fprintf (test_fp, "c_id = %s \n",in_data->
C_ID);
        if (in_data->C_LAST != 0)
            fprintf (test_fp, "c_last = %s \n",in_data->
C_LAST);

        fprintf (test_fp, "----- trans buf area -----
\n\n");
        fprintf (test_fp, "w_id = %d ", bp->w_id);
        fprintf (test_fp, "d_id = %d ", b p->d_id);
        fprintf (test_fp, "c_id = %d ", bp->c_id);
        if ( bp->c_last[0] == '\0' ) {
//          fprintf (test_fp, "byname = %d \n", bp->
payin.bylastname);
        } else {
//          fprintf (test_fp, "c_last = %s :byname =
%d\n",bp->payin.c_last,
//          bp->payin.bylastname);
        }
    }
    else {
        fprintf (test_fp, "c_w_id=%d ",bp->c_w_id);
        fprintf (test_fp, "c_d_id=%d ",bp->c_d_id);
        fprintf (test_fp, "h_amount=%f \n",bp->h_amount);
    }
}
else {

```

```

        fprintf (test_fp, "----- trans buf area (after) ----
\n\n");
        fprintf(test_fp,"w_id = %d ", bp->w_id);
        fprintf(test_fp,"d_id = %d ", bp->d_id);
        fprintf(test_fp,"c_id = %d\n", bp->c_id);

        fprintf(test_fp,"w_str_1=%s ", bp->w_street_1);
        fprintf(test_fp,"w_str_2=%s\n",bp->w_street_2);
        fprintf(test_fp,"d_str_1=%s ", bp->d_street_1);
        fprintf(test_fp,"d_str_2=%s\n",bp->d_street_2);
        fprintf(test_fp,"w_city=%s ", bp->w_city);
        fprintf(test_fp,"w_state=%s\n",bp->w_state);
        fprintf(test_fp,"d_city=%s ", bp->d_city);
        fprintf(test_fp,"d_state=%s\n",bp->d_state);

        fprintf(test_fp,"c_w_id=%d ", bp->c_w_id);
        fprintf(test_fp,"d_w_id=%d\n", bp->c_d_id);

        fprintf(test_fp,"c_first=%s ", bp->c_first);
        fprintf(test_fp,"c_midl=%s ", bp->c_middle);
        fprintf(test_fp,"c_last =%s\n",bp->c_last);

        fprintf(test_fp,"c_str_1=%s ", bp->c_street_1 );
        fprintf(test_fp,"c_str_2=%s\n",bp->c_street_2);
        fprintf(test_fp,"c_city=%s\n", bp->c_city);
        fprintf(test_fp,"c_credi=%s ", bp->c_credit);
        fprintf(test_fp,"c_state=%s\n", bp->c_state);

        fprintf(test_fp,"c_balan=%f\n", bp->c_balance);

        i = strlen( bp->c_data );
        fprintf(test_fp,"c_date=%s\n", bp->c_data);
    }
}

void sto_dsp(rte_input_data *in_data,
             stocklv_trans *bp, int w_id, int d_id, int d_flag)
{
    if (d_flag == 0){
        fprintf (test_fp, "----- in data area -----
\n\n");

        fprintf(test_fp,"w_id = %d ", w_id);
        fprintf(test_fp,"d_id = %d ", d_id);
        fprintf (test_fp, "threshold= %s \n",in_data->
threshold);

        fprintf (test_fp, "----- trans buf area -----
\n\n");
        fprintf (test_fp, "w_id = %d ", bp->w_id);
        fprintf (test_fp, "d_id = %d ", bp->d_id);
        fprintf (test_fp, "threshold= %d \n",bp->threshold);
    }
    else{
        fprintf (test_fp, "----- trans buf area (after) ----
\n\n");

        fprintf (test_fp, "w_id = %d ", bp->w_id);
        fprintf (test_fp, "d_id = %d ", bp->d_id);
        fprintf (test_fp, "threshold= %d ",bp->threshold);
        fprintf (test_fp, "low_stock= %d \n",bp->
low_stock);
    }
}

void new_dsp(rte_input_data *in_data,
             neworder_trans *bp, int w_id, int d_flag, int cnt)
{
    int i, loop;

```





```

/* Trailer data */
#define h_order3 \
"/PRE>\r\n
<FORM ACTION="%s" METHOD="GET">\r\n
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\r\n
<INPUT TYPE="submit" NAME="b" VALUE="New
order">\
<INPUT TYPE="submit" NAME="b"
VALUE="Payment">\
<INPUT TYPE="submit" NAME="b"
VALUE="Delivery">\
<INPUT TYPE="submit" NAME="b" VALUE="Order
Status">\
<INPUT TYPE="submit" NAME="b" VALUE="Stock
Level">\
<INPUT TYPE="submit" NAME="b"
VALUE="Quit">\
</FORM></BODY></HTML>"

/* Offset to field which should set data */
int orderp[] = {
0x0B, 0x1C,
0x2a, 0x37, 0x49, 0x4c,
0x6c,
0x87, 0x9e, 0xc4,
0x105, 0x110, 0x11b, 0x123, 0x131}; /* offset 0x39 */

File: paypage.h
-----
paypage.h
data of Payment transaction result screen (HTML
form)
-----
- */

/* Header data */
#define h_pay1 "\
<HTML><HEAD><TITLE>TPC-
WINDOW</TITLE></HEAD><BODY>\r\n
<CENTER>Payment<BR></CENTER><font
size=4>\r\n<PRE>"

/* Screen data */
#define h_pay2 "\
Date: - - : : \r\n
\r\n
Warehouse: District: \r\n
"

#define h_pay4 "\
\r\n
\r\n
Customer: Cust-Warehouse: Cust-District:
\r\n
Name: Since: - - \r\n"

/*
Credit: \r\n
%%Disc: . \r\n
*/

#define h_pay5 "\
Phone: - - -

\r\n
\r\n

Amount Paid: $ . New Cust-Balance: $
. \r\n
Credit Limit: $ . \r\n
\r\n
Cust-Data: "
/*
Cust-Data: \r\n
\r\n
\r\n
\r\n
*/

/* Trailer data */
#define h_pay3 "\
/PRE>\
<FORM ACTION="%s" METHOD="GET">\r\n
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\r\n
<INPUT TYPE="submit" NAME="b" VALUE="New
order">\
<INPUT TYPE="submit" NAME="b"
VALUE="Payment">\
<INPUT TYPE="submit" NAME="b"
VALUE="Delivery">\
<INPUT TYPE="submit" NAME="b" VALUE="Order
Status">\
<INPUT TYPE="submit" NAME="b" VALUE="Stock
Level">\
<INPUT TYPE="submit" NAME="b"
VALUE="Quit">\
</FORM></BODY></HTML>"

/* Offset to field which should set data */
int payp[] = {
0x06,
0x29, 0x51,
0x55, 0x7e,
0x94, 0xbd,
0xd3, 0xe8, 0xeb, 0xf1, 0xfc, 0x111, 0x114, 0x11a,
0x12c, 0x142, 0x157,
0x163, 0x174, 0x177, 0x194, /* 18 - 21 */
0x1a8, 0x1d9, /* 22, 23 */
0x1e5, 0x216, /* 24, 25 */
0x225, 0x23a, 0x23d, 0x256,
0x284, 0x2a4,
0x2c5,
0x2e1, /* offset 0x3e */
0x320,
0x35f,
0x39e};

File: Resource.h
//{{NO_DEPENDENCIES}}
// Microsoft Visual C++ generated include file.
// Used by tpapl.rc
//

#define IDS_SERVER 102

#define _APS_NEXT_RESOURCE_VALUE 103
#define _APS_NEXT_CONTROL_VALUE 103
#define _APS_NEXT_SYMED_VALUE 103
#define _APS_NEXT_COMMAND_VALUE 32768

File: Stdafx.cpp

stdafx.cpp :
// tpapl.pch :
// stdafx.obj :

#include "stdafx.h"

File: Stdafx.h
#if
!defined(AFX_STDAFX_H__13B36D5C_C1F8_11D1_8
326_00A0C906407A__INCLUDED_)
#define
AFX_STDAFX_H__13B36D5C_C1F8_11D1_8326_00A
0C906407A__INCLUDED_

// stdafx.h :
//
//
//
#include <afx.h>
#include <afxwin.h>
#include <afxmt.h> //
#include <afxext.h>
#include <afxapi.h>

//{{AFX_INSERT_LOCATION}}
// Microsoft Developer Studio

#endif //

!defined(AFX_STDAFX_H__13B36D5C_C1F8_11D1_8
326_00A0C906407A__INCLUDED_)

File: stpage.h
-----
stpage.h
data of Stock Level transaction result screen (HTML
form)
-----
- */

/* Header data */
#define h_stock1 "\
<HTML><HEAD><TITLE>TPC-
WINDOW</TITLE></HEAD><BODY>\
<CENTER>Stock-Level<BR></CENTER>\
<font size=4>\r\n<PRE>"

/* Screen data */
#define h_stock2 "\
Warehouse: District: \r\n
\r\n
Stock Level Threshold: \r\n
\r\n
low stock: \r\n
\r\n\r\n\r\n\r\n\r\n\r\n\r\n\r\n\r\n\r\n\r\n\r\n\r\n\r\n"

/* Trailer data */
#define h_stock3 "\
/PRE>\
<FORM ACTION="%s" METHOD="GET">\r\n
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\r\n

```

```
<INPUT TYPE="submit" NAME="b" VALUE="New
order">\
<INPUT TYPE="submit" NAME="b"
VALUE="Payment">\
<INPUT TYPE="submit" NAME="b"
VALUE="Delivery">\
<INPUT TYPE="submit" NAME="b" VALUE="Order
Status">\
<INPUT TYPE="submit" NAME="b" VALUE="Stock
Level">\
<INPUT TYPE="submit" NAME="b"
VALUE="Quit">\
</FORM></BODY></HTML>\n"
```

```
/* Offset to field which should set data */
int stockp[] = {
0x0B, 0x1C,
0x39,
0x4a};
```

**File: tpapl.cpp**

```
//
// TPC-C Client Application Program Source
//
// tpapl Extension
//
#include "stdafx.h"
#include "tpapl.h"

#include "tpccis.h"
#include "tpcc_info.h"
#include "trans.h"
#include "bench2.h"
#include "dbgprt.h"

// HTML-Page Data
#include "tpcweb.h"
#include "tpcinweb.h"
#include "menupage.h"
#include "newpage.h"
#include "paypage.h"
#include "odrpge.h"
#include "delpage.h"
#include "stpage.h"

#include "ATMI.H" // TP-BASE include File

#ifdef USE_FML
# include "fml.h"
# include "fldtbl.h" // Create by mkfldhdr cmdnd.
#endif

char *point;
FILE *envget;
FILE *errfile;

#include "dmy.h" // For debug

static TPINIT *tpinf;
static DWORD TLSsTpInitedKey;
static int ThrTPlnit();

//
// The date data is converted. (The time data is not
contained.)
```

```
// Numeric data is converted into character string data.
//
void convert_time( char *save_p, double time )
{
    struct tm tim;
    time_t tt = ( time_t )time;

    tim = *( localtime( &tt ) );

    sprintf( save_p, "%02d-%02d-%04d
%02d:%02d:%02d",
            tim.tm_mday, tim.tm_mon+1, tim.tm_year
+ 1900,
            tim.tm_hour, tim.tm_min, tim.tm_sec );
}

//
// The date data is converted. (The time data is
contained.)
// Numeric data is converted into character string data.
//
void convert_date( char *save_p, double time )
{
    struct tm tim;
    time_t tt = ( time_t )time;

    tim = *( localtime( &tt ) );

    sprintf( save_p, "%02d-%02d-%04d",
            tim.tm_mday, tim.tm_mon+1, tim.tm_year
+ 1900 );
}

/*
Thread tpinit()
Thread tpinit() TLS

tpinit()
tpinit()

Tpinit() is executed with each thread.
The flag in the TLS region is checked, and whether
corresponding thread has executed
function tpinit is judged.
When function tpinit is unexecution, the flag is not
set.
When function tpinit is executed, the flag is set.
*/
static int ThrTPlnit() {

static int num_tpinit=0;
static int x=1;
static int once=0;
static CRITICAL_SECTION TpCriticalSection;
int lasterr, iRc, TpRc;
int retry = 0;
BOOL Success = FALSE;

// Whether the key data is set is checked.
if(!TlsGetValue(TLSsTpInitedKey)) {

// If the key data is not set
FILE *fp;
fp = fopen("c:\tuxlog\tpapl.log", "ab");

if (once) {

InitializeCriticalSection(&TpCriticalSection);
```

```
once=1;

fprintf(fp, "- Start -----
\n");
}

#ifdef DBPRT
fprintf(fp, " In ThrTPlnit Thread %d * \n",
GetCurrentThreadId());
#endif
fclose(fp);

while ( retry < 10 ) {

EnterCriticalSection(&TpCriticalSection);

// Execute tpalloc()
if(tpinf == NULL) {

if ((tpinf = ( TPINIT
*)tpalloc("TPINIT", NULL, sizeof(TPINIT))) == NULL) {

LeaveCriticalSection(&TpCriticalSection);
TpRc = tperrno;

{
FILE *fp;
fp =
fopen("c:\tuxlog\tpapl.log", "ab");
fprintf(fp, "> ThrTPlnit:%d :
tpalloc of tpinit failed: %d : %s\r\n",
GetCurrentThreadId(),
TpRc, tpstrerror(TpRc));
fclose(fp);
}
retry++;
continue;

tpinf-
>flags|=TPMULTICONTEXTS;
}

// Execute tpinit()
iRc = tpinit(tpinf);
TpRc = tperrno;

// check return code
if (iRc < 0) {
// if tpinit abnormal end

LeaveCriticalSection(&TpCriticalSection);
retry++;
lasterr = GetLastError();
}
else {
// if tpinit() normal end
Success = TRUE;

LeaveCriticalSection(&TpCriticalSection);
break;
}
Sleep(5); // Relinquish thread
timeslice
} // retry the tpinit if it failed the first time

// if tpinit() abnormal end
TPC Benchmark C Full Disclosure
```



```

    if ( Success == FALSE ) {
    {
    char ebuf[128];
    sprintf(ebuf,
    "False : ThrTpnit %d : Cannot tpinit
after %d tries iRc = %d LastErr = %d \r\n",
    GetCurrentThreadId(), 1, iRc, lasterr);

    FILE *fp;
    fp = fopen("c:\\tuxlog\\tpapl.log",
"ab");
    fprintf(fp, "%s\n", ebuf);
    fclose(fp);
    }
    return -1;
    }

    // if tpinit() normal end
    if ( Success == TRUE ) {

        if ( retry > 0 ) {
        char ebuf[128];
        sprintf(ebuf,
        "Success : ThrTpnit %d : Cannot
tpinit after %d tries iRc = %d LastErr = %d\r\n",
        GetCurrentThreadId(), 10, iRc,
lasterr);
        sprintf(ebuf,
        "Success : ThrTpnit Thread %d
Success retry count %d with LastErr = %d \r\n",
        GetCurrentThreadId(), retry,
lasterr);

        FILE *fp;
        fp = fopen("c:\\tuxlog\\tpapl.log",
"ab");
        fprintf(fp, "%s\n", ebuf);
        fclose(fp);
        }

        if ( (
iRc=TLsSetValue(TLSIsTpnitedKey,&x)) == 0 ) { //?
        {
            FILE *fp;
            fp =
fopen("c:\\tuxlog\\tpapl.log", "ab");

            fprintf(fp, "> ThrTpnit %d :
TLsSetValue Failed iRc: %d \r\n",
            GetCurrentThreadId(),
iRc);
            fclose(fp);
        }
        }
    }
    }
    else {
        // If the key data is set
#ifdef DBORT
        FILE *fp;
        fp = fopen("c:\\tuxlog\\tpapl.log", "ab");
        fprintf(fp, "ThrTpnit Thread %d already
tpinited * (%x) \r\n",
            GetCurrentThreadId(), tpinf->flags);
        fclose(fp);
#endif
    }
}

```

```

    return 0;
}

/*
    check HTML form
*/

int checkHTMLform( char *str, char *buffer)
{
    int length;
    int cnt1;
    int cnt2 = 0;
    int newlength = 0;

    length = strlen( str );

    for (cnt1 = 0; cnt1 < length; cnt1++){

        if ( *(str + cnt1) == '&' ){
            *(buffer + cnt2) = '&'; cnt2++;
            *(buffer + cnt2) = 'a'; cnt2++;
            *(buffer + cnt2) = 'm'; cnt2++;
            *(buffer + cnt2) = 'p'; cnt2++;
            *(buffer + cnt2) = ';'; cnt2++;
        }
        else if ( *(str + cnt1) == '<' ) {
            *(buffer + cnt2) = '&'; cnt2++;
            *(buffer + cnt2) = 'l'; cnt2++;
            *(buffer + cnt2) = 't'; cnt2++;
            *(buffer + cnt2) = ';'; cnt2++;
        }
        else if ( *(str + cnt1) == '>' ) {
            *(buffer + cnt2) = '&'; cnt2++;
            *(buffer + cnt2) = 'g'; cnt2++;
            *(buffer + cnt2) = 't'; cnt2++;
            *(buffer + cnt2) = ';'; cnt2++;
        }
        else if ( *(str + cnt1) == '"' ) {
            *(buffer + cnt2) = '&'; cnt2++;
            *(buffer + cnt2) = 'q'; cnt2++;
            *(buffer + cnt2) = 'u'; cnt2++;
            *(buffer + cnt2) = 'a'; cnt2++;
            *(buffer + cnt2) = 't'; cnt2++;
            *(buffer + cnt2) = ';'; cnt2++;
        }
        else {
            *(buffer + cnt2) = *(str + cnt1);
            cnt2++;
        }
    }

    *(buffer + cnt2) = 0;
    return ( strlen ( buffer ) );
}

/*
    alp2str : Outputs a string into the memory space
    supplied.

    field = the destination field
    field_size = number of characters to output
    string = alpha string to be displayed
    */
void alp2str(char *str, int len, char *alp)

```

```

{
    int cnt;

    cnt = strlen (alp);
    strncpy (str, alp, len); /* copy to destination area */

    /* len
    */
    /* If not coming up to the specified length then set
    the blank. */
    if ( len - cnt > 0 )
        memset ( &str[cnt], ' ', len - cnt);
}

/*
    int2str : Converts an integer value to a string of a
    specified length and
    outputs the string to the memory buffer supplied.

    field = the destination field
    field_size = number of characters to output
    value = integer to be displayed
    */
void int2str(char *str, int len, int num)
{
    int cnt;

    for (cnt = len - 1; cnt >= 0 ; cnt--){

        str[cnt] = (num % 10) + '0';
        num /= 10;
    }

    for (cnt = 0; cnt < len-1; cnt++){

        if (str[cnt] == '0')
            str[cnt] = ' ';
        else
            return;
    }
}

/*
    int3str : Converts an integer value to a string of a
    specified length and
    outputs the string to the memory buffer supplied.

    field = the destination field
    field_size = number of characters to output
    value = integer to be displayed
    */
void int3str(char *str, int len, int num)
{
    int cnt;

    for (cnt = len - 1; cnt >= 0 ; cnt--){

        str[cnt] = (num % 10) + '0';
        num /= 10;
    }
}

/*
    date2str : Outputs a date in the supplied buffer in the
    following format:
    DD-MM-YYYY
    */

```

```

field = the destination field
date = date to be converted and displayed
*/
void date2str(char *str, char *time)
{
    int year, month, day;

#ifdef DBPRT
    fprintf (test_fp, "date2: %s\n", time);
#endif
    sscanf( time, "%d-%d-%d", &day, &month, &year );

    int3str (str, 2, day);
    str[2] = '-';
    int3str (&str[3], 2, month);
    str[5] = '-';
    int3str (&str[6], 4, year);
}

/*
time2str:
Outputs a date and time in the supplied buffer in the
following format:
DD-MM-YYYY hh:mm:ss

field = the destination field
date = date and time to be converted and displayed
*/
void time2str (char *str, char *time)
{
    int year, month, day, hour, min, sec;

#ifdef DBPRT
    fprintf (test_fp, "time2: %s\n", time);
#endif
    sscanf( time, "%d-%d-%d %d:%d:%d",
            &day, &month, &year, &hour, &min, &sec );

    int3str (str, 2, day);
    str[2] = '-';

    int3str (&str[3], 2, month);
    str[5] = '-';

    int3str (&str[6], 4, year);
    str[10] = '-';

    int3str (&str[11], 2, hour);
    str[13] = '-';

    int3str (&str[14], 2, min);
    str[16] = '-';

    int3str (&str[17], 2, sec);
}

/*
dec2str:
Converts a double precision floating point value to a
string of
a specified length and outputs the string to the
memory buffer supplied.
This routine assumes the following restrictions apply:
Precision is fixed at 2 places to the right of the
decimal point.
No string length will be less than 4.

```

```

field = the destination field
field_size = number of characters to output
value = floating point number to be displayed
*/
void dec2str(char *str, int len, double num)
{
    int dec, sign, i, cnt;
    char *string;

    string = ecvt(num, len-1, &dec, &sign);

    /* dec =          ,sign = 0, 1,string=
*/

    if ( dec > 0 ) {
        /* if the integer part is not zero .. Exsample
:mum data is 1234.56 */
        cnt = (len - 3) - dec;

        /*          : "0012" -> " 12" */
        /* If the high-order digit is zero , zero is changed at
the blank */
        for (i = 0; i < cnt; i++){
            /* pad with blank in the high part of the
number */
            str[i] = ' ';
        }

        /* The high-order digit set to the output
area: */
        for (; i < (len - 3); i++){
            str[i] = *(string++);
        }
    }
    else {
        /* If the integer part is zero ... Exsample:
num data is 0.12 */
        cnt = len - 4;

        for (i = 0; i < cnt; i++){
            /* pad with blank in the high part of
the number */
            str[i] = ' ';
        }
        str[i++] = '0';
    }

    str[i++] = '.';

    for (; dec < 0 && i < len; dec++, i++){
        /* pad with 0's in the high part of the
fraction */
        str[i] = '0';
    }

    for (; i < len; i++){
        /* copy the decimal portion (2 places) */
        str[i] = *(string++);
    }
}

/*
sigdec2str:
Converts a double precision floating point value to a
string of

```

```

a specified length and outputs the string to the
supplied buffer.
If the value is negative, the first character will be a
minus sign (-).

field = the destination field
field_size = number of characters to output
value = floating point number to be displayed
*/
void sigdec2str(char *str, int len, double num)
{
    if (num >= 0.0) {
        str[0] = '+';
        dec2str (&str[1], len - 1, num);
    }
    else {
        str[0] = '-';
        dec2str (&str[1], len - 1, -num);
    }
}

/*
zip2str:
Outputs a zipcode in the supplied buffer in the
following format:
XXXXX-XXXX

str = the destination field
zip = the zipcode to be output
*/
void zip2str (char *str, char *zip)
{
    alp2str (str, 5, zip);
    str[5] = '-';
    alp2str (&str[6], 4, &zip[5]);
}

/*
phone2str:
Outputs a phone number in the supplied buffer in the
following format:
XXXXXX-XXX-XXX-XXXX

str = the destination field
phone = the phone number to be output
*/
void phone2str(char *str, char *phone)
{
    alp2str (str, 6, phone);
    str[6] = '-';

    alp2str (&str[7], 3, &phone[6]);
    str[10] = '-';

    alp2str (&str[11], 3, &phone[9]);
    str[14] = '-';

    alp2str (&str[15], 4, &phone[12]);
}

#define numcheck(num) ( 0x30 <= num && num <=
0x39 ) /* 0 - 9 */
#define alpcheck(num) ( 0x41 <= num && num <= 0x5a
) /* A - Z */

/*

```

str2int :  
takes a string, makes sure it's not too long, and ensures that it represents an integer.  
If it does, the corresponding int value is returned.

-3: there is not string data.  
-2: find not character data.  
-1: string data is too many long  
\*/

```
int str2int(char *str, int field_len) {
    int x;

    if(str == 0 || !(x = strlen(str))) return -3;
    if(x > field_len){
        if (strchr (str, '%') != 0) /* 98.8.3 :
            return -2;
        else
            return -1;
    }
    else{
        for( ; x : x--){
            if (!numcheck(str[x-1])) {
                return -2;
            }
        }
    }
    return atoi(str);
}
```

\*/  
str2short :  
takes a string, makes sure it's not too long, and ensures that it represents an integer.  
If it does, the corresponding short value is returned.

-3: there is not string data.  
-2: find not character data.  
-1: string data is too many long  
\*/

```
short str2short(char *str, int field_len) {
    int x;

    if(str == 0 || !(x = strlen(str))) return -3;
    if(x > field_len){
        if (strchr (str, '%') != 0) /* 98.8.3 :
            return -2;
        else
            return -1;
    }
    else {
        for( ; x : x--){
            if (!numcheck(str[x-1]))
                return -2;
        }
    }
    x = atoi(str);
    return (short)x;
}
```

\*/  
str2str :  
makes sure the string exists and isn't too long.

-1: string data is too many long  
-2: find not figure data.  
0: there is not string data.  
1: normal end  
\*/

```
int str2str(char *str, int field_len) {
    int x;

    if (str == 0 || !(x = strlen (str))) return 0;

    if(x > field_len ) {
        if ( strchr (str, '%') != 0) /* 98.8.3 :
            return -2;
        else
            return -1;
    }
    else {
        for( ; x : x--){
            if (!alpcheck(str[x-1]))
                return -2;
        }
    }
    return 1;
}
```

\*/  
str2dbl :  
takes a string, makes sure it's not too long, and makes sure that it represents a floating point number.  
If so, delete the decimal point.  
As a result, the value is increased hundredfold.  
this function is returned integer value.

!! This function use Payment transaction only.

-3: there is not string data.  
-2: find not character data.  
-1: string data is too many long  
\*/

```
int str2dbl(char *str, int field_len) {
    int x, len, cnt;
    char NUM[7];

    char pointf = 0;
    int fcnt = 2; /* */

    if(str == 0 || !(x = strlen(str))) return -3;
    len = x;

    if(x > field_len){
        if (strchr (str, '%') != 0) /* 98.8.3 :
            return -2;
        else
            return -1;
    }
    else{
        /* check string data */
        for(;x:x--){
            if(numcheck(str[x-1]));
            else if((str[x-1] == '.') && ((len - x) < 3));
            else if((str[x-1] == '-') && (x == 1));
        }
    }
}
```

```
    else if((str[x-1] == '+') && (x == 1));
    else return -2;
}
}
```

\*/ delete the decimal point. As a result, do hundredfold the value.\*/

```
for (cnt = 0, x = 0; x < len; x++){

    if ( str[x] == '.' ) {
        /* find the decimal point. set point flag.*/
        pointf = 1;
    } else {
        /* set character to work buffer.*/
        NUM[cnt] = str[x]; cnt++;

        /* The figure below the decimal point was detected */
        if ( pointf == 1 ) {fcnt--;}
    }

    if ( pointf == 1 && fcnt > 0 ){
        /*There was no figure below the decimal point or only one digit was found.*/
        for ( ; fcnt > 0 ; fcnt-- ) {
            NUM[cnt++] = '0';
        }
    }
}
```

\*/  
else if ( pointf == 0 ) {  
/\* There is no decimal point.:  
NUM[cnt++] = '0'; NUM[cnt++] = '0';  
}

NUM[cnt] = 0;  
return (atoi(NUM));  
}

\*/  
struct\_init :  
init\_ptrs sets everything in the annoyingly long raw\_form\_data structure to zero.  
\*/

```
void struct_init (rte_input_data *in_data) {

    int cnt = 0;

    in_data->button = 0;
    in_data->cookie = 0;
    in_data->form = 0;
    in_data->O_CARRIER_ID = 0;
    in_data->threshold = 0;
    in_data->D_ID = 0;
    in_data->C_ID = 0;
    in_data->C_W_ID = 0;
    in_data->C_D_ID = 0;
    in_data->C_LAST = 0;
    in_data->H_AMOUNT = 0;

    for (cnt = 0; cnt < 15; cnt++)
        in_data->OL_SUPPLY_W_ID[cnt] = 0;

    for (cnt = 0; cnt < 15; cnt++)
```

```

in_data->OL_ID[cnt] = 0;

for (cnt = 0; cnt < 15; cnt++)
    in_data->OL_QUANTITY[cnt] = 0;
}

/*
para_split :

    (QueryString)

    :                NULL

    NULL

Split divides up a string based on the first instance of
a specified
delimiter ('sp'). The first instance of 'sp' is converted
to a NULL
and the address of the first character of the second
half is returned.
Thus the user has the first half (which he passed in
and still has) and
the second half (which was returned) with a NULL
between them. Yay.
(Yes, strtok does this, sort of, but I can't nest strtok
calls.)
*/

char *para_split(char *para, char delimita) {

    char *point;

    /* The address of the delimitation character is
    calculated */
    /*          */
    if ((point = strchr (para, delimita)) == NULL)
        return (char *)0;

    /* The delimitation character is replaced with NULL*/
    *point = '\0';          /*      NULL      */

    /* The first position of the analyzed variable is
    returned.*/
    return (point + 1);    /*          */
}

/*
anly_para :
QueryString

:

Gets the query string and finds every variable=value
pair contained
within it. For every pair, it runs the variable name
through a really
big compound switch statement that matches for
specific variables we
want to catch. When we find a known variable name,
we stick a pointer
to its corresponding value into the appropriate
member of 'ptrs.'

query - a 1024 byte buffer that contains the query
string.
ptrs - a raw_form_data structure to hold pointers.
*/

```

```

int anly_para (char *para, rte_input_data *in_data) {
    char *val, *rest;
    int num = 0;

    if(!para) return 0;

    while(para) {

        rest = para_split(para, '&'); /* next parameta
point */
        val = para_split(para, '='); /* now value
point */

        switch(para[0]) {
        case 'c':
            in_data->cookie = val;        break;

        case 'b':
            in_data->button = val;        break;

        case 'f':
            in_data->form = val;         break;

        case 't':
            in_data->threshold = val;    break;

        case 'D':
            in_data->D_ID = val;         break;

        case 'H':
            in_data->H_AMOUNT = val;     break;

        case 'C':
            switch(para[1]) {
            case 'I':
                in_data->C_ID = val;     break;

            case 'W':
                in_data->C_W_ID = val;   break;

            case 'L':
                in_data->C_LAST = val;   break;

            case 'D':
                in_data->C_D_ID = val;   break;
            }
            break;

        case 'O':
            switch(para[1]) {
            case 'C':
                in_data->O_CARRIER_ID =
val;        break;

            case 'S':
                switch(para[2]) {
                case '0':
                    if (para[3] >= 0x31 &&
para[3] <= 0x39){
                        num = (int)(para[3]
- 0x30);
                        if (strlen(val) != 0 )
in_data-
>OL_SUPPLY_W_ID[num - 1] = val;
                    }
                    break;
                }
            }
        }
    }
}

```

```

        case '1':
            if (para[3] >= 0x30 &&
para[3] <= 0x35 ){
                num = (int)(para[3]
- 0x30) + 10;
                if (strlen(val) != 0 )
in_data-
>OL_SUPPLY_W_ID[num - 1] = val;
            }
            break;
        }
        break;
    }
}

        case 'I':
            switch(para[2]) {
            case '0':
                if (para[3] >= 0x31 &&
para[3] <= 0x39 ){
                    num = (int)(para[3]
- 0x30);
                    if (strlen(val) != 0 )
in_data-
>OL_ID[num - 1] = val;
                }
                break;
            }
            break;
        }
        case '1':
            if (para[3] >= 0x30 &&
para[3] <= 0x35 ){
                num = (int)(para[3]
- 0x30) + 10;
                if (strlen(val) != 0 )
in_data-
>OL_ID[num - 1] = val;
            }
            break;
        }
        break;
    }
}

        case 'O':
            switch(para[2]) {
            case '0':
                if (para[3] >= 0x31 &&
para[3] <= 0x39 ){
                    num = (int)(para[3]
- 0x30);
                    if (strlen(val) != 0 )
in_data-
>OL_QUANTITY[num - 1] = val;
                }
                break;
            }
            break;
        }
        case '1':
            if (para[3] >= 0x30 &&
para[3] <= 0x35 ){
                num = (int)(para[3]
- 0x30) + 10;
                if (strlen(val) != 0 )
in_data-
>OL_QUANTITY[num - 1] = val;
            }
            break;
        }
        break;
    }
}
}

```

```

        para = rest;
    }

    if (in_data->cookie != 0)
        return(atoi (in_data->cookie));
    else
        return(0);
}

/* Error message list : these are notified from CLINET
to RTE */
/* 98.8.3 : */
char errstrings[23][166] = {
"The function you selected doesn't exist.\r\n"
"Don't enter URLs manually!\r\n%s",
/* 0 */

"You seem to have responded to a form that doesn't
exist.\r\n"
"Don't enter URLs manually!\r\n%s",
/* 1 */

"The District ID you entered isn't valid.\r\n%s\r\n"
"It must be an integer in the range 1 to 10.\r\n",
/* 2 */

"The threshold value you entered isn't valid.\r\n%s\r\n"
"It must be an integer in the range 10 to 20.\r\n",
/* 3 */

"The terminal number you entered isn't valid.\r\n%s\r\n"
"It must be an integer in the range 1 to %d.\r\n",
/* 4 */

"The Carrier ID you entered isn't valid.\r\n%s\r\n"
"It must be an integer in the range 1 to 10.\r\n",
/* 5 */

"The Customer ID you entered isn't valid.\r\n%s\r\n"
"It must be an integer of 4 or fewer digits.\r\n",
//It must be an integer in the 1 to 3000.\r\n",
/* 6 */

"The Customer Last Name you entered isn't
valid.\r\n%s\r\n"
"It must be a string shorter than 16 characters.\r\n",
/* 7 */

"The Payment Amount you entered isn't
valid.\r\n%s\r\n"
"It must be a dollar amount, without the dollar sign,"
" between $1.00 and $5000.00.\r\n",
/* 8 */

"The Customer Warehouse ID you entered isn't
valid.\r\n%s\r\n"
"It must be an integer in the range 1 to %d.\r\n",
/* 9 */

"The Customer District ID you entered isn't
valid.\r\n%s\r\n"
"It must be an integer in the 1 to 10.\r\n",
/* 10 */

"You must enter either a Customer ID or a Customer
Last Name.\r\n"
"You left both fields blank.\r\n%s",
/* 11 */

```

```

"The Warehouse ID you entered isn't valid.\r\n%s\r\n"
"It must be an integer in the range 1 to %d.\r\n",
/* 12 */

"On entry line %d, the data you entered for the %s field
isn't valid.\r\n%s\r\n", /* 13 */

"Supply Warehouse ID",
/* 14 */

"Item ID",
/* 15 */

"Quantity",
/* 16 */

"Your entry was outside the range.",
/* 17 */

"You didn't enter anything for the field.",
/* 18 */

"Your entry contained too many characters.",
/* 19 */

"The input data is wrong data type, must be numeric.",
/* 20 */

"It must be an integer in the range 1 to %d.",
/* 21 */

"The input data is wrong data type, must be english
capital letter.", /* 22 */
};

/*
set_errpage:

RTE

a generic error page generator. If the user does
anything screwy,
s/he gets here. The function generates an error page
based on the
two errlvl arguments and returns it for the user..

When err_no is 13 or more, Order Line Data is
Abnormal.
(err_no is the error data line number )

98.8.3 :
*/

int set_errpage (char *buf, int user, int err_no, int
err_inf, int sub_inf, int sub_inf2) {
    char errmsg[1024];
    int nchar;
    int length;

    if(err_no >= 13) { /* OrderLine
Data(Neworder) is Abnormal */
        switch(err_inf) {
            case -5: /* S_W_ID data is
abnormal */
                sprintf(errmsg,errstrings[13],err_no-
12,errstrings[14],errstrings[20]);
                sub_inf2 = maxwh;
                break;
            case -8: /* S_W_ID data is
uninput */
                sprintf(errmsg,errstrings[13],err_no-
12,errstrings[14],errstrings[18]);
                sub_inf2 = maxwh;

```

```

                break;
            case -15: /* S_W_ID data is
outside range */
                sprintf(errmsg,errstrings[13],err_no-
12,errstrings[14],errstrings[17]);
                sub_inf2 = maxwh;
                break;

            case -1: /* I_ID data is
uninput */
                sprintf(errmsg,errstrings[13],err_no-
12,errstrings[15],errstrings[18]);
                sub_inf2 = 100000;
                break;
            case -6: /* I_ID data is
abnormal */
                sprintf(errmsg,errstrings[13],err_no-
12,errstrings[15],errstrings[20]);
                sub_inf2 = 100000;
                break;
            case -16: /* I_ID data is
outside range */
                sprintf(errmsg,errstrings[13],err_no-
12,errstrings[15],errstrings[17]);
                sub_inf2 = 100000;
                break;

            case -7: /* Quantity data is
abnormal */
                sprintf(errmsg,errstrings[13],err_no-
12,errstrings[16],errstrings[20]);
                sub_inf2 = 10;
                break;
            case -2: /* Quantity data is
uninput */
                sprintf(errmsg,errstrings[13],err_no-
12,errstrings[16],errstrings[18]);
                sub_inf2 = 10;
                break;
            case -17: /* Quantity data is
outside range */
                sprintf(errmsg,errstrings[13],err_no-
12,errstrings[16],errstrings[17]);
                sub_inf2 = 10;
                break;

            default:
                break;
        }

        length = strlen(errmsg);
        sprintf(&errmsg[length], errstrings[21],
sub_inf2);
        sprintf(buf, errhtml, errmsg, SOPATH,
user);
    }
    else if ( err_no == 4 || err_no == 9 || err_no
== 12 ) {

        switch(err_inf) {
            case -3: /* There is not Input data */
                sprintf(errmsg,
errstrings[err_no], errstrings[18], sub_inf2);
                break;

            case -1: /* too many characters */

```

```

        sprintf(errmsg,
errstrings[err_no], errstrings[19], sub_inf2);
        break;

        case -2: /* Not all digits */
        sprintf(errmsg, errstrings[err_no],
errstrings[20], sub_inf2);
        break;

        case -4: /* nothing sub message */
        sprintf(errmsg,
errstrings[err_no], "", sub_inf2);
        break;

        default: /* Other error */
        sprintf(errmsg,
errstrings[err_no], errstrings[17], sub_inf2);
        break;
    }

    sprintf(buf, errhtml, errmsg,
SOPATH, user);
    printf("%s", buf);
}
else{
    switch(err_inf) {
        case -3: /* There is not Input data */
        sprintf(errmsg,
errstrings[err_no], errstrings[18]);
        break;

        case -1: /* too many characters */
        sprintf(errmsg,
errstrings[err_no], errstrings[19]);
        break;

        case -2: /* Not all digits */
        if (err_no == 7)
            sprintf(errmsg,
errstrings[err_no], errstrings[22]);
        else
            sprintf(errmsg,
errstrings[err_no], errstrings[20]);

        break;

        case -4: /* nothing sub message */
        sprintf(errmsg,
errstrings[err_no], "");
        break;

        default: /* Other error */
        sprintf(errmsg,
errstrings[err_no], errstrings[17]);
        break;
    }

    sprintf(buf, errhtml, errmsg,
SOPATH, user);
    printf("%s", buf);
}

    DBGP(fprintf (test_fp, "This Transaction is parameter
ERROR\n"));
    return 0;
}

/*
set_tuxerr :
this function make error message of the TP-
application program.
*/
int set_tuxerr (char *page, char *err_inf, int cookie) {
#ifdef SCRTST

    tpterm ();
#endif

    sprintf(page, tuxerr, err_inf, SOPATH, cookie);

    return 0;
}

/*
set_oraerr :
this function make error message of the Oracle
application program.
*/
int set_oraerr (char *page, char *err_inf, int cookie) {
#ifdef Symfo
    sprintf(page, symfoerr, err_inf, SOPATH, cookie);
#else
    sprintf(page, oraerr, err_inf, SOPATH, cookie);
#endif

    return 0;
}

/*
set_symfoerr :
this function make error message of the Oracle
application program.
*/
void set_symfoerr (char *page, int errorpos , int sqlstate
, int cookie )
{
    char *sqlfunc[4] ={"Failure on insert of a new
record",
                    "Failure on select of an existing record",
                    "Failure on update of an existing record",
                    "Failure to delete an existing record"};
    char buff[80];
    int pos;

    if ( errorpos == 0){
        sprintf( buf,"SQLERROR occured ... (
SQLSTATE : %05d)",sqlstate);
    }
    else{
        pos = errorpos / 100 ;
        sprintf( buf,"%s ... ( SQLSTATE : %05d
)",sqlfunc[pos-1],sqlstate );
    }

    sprintf(page, symfoerr, buf, SOPATH, cookie);
}

#ifdef USE_FML
//
void term_id ( int cookie){
    int transaction_id;
    int num;
    int loop;

    //
    for (loop = 0; loop < 5; loop++){

        num = Term_Base + TRN_ID[loop];
        transaction_id = 1;

        while ( num <= cookie ) {
            num += TRN_ID[loop];
            transaction_id++;
        }

        srv->m_tcctx[cookie - Term_Base].trn_id[loop]
= (char)transaction_id;
    }

    // DBGP(fprintf(test_fp, "svn=%d ott-cnt=%d,
num=%d)\n", svnum, loop, num));

    return;
}
#endif

/* -----
---
The function number of the TP application program
which requests processing
is acquired. ( Get TPCCxx name in tpccsvr.ott)
-----
-- */
int getsvnm ( int cookie ){

    int svnum = 1;
    int num;
    int loop = 0;

    num = 0;

    if ( maxconnect < cookie || cookie == 0){
        DBGP(fprintf (test_fp, "Term NO(%d) is not
support!\n", cookie));
        return(-1);
    }
    /* COMMENT OUT : 98.01.13
=====
=
for (cnt = 1; cnt < tpc_area->clnt_num; cnt++){
    if ( cookie < tpc_area->clnt[cnt][0]){
        break;
    }
}

cnt--;
num = tpc_area->clnt[cnt][0];
DBGP(fprintf (test_fp, "cookie=%d (client=%d,
max=%d, num=%d ->)\n",
cookie, cnt, tpc_area->clnt[cnt][0], num));

for (loop = 0; loop < tpc_area->clnt[cnt][1]; loop++){

    num += tpc_area->ott[cnt][loop];

    if (num > cookie){

```

```

break;
}
else{
svnum++;
}
}
=====
=====*/
DBGPF(fprintf(test_fp,"svn=%d ott-cnt=%d,
num=%d)\n", svnum, loop, num));

return (svnum);
}

/*
fast_menu:
This function reads a user's responses to the login
form, sets
up the user context, and returns the menu page.
*/

int fast_menu ( char *s_buf, rte_input_data *in_data, int
cookie){

int w_id, d_id, user_id;
char flag=0;

// make w_id, d_id
w_id = (cookie - 1)/10 + 1;
d_id = (cookie - 1)%10 + 1;

#ifdef USE_FML
//
term_id ( cookie );
#endif

// execute tpalloc ... : set w_id, d_id, and
trans_buffer pointer
if ((user_id = srv->Terminit (w_id, d_id, cookie))
== -1){

// tpalloc terminated abnormally
sprintf(s_buf, tuxierr, "tpalloc", SOPATH);
return -1;
}

sprintf(s_buf, h_menu, SOPATH, cookie);
return 0;
}

/* -----
The w_id, d_id are acquired. and call the function
getsvnam
-----
*/
int idget ( char *s_buf, int cookie ){

int w_id, d_id, user_id, sarvice_name;

/* make w_id, d_id */
w_id = (cookie - 1)/10 + 1;
d_id = (cookie - 1)%10 + 1;

if ((sarvice_name = getsvnam ( cookie )) < 0){

/*The terminal number exceeded the
maximum value */

```

```

sprintf(s_buf, noconnt, maxconnect,
cookie);
return -1;
}

sprintf(s_buf, h_menu, SOPATH, cookie);
return 0;
}

#define SUPPLY_NG 0x01
#define I_ID_NG 0x02
#define QUANTITY_NG 0x04

/* -----
chk_NOdata :
VerifyNewOrderLine verifies that a user's inputs for a
line in
the New Order form are okay.
return -5 : w_id abnormal value : Not Number
return -6 : i_id abnormal value : Not Number
return -7 : ol_quantity abnormal value : Not
Number
98.8.3 : (-15, -16, -17 : outside
range )
-----
- */
int chk_NOdata (neworder_trans *bp, int cnt,
rte_input_data *in_data, int svcnt)
{
char flag = 0;

if( in_data->OL_SUPPLY_W_ID[cnt] == 0 &&
in_data->OL_I_ID[cnt] == 0 &&
in_data->OL_QUANTITY[cnt] == 0 ){

/* Find last order line : 1 */
/* comment out : 98.08.25
bp->ol_i_id[cnt] = 0;
bp->ol_quantity[cnt] = 0;
bp->ol_supply_w_id[cnt] = 0;
return 0;

*/
return 16; /* change return code */
}

if( in_data->OL_SUPPLY_W_ID[cnt] != 0 ){

if((bp->ol_supply_w_id[svcnt] =
str2int (in_data->OL_SUPPLY_W_ID[cnt], 4)) <
1 ||
bp->ol_supply_w_id[svcnt] > maxwh )
{
if (bp->ol_supply_w_id[svcnt] < 0)
return -5; /* w_id abnormal */
else
return -15; /* outside
range */
}
}
else {
flag |= SUPPLY_NG;
}
}

```

```

if( in_data->OL_I_ID[cnt] != 0 ){

if((bp->ol_i_id[svcnt] =
str2int (in_data->OL_I_ID[cnt], 6)) < 0
||
bp->ol_i_id[svcnt] > 100000 ) {

if (bp->ol_i_id[svcnt] < 0)
return -6; /* i_id abnormal
value */
else
return -16; /* outside range */
}
else if (bp->ol_i_id[svcnt] == 0){
/* Convert 0 into -1. if this function
set 0 then the TP application
send the return code of abnormal
end : Oracle use only */
#ifdef Oracle
bp->ol_i_id[cnt] = -1;
#endif
}
else{
flag |= I_ID_NG;
}

if( in_data->OL_QUANTITY[cnt] != 0 ){

if(((bp->ol_quantity[svcnt] =
str2int (in_data->OL_QUANTITY[cnt], 2)) < 1) ||
bp->ol_quantity[svcnt] > 10){

if ( bp->ol_quantity[svcnt] < 0 )
return -7; /*
ol_quantity abnormal value */
else
return -17; /*
outside range */
}
}
else{
flag |= QUANTITY_NG;
}

if (flag != 0){

/* the order lien data is abnormal : there is
a uninput item */
DBGRF(fprintf(test_fp, "neworder ol data check
flag=%d\n", flag));

if((flag & SUPPLY_NG) != 0) return -8;
if((flag & I_ID_NG) != 0) return -1;
if((flag & QUANTITY_NG) != 0) return -2;
return 1;
}
else{
/* the order lien data is normal */
return 1;
}
}

/* -----
setNOdata : This function set the execution result
data of the TP
applicatin program.

```

```

OF is an offset value to the next line data.
cnt is line number
-----
- */

int setNOdata (char *s_work,int OF,int cnt,
              neworder_trans *bp,rte_input_data
              *in_data)
{
#ifdef Symfo

    int2str((s_work + OF + newp[11]), 4, (int)bp-
>ol_supply_w_id[cnt]);

    int2str((s_work + OF + newp[12]), 6, (int)bp-
>ol_i_id[cnt]);

    alp2str((s_work + OF + newp[13]), 24 ,bp-
>i_name[cnt]);

    int2str((s_work + OF + newp[14]), 2, (int)bp-
>ol_quantity[cnt]);
    int2str((s_work + OF + newp[15]), 3, (int)bp-
>s_quantity[cnt]);
    alp2str((s_work + OF + newp[16]), 1, &bp-
>brand_generic[cnt]);

    dec2str((s_work + OF + newp[17]), 6,
            (double)((double)bp->i_price[cnt] /
(double)100)); // check
    dec2str((s_work + OF + newp[18]), 7,
            (double)((double)bp->ol_amount[cnt] /
(double)100)); // check

    return 0;
#else

    if((bp->ol_i_id[cnt]) {
        alp2str ((s_work + OF + newp[11]), 78, " ");
        return -1;
    }
    else {
        int2str((s_work + OF + newp[11]), 4,
(int)bp->ol_supply_w_id[cnt]);

        if (bp->ol_i_id[cnt] == -1 )
            bp->ol_i_id[cnt] = 0;

        alp2str((s_work + OF + newp[12]), 6,
in_data->OL_I_ID[cnt]);

        alp2str((s_work + OF + newp[13]), 24,bp-
>i_name[cnt]);

        int2str((s_work + OF + newp[14]), 2,
(int)bp->ol_quantity[cnt]);
        int2str((s_work + OF + newp[15]), 3,
(int)bp->s_quantity[cnt]);
        alp2str((s_work + OF + newp[16]), 1, &bp-
>brand_generic[cnt]);

        dec2str((s_work + OF + newp[17]) ,
6,(double)bp->i_price[cnt]); // check
        dec2str((s_work + OF + newp[18]),
7,(double)bp->ol_amount[cnt]); // check
        return 0;
    }
}

#endif
}

/*-----
-
neworder : this function processes the NewOrder
transaction.
-----
-*/

int neworder (char *s_buf, rte_input_data *in_data, int
cookie)
{
    neworder_trans *bp;
    long olen;
    int user_id, i;
    int ol_cnt, cnt, rtn;

    char S_WORK[WORK_S];
    char TPAPL[12];
    char time_data[64];

#ifdef USE_FML
    neworder_trans tbuf;
    int w_id;

    bp = &tbuf;
    user_id = cookie - Term_Base;
    memset (bp, 0, sizeof(neworder_trans));
    /* 98.7.29 */
#else
    user_id = cookie - Term_Base;
    bp = ( neworder_trans *)srv-
>m_tcctxt[user_id].trans_b;
#endif

    bp->tx_type = TX_NEWORDER;
    bp->C_R = 0;

#ifdef USE_FML
    sprintf (TPAPL, "TPCC"); // TP-Base
Application Name (View)
#else
    sprintf (TPAPL, "TPCC%d", (int)srv-
>m_tcctxt[user_id].trn_id[0]);
#endif

    if ((rtn = ThrTplnit()) < 0){
        sprintf( S_WORK, "Thread init abort NEW (%d)
\n", rtn);
        set_oraerr( s_buf, S_WORK, cookie );
        return (-1);
    }

/* ----- check the
Input data */
    bp->w_id = (short)srv->m_tcctxt[user_id].w_id;

    if((bp->d_id = str2int (in_data->D_ID, 2)) < 1 || bp-
>d_id > 10)
        return set_errpage(s_buf, cookie, 2, (int)bp->d_id,
0, 0);

/* 98.8.3 : */
// if((bp->c_id = str2int (in_data->C_ID, 4)) < 1 || bp-
>c_id > 3000)

    if((bp->c_id = str2int (in_data->C_ID, 4)) < 0 )
        return set_errpage(s_buf, cookie, 6, bp-
>c_id, 0, 0);

/* 98.8.25 */
    ol_cnt = 0;
    for (cnt = 0; cnt < 15; cnt++){

        if ((rtn = chk_NOdata( bp, cnt, in_data, ol_cnt)) < 0
){
            return set_errpage(s_buf, cookie, 13 + cnt, rtn,
0, 0);
        }
/*
        else if (rtn == 0 && ol_cnt == 0){
            return set_errpage(s_buf, cookie, 13 + cnt, -8,
0, 0);
        }
        else if (rtn == 0){
            break;
        }
*/
        else if (rtn == 1){
            ol_cnt++;
        }

// else // Order Line data is normal: rtn == 1
// ol_cnt++;
// }

}

/* nothing order line data */
if ( cnt >= 15 && ol_cnt == 0 )
    return set_errpage(s_buf, cookie, 13, -8, 0, 0);

/* if ol_cnt < 15 then the last order line set NULL */
if ( ol_cnt < 15 ){
    bp->ol_i_id[ol_cnt] = 0;
    bp->ol_quantity[ol_cnt] = 0;
    bp->ol_supply_w_id[ol_cnt] = 0;
}

// |

    bp->o_ol_cnt = ol_cnt;

    DBGR(new_dsp(in_data, bp, srv-
>m_tcctxt[user_id].w_id, 0, ol_cnt));

/* ----- Execute NewOrder
transaction */
resend_neworder;

#ifdef SCRTST

    DBGR(tsp(0));

#endif

#ifdef USE_FML
    w_id = bp->w_id;

    rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_TERM, 0, (char *)&w_id, 0 );
    rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_TRAN, 0, (char *)&bp->tx_type, 0 );
    rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_DATA, 0, (char *)bp,
(FLDLEN)sizeof( neworder_trans ) );
#endif
}

```



```

if ( tpcall( TPAPL, ( char * )srv-
>m_tcctxt[user_id].trans_b, 0,
( char ** )&srv->m_tcctxt[user_id].trans_b,
&olen, 0|TPNOTIME ) == -1){

if ( tperno == TPESVCFAIL ) {
printf( S_WORK, "Oracle failed to process
NewOrder Transaction.\n"
"tperno = %d svc = '%s' d_id = %d c_id = %d
lines = %d\n",
tperno, TPAPL, bp->d_id, bp->c_id, ol_cnt );

set_oraerr( s_buf, S_WORK, cookie );
return (-1);
}

printf( S_WORK, "tpcall failed in NewOrder:
tperno = %d\n"
" svc = '%s' d_id = %d c_id = %d lines =
%d\n",
tperno, TPAPL,
bp->d_id, bp->c_id, ol_cnt );

set_tuxerr(s_buf, S_WORK, cookie);
return (-1);
}

DBGRR(tsp(1));
tbuf = *((neworder_trans *)Ffind( (Fbfr *)srv-
>m_tcctxt[user_id].trans_b, FML_DATA, 0, NULL));
bp = &tbuf;

#else

if ( tpcall( TPAPL, ( char * )srv-
>m_tcctxt[user_id].trans_b,
sizeof( neworder_trans ),
( char ** )&srv->m_tcctxt[user_id].trans_b,
&olen, 0|TPNOTIME ) == -1 ) {

if ( tperno == TPESVCFAIL ) {
printf( S_WORK, "Oracle failed to process
NewOrder Transaction.\n"
"tperno = %d svc = '%s' d_id = %d c_id = %d
lines = %d\n",
tperno, TPAPL,
bp->d_id, bp->c_id, ol_cnt );

set_oraerr( s_buf, S_WORK, cookie );
return (-1);
}

printf( S_WORK, "tpcall failed in NewOrder:
tperno = %d\n"
" svc = '%s' d_id = %d c_id = %d lines =
%d\n",
tperno, TPAPL,
bp->d_id, bp->c_id, ol_cnt );

set_tuxerr(s_buf, S_WORK, cookie);
return (-1);
}
DBGRR(tsp(1));

bp = ( neworder_trans * )srv-
>m_tcctxt[user_id].trans_b;
#endif

}else
dummy_neworder( bp );
#endif

DBGRR(new_dsp(in_data, bp, srv-
>m_tcctxt[user_id].w_id, 1, 1));

printf( S_WORK, h_new2);

int2str ((S_WORK + newp[0]), 4, (int)bp->w_id);
int2str ((S_WORK + newp[1]), 2, (int)bp->d_id);
int2str ((S_WORK + newp[3]), 4, bp->c_id);

alp2str ((S_WORK + newp[4]), 16, bp->c_last);
alp2str ((S_WORK + newp[5]), 2, bp->c_credit);
int2str ((S_WORK + newp[7]), 8, (int)bp->o_id);

if ( bp->C_R == 1 || bp->C_R == 2) { // Normal End

cnt = bp->o_ol_cnt;

#ifdef Symfo
convert_time( time_data, bp->o_entry_d);
time2str((S_WORK + newp[2]),time_data);
dec2str ((S_WORK + newp[6]),5,
(double)((double)(bp->c_discount) /
(double)100.0) );

int2str ((S_WORK + newp[8]),2,(int)bp->o_ol_cnt);

dec2str ((S_WORK + newp[9]),5,
(double)((double)(bp->w_tax) /
(double)100.0));
dec2str ((S_WORK + newp[10]),5,
(double)((double)(bp->d_tax) /
(double)100.0));
#else
time2str((S_WORK + newp[2]),bp->o_entry_d);
dec2str ((S_WORK +
newp[6]),5,(double)(bp->c_discount*100.0));
int2str ((S_WORK + newp[8]),2,(int)bp->o_ol_cnt);
dec2str ((S_WORK + newp[9]),5,
(double)(bp->w_tax * 100.0));
dec2str ((S_WORK +
newp[10]),5,(double)(bp->d_tax * 100.0));
#endif

for ( i = 0; i < cnt; i++ ) {
setINodata (S_WORK, 0x50*i, i, bp, in_data);
}

#ifdef Symfo
if (bp->C_R == 2)
alp2str ((S_WORK + newp[19]), 24,
"Item number is not valid");

dec2str ((S_WORK + newp[20]), 8,
(double)((double)(bp->total_amount) /
(double)100.0));
#else
/* "Item number is not valid" or "" ('\0') */
// Oracle Web Server use
alp2str ((S_WORK + newp[19]), 24, bp-
>status);
dec2str ((S_WORK + newp[20]), 8,
(double)(bp->total_amount)); // check
#endif

}

}

#ifdef SCRTEST
else{

#ifdef Symfo
if ( bp->newout.terror == IRRECERR){
printf( S_WORK, "Irrecoverable error in
NewOrder\n");
set_tuxerr( s_buf, S_WORK, cookie);
return (-1);
}
else{
goto resend_neworder; /* Retry
NewOrder transaction */
}
}
#else
set_symfoerr( s_buf, bp->errorpos, bp-
>sqlstate, cookie );
return (-1);
#endif
}
#endif

/* ----- The execution result data notified RTE is make
by the HTML form */

printf(s_buf, h_new1);
strcat (s_buf, S_WORK);

printf(S_WORK, h_new3, SOPATH, cookie);
strcat (s_buf, S_WORK);

return (0);
}

/*-----
-
payment : this function processes the Payment
transaction.
-----
*/
int payment( char *s_buf, rte_input_data *in_data, int
cookie)
{
payment_trans *bp;
int i, user_id, rtn;
long olen;

float h_amount; /* For work */

char c_id_flag = NG;
char S_WORK[WOR_K_S];
char TPAPL[12];
char time_data[64];

char buffer[128]; /* check HTML form */
char buffer2[128];
char buffer3[512];
int newlength;

#ifdef USE_FML
payment_trans tbuf;
int w_id;

```

```

    bp = &tbuf;
    user_id = cookie - Term_Base;
    memset (bp, 0, sizeof(payment_trans));
    /* 98.7.29 */
#else
    user_id = cookie - Term_Base;
    bp = ( payment_trans * )srv-
>m_tcctx[user_id].trans_b;
#endif

    bp->tx_type = TX_PAYMENT;
    bp->C_R = 0;

#ifdef USE_FML
    sprintf (TPAPL, "TPCC"); // TP-Base
Application Name (View)
#else
    sprintf (TPAPL, "TPCC%d", (int)srv-
>m_tcctx[user_id].trn_id[1]);
#endif

    if ((rtn = ThrTPlnit()) < 0){
    sprintf( S_WORK, "Thread init abort PAY (%d) \n",
rtn);
    set_or Kerr(s_buf, S_WORK, cookie );
    return (-1);
    }

/* ----- check the
Input data */
    bp->w_id = (short)srv->m_tcctx[user_id].w_id;

/* check d_id data */
    if((bp->d_id = str2short (in_data->D_ID, 2)) < 1 || bp-
>d_id > 10)
        return set_errpage(s_buf, cookie, 2, (int)bp->d_id,
0, 0);

/* check c_id data */
    if((bp->c_id = str2int (in_data->C_ID, 4)) != -3){

// if (bp->c_id < 1 || bp->c_id > 3000) { /*
98.8.3 : */
        if (bp->c_id < 0) {
            return set_errpage(s_buf, cookie, 6,
bp->c_id, 0, 0);
        }
        else{
            c_id_flag = OK;
        }
    }
    else{
        bp->c_id = 0;
    }

/* check c_last data */
    if((rtn = str2str(in_data->C_LAST, 16)) < 0){
        return set_errpage(s_buf, cookie, 7, rtn, 22, 0);
    }
    else{

        if ( rtn == 0 || *(in_data->C_LAST) == '\0' ) {
//
            bp->payin.bylastname = 0;
/* Oracle use only */
        } else {
            strcpy (bp->c_last, in_data-
>C_LAST);

//
            bp->payin.bylastname = 1;
/* Oracle use only */
            c_id_flag = OK;
        }
    }

/* c_id and c_last data is nothing */
    if (c_id_flag == NG)
        return set_errpage(s_buf, cookie, 11, -4, 0,
0);

/* check c_w_id data */
    if((bp->c_w_id = str2short (in_data->C_W_ID, 4)) < 1
|| bp->c_w_id > maxwh)
        return set_errpage(s_buf, cookie, 9, (int)bp-
>c_w_id, 0, maxwh);

/* check c_d_id data */
    if((bp->c_d_id = str2short (in_data->C_D_ID, 2)) < 1
|| bp->c_d_id > 10)
        return set_errpage(s_buf, cookie, 10, (int)bp-
>c_d_id, 0, 0);

/* check h_amount data :
str2dbl do hundredfold of the H_AMOUNT. The
pupose of if is to process
H_AMOUNT by the integer : 98.8.3 update */
    if((bp->h_amount = (long)str2dbl (in_data-
>H_AMOUNT, 7)) < 100 ||
        bp->h_amount > 500000)
        return set_errpage(s_buf, cookie, 8, (int)bp-
>h_amount, 0, 0);

    DBGP(pay_dsp(in_data, bp, srv-
>m_tcctx[user_id].w_id, 0));

/* ----- Execute Payment
transaction */
    resend_payment:

#ifdef SCRESTEST
    DBGR(tsp(0));
#endif

#ifdef USE_FML
    w_id = bp->w_id;

    rtn = Fchg( (Fbfr *)srv->m_tcctx[user_id].trans_b,
FML_TERM, 0, (char *)&w_id, 0);
    rtn = Fchg( (Fbfr *)srv->m_tcctx[user_id].trans_b,
FML_TRAN, 0, (char *)&bp->tx_type, 0);
    rtn = Fchg( (Fbfr *)srv->m_tcctx[user_id].trans_b,
FML_DATA, 0, (char *)bp,
(FLDLEN)sizeof( payment_trans ) );

    if ( tpcall( TPAPL, ( char * )srv-
>m_tcctx[user_id].trans_b, 0,
(char *)&srv->m_tcctx[user_id].trans_b,
&olen, 0|TPNOTIME ) == -1 ){

        if ( tperno == TPESVCFAIL ) {
            sprintf( S_WORK, "Oracle failed to process
Payment Transaction.\n"
                "tperno = %d svc = %s' d_id = %d c_id = %d
c_last = %s'\n",
                    "c_w_id = %d, c_d_id = %d,
h_amount = %d\n",
                    tperno, TPAPL,
                    bp->d_id, bp->c_id, bp->c_last,
                    bp->c_w_id, bp->c_d_id,
                    bp->h_amount );

            set_or Kerr(s_buf, S_WORK, cookie );
            return (-1);
        }

        sprintf( S_WORK, "tpcall failed in Payment:
tperno = %d\n"
            " svc = %s' d_id = %d c_id = %d
c_last = %s'\n"
            " c_w_id = %d c_d_id = %d
h_amount = %f\n",
            tperno, TPAPL, bp->d_id, bp->c_id,
bp->c_last,
            bp->c_w_id, bp->c_d_id, bp-
>h_amount );

        set_tuxerr(s_buf, S_WORK, cookie);
        return (-1);
    }

    DBGR(tsp(1));
    tbuf = *(( payment_trans * )Ffind( (Fbfr *)srv-
>m_tcctx[user_id].trans_b, FML_DATA, 0, NULL ) );
    bp = &tbuf;

#else
    if ( tpcall( TPAPL,(char *)srv-
>m_tcctx[user_id].trans_b,
sizeof(payment_trans),( char *)&srv-
>m_tcctx[user_id].trans_b,
&olen, 0|TPNOTIME ) == -1 ) {

        if ( tperno == TPESVCFAIL ) {
            sprintf( S_WORK, "Oracle failed to process
Payment Transaction.\n"
                "tperno = %d svc = %s' d_id = %d c_id = %d
c_last = %s'\n",
                    "c_w_id = %d, c_d_id = %d,
h_amount = %d\n",
                    tperno, TPAPL,
                    bp->d_id, bp->c_id, bp->c_last,
                    bp->c_w_id, bp->c_d_id,
                    bp->h_amount );

            set_or Kerr(s_buf, S_WORK, cookie );
            return (-1);
        }

        sprintf( S_WORK, "tpcall failed in Payment:
tperno = %d\n"
            " svc = %s' d_id = %d c_id = %d
c_last = %s'\n"
            " c_w_id = %d c_d_id = %d
h_amount = %f\n",
            tperno, TPAPL, bp->d_id, bp->c_id,
bp->c_last,
            bp->c_w_id, bp->c_d_id, bp-
>h_amount );

        set_tuxerr(s_buf, S_WORK, cookie);
        return (-1);
    }
}

```

```

}
DBGR(tsp(1));

bp = ( payment_trans * )srv-
>m_tcctxt[user_id].trans_b;
#endif

/* ----- Check the execution
result */
if ( bp->C_R != 1){

#ifndef Symfo
    if ( bp->payout.terror == IRRECERR ){
        sprintf ( S_WORK, "Irrecoverable error in
Payment\n" );
        set_tuxerr( s_buf, S_WORK, cook ie);
        return (-1);
    }
    goto resend_payment; /* TP_base busy.
Try again */
#else
    set_symfoerr ( s_buf, bp->errorpos, bp-
>sqlstate, cookie );
    return (-1);
#endif

}
#else
    dummy_payment( bp );
#endif

    DBGR(pay_dsp(in_data, bp, srv-
>m_tcctxt[user_id].w_id, 1));

    sprintf ( S_WORK, h_pay2);

#ifndef Symfo
    convert_time ( time_data, bp->h_date);
    time2str ((S_WORK + payp[0]), time_data);
#else
    time2str ((S_WORK + payp[0]), bp->h_date );
#endif

    int2str ((S_WORK + payp[1]), 4, (int)bp->w_id);
    int2str ((S_WORK + payp[2]), 2, (int)bp->d_id);
/*
    alp2str ((S_WORK + payp[3]), 20, bp->w_street_1);
    alp2str ((S_WORK + payp[4]), 20, bp->d_street_1);
    alp2str ((S_WORK + payp[5]), 20, bp->w_street_2);
    alp2str ((S_WORK + payp[6]), 20, bp->d_street_2);
*/

    // check HTML form

    alp2str (&buffer2[0], 20, bp->w_street_1);
    buffer2[20] = 0;
    newlength = checkHTMLform ( &buffer2[0],
&buffer[0]);
    strcpy (&buffer3[0], &buffer[0]);
    strcat (buffer3, " ");

    alp2str (buffer2, 20, bp->d_street_1);
    buffer2[20] = 0;
    newlength = checkHTMLform ( &buffer2[0],
&buffer[0]);
    strcat (buffer3, &buffer[0]);
    strcat (buffer3, "\r\n");

    alp2str (buffer2, 20, bp->w_street_2);

```

```

    buffer2[20] = 0;
    newlength = checkHTMLform ( &buffer2[0],
&buffer[0]);
    strcat (buffer3, &buffer[0]);
    strcat (buffer3, " ");

    alp2str (buffer2, 20, bp->d_street_2);
    buffer2[20] = 0;
    newlength = checkHTMLform ( &buffer2[0],
&buffer[0]);
    strcat (buffer3, &buffer[0]);
    strcat (buffer3, "\r\n");

    strcat ( S_WORK, buffer3 );

    // check HTML form

    sprintf ( buffer3, h_pay4 );

    alp2str ((&buffer3[0] + payp[7] - 0xd3), 20, bp-
>w_city);
    alp2str ((&buffer3[0] + payp[8] - 0xd3), 2, bp-
>w_state);
    zip2str ((&buffer3[0] + payp[9] - 0xd3), bp->w_zip);
    alp2str ((&buffer3[0] + payp[11] - 0xd3), 20, bp-
>d_city);
    alp2str ((&buffer3[0] + payp[12] - 0xd3), 2, bp-
>d_state);
    zip2str ((&buffer3[0] + payp[13] - 0xd3), bp->d_zip);

    int2str ((&buffer3[0] + payp[15] - 0xd3), 4, bp->c_id);
    int2str ((&buffer3[0] + payp[16] - 0xd3), 4, (int)bp-
>c_w_id);
    int2str ((&buffer3[0] + payp[17] - 0xd3), 2, (int)bp-
>c_d_id);

    alp2str ((&buffer3[0] + payp[18] - 0xd3), 16, bp-
>c_first);
    alp2str ((&buffer3[0] + payp[19] - 0xd3), 2, bp-
>c_middle);
    alp2str ((&buffer3[0] + payp[20] - 0xd3), 16, bp-
>c_last);

#ifndef Symfo
    convert_date ( time_data, bp->c_since);
    date2str ((&buffer3[0] + payp[21] - 0xd3),
time_data);
#else
    date2str ((S_WORK + payp[21]), bp->c_since);
#endif
/*
    alp2str ((S_WORK + payp[22]), 20, bp->c_street_1);
    alp2str ((S_WORK + payp[23]), 2, bp->c_credit);

    alp2str ((S_WORK + payp[24]), 20, bp->c_street_2);
    sprintf (buffer3, h_pay5);

#ifndef Symfo
    dec2str ((S_WORK + payp[25]), 5,
(double)((double)(bp->c_discount) /
(double)100.0));
#else
    dec2str ((S_WORK + payp[25]), 5, (double)(bp-
>c_discount * 100.0));
#endif
*/

```

```

    strcat (S_WORK, buffer3);

    strcpy (&buffer3[0], " ");

    alp2str (buffer2, 20, bp->c_street_1);
    buffer2[20] = 0;
    newlength = checkHTMLform ( &buffer2[0],
&buffer[0]);
    strcat (buffer3, &buffer[0]);
    strcat (buffer3, " Credit: ");

    alp2str (buffer2, 2, bp->c_credit);
    buffer2[2] = 0;
    strcat (buffer3, &buffer2[0]);
    strcat (buffer3, "\r\n");

    strcat (buffer3, " ");
    alp2str (buffer2, 20, bp->c_street_2);
    buffer2[20] = 0;
    newlength = checkHTMLform ( &buffer2[0],
&buffer[0]);
    strcat (buffer3, &buffer[0]);
    strcat (buffer3, " %Disc: ");
    strcat (S_WORK, buffer3);

    dec2str (&buffer3[0], 5,
(double)((double)(bp->c_discount) /
(double)100.0));
    sprintf (&buffer3[5], "\r\n");
    strcat (S_WORK, buffer3);

    sprintf (buffer3, h_pay5);

    alp2str ((&buffer3[0] + payp[26] - 0x21D), 20, bp-
>c_city);
    alp2str ((&buffer3[0] + payp[27] - 0x21D), 20, bp-
>c_state);
    zip2str ((&buffer3[0] + payp[28] - 0x21D), bp->c_zip);
    phone2str ((&buffer3[0] + payp[29] - 0x21D), bp-
>c_phone);

    h_amount = (float)bp->h_amount / (float)100;
    dec2str ((&buffer3[0] + payp[30] - 0x21D), 7,
(double)h_amount);

    sigdec2str ((&buffer3[0] + payp[31] - 0x21D), 14, bp-
>c_balance);
    dec2str ((&buffer3[0] + payp[32] - 0x21D), 13, bp-
>c_credit_lim);

    strcat (S_WORK, buffer3);
/*
    i = strlen( bp->c_data );

    alp2str ((S_WORK + payp[33]), 50, bp->c_data);

    if ( i > 50 ){
        alp2str ((S_WORK + payp[34]), 50, &bp-
>c_data[50]);
        if ( i > 100 ){
            alp2str ((S_WORK + payp[35]), 50, &bp-
>c_data[100]);
            if ( i > 150 ){
                alp2str ((S_WORK + payp[36]),
50, &bp->c_data[150]);
            }
        }
    }
*/

```

```

}
*/
if ( (i = strlen( bp->c_data )) <= 0 ) {
    sprintf (&buffer3[0], "\n\n\n\n\n\n\n\n");
}
else{
    alp2str (buffer2, 50, bp->c_data);
    buffer2[50] = 0;
    newlength = checkHTMLform ( &buffer2[0],
&buffer[0]);
    strcpy (&buffer3[0], &buffer[0]);
    strcat (buffer3, "\n\n");

    if ( i > 50 ){
        alp2str (buffer2, 50, &bp-
>c_data[50]);
        buffer2[50] = 0;
        newlength = checkHTMLform (
&buffer2[0], &buffer[0]);
        strcat (buffer3, " ");
        strcat (buffer3, &buffer[0]);
        strcat (buffer3, "\n\n");

        if ( i > 100 ){
            alp2str (buffer2, 50, &bp-
>c_data[100]);
            buffer2[50] = 0;
            newlength = checkHTMLform (
&buffer2[0], &buffer[0]);
            strcat (buffer3, " ");
            strcat (buffer3, &buffer[0]);
            strcat (buffer3, "\n\n");

            if ( i > 150 ){
                alp2str (buffer2, 50, &bp-
>c_data[150]);
                buffer2[50] = 0;
                newlength =
checkHTMLform ( &buffer2[0], &buffer[0]);
                strcat (buffer3, "
");
                strcat (buffer3,
&buffer[0]);
                strcat (buffer3, "\n\n");
            }
            else {
                strcat ( buffer3,
"\n\n\n\n\n\n");
            }
        }
        else {
            strcat ( buffer3, "\n\n\n\n\n\n");
        }
    }

    sprintf(S_WORK, buffer3);
    /* ----- The execution result data notified RTE is make
by the HTML form */

    sprintf(s_buf, h_pay1); /* set Header Data */
    strcat (s_buf, S_WORK); /* set Result Data */

    sprintf(S_WORK, h_pay3, SOPATH, cookie); /* set
Tailer Data */
    strcat (s_buf, S_WORK);

    return (0);
}
/*-----
orderstatus : this function processes the Orderstatus
transaction
-----
*/
int orderstatus (char *s_buf, rte_input_data *in_data, int
cookie)
{
    orderstat_trans *bp;
    long olen;
    int i, user_id, rtn;

    char S_WORK[WORK_SZ];
    char TPAPL[12];
    char c_id_flag = NG;
    char time_data[64];

#ifdef USE_FML
    orderstat_trans tbuf;
    int w_id;
    bp = &tbuf;
    user_id = cookie - Term_Base;
    memset (bp, 0, sizeof(orderstat_trans));
    /* 98.8.29 */
#else
    user_id = cookie - Term_Base;
    bp = ( orderstat_trans *)srv-
>m_tcctxt[user_id].trans_b;
#endif

    bp->tx_type = TX_ORDERSTAT;
    bp->C_R = 0;

#ifdef USE_FML
    sprintf (TPAPL, "TPCC"); /* TP-Base
Application Name (View)
#else
    sprintf (TPAPL, "TPCC%d", (int)srv-
>m_tcctxt[user_id].trn_id[2]);
#endif

    if ((rtn = ThrTplnit()) < 0){
        sprintf( S_WORK, "Thread init abort ODR (%d
\n", rtn);
        set_oraerr( s_buf, S_WORK, cookie );
        return (-1);
    }

    /* ----- check the
Input data */
    bp->w_id = (short)srv->m_tcctxt[user_id].w_id;

    /* check d_id data */
    if ((bp->d_id = str2short (in_data->D_ID, 2)) < 1 ||
bp->d_id > 10)
        return set_errpage(s_buf, cookie, 2, (int)bp->d_id,
0, 0);

    /* check c_id data : 98.8.3 */
    if ((bp->c_id = str2int(in_data->C_ID, 4)) != -3){

        DBGPF(printf (test_fp, "check c_id=%x\n",
bp->c_id, 0, 0));

        /*
        if (bp->c_id < 1 || bp->c_id > 3000) { /*
        */
        if (bp->c_id < 0) {
            return set_errpage(s_buf, cookie, 6,
bp->c_id, 0, 0);
        }
        else{
            c_id_flag = OK;
        }
    }
    else{
        bp->c_id = 0;
    }

    /* check c_last data */
    if((rtn = str2str(in_data->C_LAST, 16)) < 0){
        return set_errpage(s_buf, cookie, 7, rtn, 22, 0);
    }
    else{
        if ( rtn == 0 || *(in_data->C_LAST) == '\0' ) {
            bp->ordin.bylastname = 0;
            /* Oracle use only */
        } else {
            strcpy (bp->c_last, in_data->C_LAST);
            bp->ordin.bylastname = 1;
            /* Oracle use only */
            c_id_flag = OK;
        }
    }

    /* c_id and c_last is nothing */
    if (c_id_flag == NG)
        return set_errpage(s_buf, cookie, 11, -4, 0, 0);

    DBGPF(oder_dsp ( in_data, bp, srv-
>m_tcctxt[user_id].w_id, 0));

    /* ----- Execute Orderstatus
transaction */
    resend_orderstatus:

#ifdef SCRTEST
    DBGR(tsp(0));
#endif

#ifdef USE_FML
    w_id = bp->w_id;

    rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_TERM, 0, (char *)&w_id, 0 );
    rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_TRAN, 0, (char *)&bp->tx_type, 0 );
    rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_DATA, 0, (char *)bp,
(FLDLEN)sizeof( orderstat_trans) );

    if ( tpcall( TPAPL, ( char *)srv-
>m_tcctxt[user_id].trans_b, 0,
(char **)&srv->m_tcctxt[user_id].trans_b,
&olen, 0|TPNOTIME ) == -1){

        if ( tpermo == TPESVCFAIL ) {
            sprintf( S_WORK, "Oracle failed to process
NewOrder Transaction.\n"

```

```

        "tperno = %d svc = %s' d_id = %d c_id = %d
c_last = %s'\n",
        tperno, TPAPL, bp->d_id, bp->c_id,
        bp->c_last);

        set_or Kerr( s_buf, S_WORK, cookie );
        return (-1);
    }

        sprintf( S_WORK, "tpcall failed in
OrderStatus: tperno = %d\n"
        " svc = %s' d_id = %d c_id = %d
c_last = %s'\n",
        tperno, TPAPL, bp->d_id, bp-
>c_id, bp->c_last);

        set_tuxerr( s_buf, S_WORK, cookie);
        return (-1);
    }

    DBGR(tsp(1));
    tbuf = *((orderstat_trans *)Ffind( (Fbfr *)srv-
>m_tcctxt[user_id].trans_b, FML_DATA, 0, NULL));
    bp = &tbuf;
#else

    if ( tpcall( TPAPL, ( char * )srv-
>m_tcctxt[user_id].trans_b,
        sizeof(orderstat_trans),
        ( char **)&srv->m_tcctxt[user_id].trans_b,
        &olen, 0|TPNOTIME ) == -1 ){

        if ( tperno == TPESVCFAIL ) {
            sprintf( S_WORK, "Oracle failed to process
NewOrder Transaction.\n"
            "tperno = %d svc = %s' d_id = %d c_id = %d
c_last = %s'\n",
            tperno, TPAPL, bp->d_id, bp->c_id,
            bp->c_last);

            set_or Kerr( s_buf, S_WORK, cookie );
            return (-1);
        }

        sprintf( S_WORK, "tpcall failed in
OrderStatus: tperno = %d\n"
        " svc = %s' d_id = %d c_id = %d
c_last = %s'\n",
        tperno, TPAPL, bp->d_id, bp-
>c_id, bp->c_last);

        set_tuxerr( s_buf, S_WORK, cookie);
        return (-1);
    }

    DBGR(tsp(1));

    bp = ( orderstat_trans * )srv-
>m_tcctxt[user_id].trans_b;

#endif

/* ----- Check the execution
result */
if ( bp->C_R != 1 ){

#ifndef Symfo
    if ( bp->ordout.terror == IRRECERR ) {

```

```

        sprintf( S_WORK, "Irrecoverable
error in orderstatus.\n" );
        set_tuxerr( s_buf, S_WORK, cookie);
        return (-1);
    }

        goto resend_orderstatus; /* tuxedo busy ->
retry!! */
#else
        set_symfoerr( s_buf, bp->errorpos, bp-
>sqlstate, cookie );
        return (-1);
#endif
    }

#else
    dummy_orderstat( bp );
#endif

    DBGP(oder_dsp ( in_data, bp, srv-
>m_tcctxt[user_id].w_id, 1));

    sprintf(S_WORK, h_order2);
    int2str ((S_WORK + orderp[0]), 4, (int)bp->w_id);
    int2str ((S_WORK + orderp[1]), 2, (int)bp->d_id);
    int2str ((S_WORK + orderp[2]), 4, bp->c_id);
    alp2str ((S_WORK + orderp[3]), 16, bp->c_first);
    alp2str ((S_WORK + orderp[4]), 2, bp->c_middle);
    alp2str ((S_WORK + orderp[5]), 16, bp->c_last);

    sigdec2str ((S_WORK + orderp[6]), 9, bp-
>c_balance);

    int2str ((S_WORK + orderp[7]), 8, (int)bp->o_id );

#ifndef Symfo
    convert_time (time_data, bp->o_entry_d);
    time2str ((S_WORK + orderp[8]), time_data);
#else
    time2str ((S_WORK + orderp[8]), bp->o_entry_d );
#endif

    if ( bp->o_carrier_id != INTNULL ) {
        int2str ((S_WORK + orderp[9]), 2, bp-
>o_carrier_id);
    }

    /* 0x39 is an offset value to the same filed of the next
line */
    for( i = 0; i < bp->o_ol_cnt; i++ ){

        int2str ((S_WORK+i*0x3a+orderp[10]), 4, (int)bp-
>ol_supply_w_id[i]);
        int2str ((S_WORK+i*0x3a+orderp[11]), 6, (int)bp-
>ol_i_id[i]);
        int2str ((S_WORK+i*0x3a+orderp[12]), 2, (int)bp-
>ol_quantity[i]);

#ifndef Symfo
        sigdec2str ((S_WORK+i*0x3a+orderp[13]),
8,
            (double)((double)bp->ol_amount[i] /
(double)100.0));

//
        if( bp->ol_delivery_d[i] != -1 &&
/* Symfo NG */
        if( bp->ol_delivery_d[i] != 77777777 ){

```

```

        convert_date (time_data, bp-
>ol_delivery_d[i]);
        date2str
((S_WORK+i*0x3a+orderp[14]), time_data);
    }

#else
        sigdec2str ((S_WORK+i*0x3a+orderp[13]),
8, (double)bp->ol_amount[i]);

        if( strcmp( bp->ol_delivery_d[i], "NOT
DELIVR", 10) != 0 ){

            date2str
((S_WORK+i*0x3a+orderp[14]), bp->ol_delivery_d[i]);
        }

#endif
    }

/* ----- The execution result data notified RTE is make
by the HTML form */

    sprintf(s_buf, h_order1); /* set Header Data */
    strcat (s_buf, S_WORK); /* set Result Data
*/

    sprintf (S_WORK, h_order3, SOPATH, cookie); /* set
Tailer Data */
    strcat (s_buf, S_WORK);

    return 0;
}

/*
delivery : this function processes the delivery
transaction.
*/
int delivery (char *s_buf, rte_input_data *in_data, int
cookie)
{
    delivery_trans *bp;
    int user_id, rtn;
    char S_WORK[WORK_SJ];
    char TPAPL[12];

    struct tm times;
    SYSTEMTIME systemTime;

#ifndef USE_FML
    delivery_trans tbuf;
    int w_id;

    user_id = cookie - Term_Base;
    bp = &tbuf;

    memset (bp, 0, sizeof(delivery_trans) );
    /* 98.7.29 */
#else
    // int ol_cnt, cnt, i;
    // struct timeval timeque;

    user_id = cookie - Term_Base;
    bp = ( delivery_trans * )srv-
>m_tcctxt[user_id].trans_b;

#endif

    bp->tx_type = TX_DELIVERY;

```

```

bp->C_R = 0;

#ifdef USE_FML
    sprintf (TPAPL, "TPCC"); // TP-Base
    Application Name (View)
#else
    sprintf (TPAPL, "TPCC%d", (int)srv-
>m_tcctxt[user_id].trn_id[3]);
#endif

    if ((rtn = ThrTplnit()) < 0){
        sprintf (S_WORK, "Thread init abort DEL(%d) \n",
rtn);
        set_orarr (s_buf, S_WORK, cookie);
        return (-1);
    }

/* ----- Check the Input
data */
    bp->w_id = (short)srv->m_tcctxt[user_id].w_id;

    bp->o_carrier_id = str2short (in_data-
>O_CARRIER_ID, 2);

    if (bp->o_carrier_id < 1 || bp->o_carrier_id > 10)
        /* 98.6.29: */
        return set_errpage(s_buf, cookie, 5, (int)bp-
>o_carrier_id, 0, 0);

// bp->delin.in_timing_int = 1; /*
oracle use only */

/* ----- Execute Delivery
transaction */

resend_delivery:

    GetLocalTime(&systemTime);

#ifdef TOOLKIT_ORIGINAL_STRUCTURE /*
1996.08.07 */
    bp->delin.qtime = ( double )timeque.tv_sec
+ ( double )timeque.tv_usec / 1000000.0;

#else /* !TOOLKIT_ORIGINAL_STRUCTURE */

    // GetLocalTime _mktime
    times.tm_year = (int)systemTime.wYear - 1900;
    times.tm_mon = (int)systemTime.wMonth - 1;
    times.tm_mday = (int)systemTime.wDay;
    times.tm_hour = (int)systemTime.wHour;
    times.tm_min = (int)systemTime.wMinute;
    times.tm_sec = (int)systemTime.wSecond;

    bp->startsec = (long)mktime (&times);
    bp->startusec = (long)systemTime.wMilliseconds;

#endif /* !TOOLKIT_ORIGINAL_STRUCTURE */

#ifdef SCRTEST

    DBGR(fprintf ( test_fp, "tpacall delivery!\n" ));

    DBGR(tsp(0));

#endif USE_FML
    w_id = bp->w_id;

```

```

    rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_TERM, 0, (char *)&w_id, 0);
    rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_TRAN, 0, (char *)&bp->tx_type, 0);
    rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_DATA, 0, (char *)bp,
(FLDLEN)sizeof( delivery_trans ));

    rtn = tpacall( TPAPL, ( char * )srv-
>m_tcctxt[user_id].trans_b,
0, 0|TPNOREPLY|TPNOTIME ); //
#else
    rtn = tpacall( TPAPL, ( char * )srv-
>m_tcctxt[user_id].trans_b,
sizeof( delivery_trans ), 0| TPNOTIME |
TPNOREPLY );
#endif

    DBGR(tsp(1));

#else
    dummy_delivery( bp );
    rtn = 0;
#endif

    sprintf (S_WORK, h_del2);

/* ----- The execution result is
checke. */

    if ( rtn == -1 ) {

        /* Display message */

#ifdef SCRTEST
        char buf[1024];

        switch ( tperno ) {
            case TPELIMIT: /* */
            case TPETIME: /* */
            case TPGOTSIG: /* */

                /* sprintf ( S_WORK, "tpacall : Retry in Delivery:
tperno = %d\n"
" svc = '%s' carrier = %d\n", tperno,
now_otname, bp->delin.o_carrier_id );
*/

                /* Because it is an executable again error,
processing is executed again. */
                goto resend_delivery;
                break;

            case TPESVCFAIL:
                sprintf( S_WORK, "Oracle failed to process
Delivery Transaction.\n"
"tperno = %d svc = '%s' carrier = %d\n",
tperno,
TPAPL, bp->o_carrier_id );

                set_orarr( s_buf, S_WORK, cookie );
                return (-1);

            default:
                /* The error which was not able to be executed
again occurred */
                sprintf( S_WORK, "tpacall failed in Delivery:
tperno = %d\n"
" svc = '%s' carrier = %d\n", tperno,

```

```

TPAPL, bp->o_carrier_id);

        set_tuxerr (s_buf, S_WORK, cookie);
        return (-1);
    }
#endif

    } else {
        int2str ((S_WORK + delp[0]), 4, (int)bp-
>w_id);
        int2str ((S_WORK + delp[1]), 2, (int)bp-
>o_carrier_id);
        alp2str ((S_WORK + delp[2]), 25, "Delivery
has been queued");
    }

/* ----- The execution result data notified RTE is made
by the HTML form */

    sprintf(s_buf, h_del1);
    strcat (s_buf, S_WORK);

    sprintf(S_WORK, h_del3, SOPATH, cookie);
    strcat (s_buf, S_WORK);

    return 0;
}

/* -----
-

stocklevel : this function processes the StockLevel
transaction.

-----
-*/
int stocklevel (char *s_buf, rte_input_data *in_data, int
cookie)
{
    stocklvl_trans *bp;
    long olen;
    int loopc = 0;
    int rtn = 0;
    int user_id;

    char S_WORK[WORK_S];
    char TPAPL[12];

#ifdef USE_FML
    stocklvl_trans tbuf;
    int w_id;

    bp = &tbuf;
    user_id = cookie - Term_Base;
    memset (bp, 0, sizeof(stocklvl_trans));
    /* 98.7.29 */
#else
    user_id = cookie - Term_Base;
    bp = ( stocklvl_trans *)srv-
>m_tcctxt[user_id].trans_b;
#endif

    bp->tx_type = TX_STOCKLVL;
    bp->C_R = 0;

#ifdef USE_FML

```

```

        sprintf(TPAPL, "TPCC"); // TP-Base
Application Name (View)
#else
        sprintf(TPAPL, "TPCCs%d", (int)srv-
>m_tcctxt[user_id].trn_id[4]);
#endif

        if ((rtn = ThrTplnit()) < 0){
        sprintf(S_WORK, "Thread init abort STOCK (%d)
\n", rtn);
        set_or Kerr(s_buf, S_WORK, cookie);
        return (-1);
        }

/* ----- check the
Input data */
        bp->w_id = (short)srv->m_tcctxt[user_id].w_id;
        bp->d_id = (short)srv->m_tcctxt[user_id].d_id;

        /* check threshold data : 98.6.29 */
        bp->threshold = (long)str2short(in_data->threshold,
2);

        if(bp->threshold < 10 || bp->threshold > 20)
                return set_errpage(s_buf, cookie, 3, (int)bp-
>threshold, 0, 0);

        DBGP(sto_dsp(in_data, bp, srv-
>m_tcctxt[user_id].w_id, srv->m_tcctxt[user_id].d_id,
0));

/* ----- Execute Stock Level
transaction */
resend_stock:

#ifdef SCRTTEST

        DBGR(tsp(0));

#endif USE_FML
        w_id = bp->w_id;

        rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_TERM, 0, (char *)&w_id, 0);
        rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_TRAN, 0, (char *)&bp->ix_type, 0);
        rtn = Fchg( (Fbfr *)srv->m_tcctxt[user_id].trans_b,
FML_DATA, 0, (char *)bp,
        (FLDLLEN)sizeof( stocklvl_trans ));

        if ( tpcall(TPAPL, (char *)srv-
>m_tcctxt[user_id].trans_b, 0,
        (char **)&srv->m_tcctxt[user_id].trans_b,
        &olen, 0|TPNOTIME) == -1){

        if ( tperno == TPESVCFAIL ) {
        sprintf(S_WORK, "Oracle failed to process
StockLevel Transaction.\n"
        "tperno = %d svc = '%s' threshold = %d\n",
tperno,
                TPAPL, bp->threshold);

        set_or Kerr(s_buf, S_WORK, cookie);
        return (-1);
        }
}

#endif

```

```

        sprintf(S_WORK, "stockLevel: tperno =
%d\n"
        " svc = '%s' threshold = %d\n",
tperno,
                TPAPL, bp->threshold);

        set_tuxerr(s_buf, S_WORK, cookie);
        return (-1);
}

DBGR(tsp(1));
        tbuf = *((stocklvl_trans *)Ffind( (Fbfr *)srv-
>m_tcctxt[user_id].trans_b, FML_DATA, 0, NULL));
        bp = &tbuf;

#else

        if ( tpcall(TPAPL, (char *)srv-
>m_tcctxt[user_id].trans_b,
                sizeof( stocklvl_trans ),
        (char **)&srv->m_tcctxt[user_id].trans_b,
        &olen, 0|TPNOTIME) == -1){

        if ( tperno == TPESVCFAIL ) {
        sprintf(S_WORK, "Oracle failed to process
StockLevel Transaction.\n"
        "tperno = %d svc = '%s' threshold = %d\n",
tperno,
                TPAPL, bp->threshold);

        set_or Kerr(s_buf, S_WORK, cookie);
        return (-1);
        }

        sprintf(S_WORK, "stockLevel: tperno =
%d\n"
        " svc = '%s' threshold = %d\n",
tperno,
                TPAPL, bp->threshold);

        set_tuxerr(s_buf, S_WORK, cookie);
        return (-1);
}

        sprintf(S_WORK, "stockLevel: tperno =
%d\n"
        " svc = '%s' threshold = %d\n",
tperno,
                TPAPL, bp->threshold);

        set_tuxerr(s_buf, S_WORK, cookie);
        return (-1);
}

        bp = ( stocklvl_trans *)srv-
>m_tcctxt[user_id].trans_b;

#endif

/* ----- Check the execution
result */
        if ( bp->C_R != 1){

#ifdef Symfo
                if ( bp->stout.terror == IRRECERR ) {
                sprintf(S_WORK, "Irrecoverable error in
stocklevel \n");
                set_tuxerr(s_buf, S_WORK, cookie);
                return (-1);
                }
                goto resend_stock; /* TP application
busy. Try again */
#else
                set_symfoerr(s_buf, bp->errorpos, bp-
>sqlstate, cookie);
                return (-1);
#endif
}
#endif

```

```

}

#else
        dummy_stocklvl ( bp );
        DBGP(sto_dsp(in_data, bp, srv-
>m_tcctxt[user_id].w_id, srv->m_tcctxt[user_id].d_id,
1));
#endif

        DBGP(sto_dsp(in_data, bp, srv-
>m_tcctxt[user_id].w_id, srv->m_tcctxt[user_id].d_id,
1));

        sprintf(S_WORK, h_stock2);
        int2str((S_WORK + stockp[0]), 4, (int)bp->w_id);
        int2str((S_WORK + stockp[1]), 2, (int)bp->d_id);
        int2str((S_WORK + stockp[2]), 2, (int)bp-
>threshold);
        int2str((S_WORK + stockp[3]), 3, (int)bp-
>low_stock);

/* ----- The execution result data notified RTE is make
by the HTML form */

        sprintf(s_buf, h_stock1); /* Set Header data */
        strcat(s_buf, S_WORK); /* Set Result data
*/

        sprintf(S_WORK, h_stock3, SOPATH, cookie); /* Set
Tailer data */
        strcat(s_buf, S_WORK);

        return (0);
}

/* -----
select_trn:

RTE
:

s_buf          HTML

interprets information from the user's input data to
determine which
page should be displayed back to the user.

query - the query string that comes back from
ParseFormData
ptrs - a pointer to a raw_form_data structure with
pointers
        to values in 'query'.

----- */

int select_trn ( rte_input_data *in_data, char *s_buf, int
cookie ) {

        int length = 0;
        int user_id = cookie - Term_Base;
        int rtn = 0;

/*
        if(in_data->form) {
*/

```

```

if (in_data->form && (in_data->form[0] != 'M') ) {
    if (in_data->form[0] == '1') {
        /* send the transaction select screen
page */
        rtn = fast_menu (s_buf, in_data,
cookie);
        return rtn;
    }
    else{
        EnterCriticalSection(&(srv-
>m_tcctxt[user_id].user)); // Make it thread safe.

        /* check transaction type */
        switch(in_data->form[0]) {
        case 'N':
            rtn = neworder (s_buf, in_data,
cookie);
            break;

        case 'D':
            rtn = delivery(s_buf, in_data, cookie);
            break;

        case 'P':
            rtn = payment (s_buf, in_data,
cookie);
            break;

        case 'S':
            rtn = stocklevel(s_buf, in_data,
cookie);
            break;

        case 'O':
            rtn = orderstatus (s_buf,
in_data, cookie);
            break;

        default:
            /* uninput transaction type */
            set_errpage(s_buf, cookie, 1, -
4, 0, 0);
            rtn = 1;
            break;
        }

        LeaveCriticalSection(&(srv-
>m_tcctxt[user_id].user));
        return rtn;
    }
}
else if(in_data->button) {

    EnterCriticalSection(&(srv-
>m_tcctxt[user_id].user)); // Make it thread safe.

    /* send the data input screen page */
    switch(in_data->button[0]) {
    case 'N':

        sprintf(s_buf, in_newpage, SOPATH,
cookie, srv->m_tcctxt[user_id].w_id);
        length = strlen (s_buf);

        sprintf(s_buf+length -1 ,
in_newpage2);

        break;

        case 'D':
            sprintf(s_buf, in_delpage, SOPATH, cookie, srv-
>m_tcctxt[user_id].w_id);
            break;

        case 'P':
            sprintf(s_buf, in_paypage, SOPATH, cookie,
srv->m_tcctxt[user_id].w_id);
            break;

        case 'S':
            sprintf(s_buf, in_stkpage, SOPATH, cookie,
srv-
>m_tcctxt[user_id].w_id, srv->m_tcctxt[user_id].d_id);
            break;

        case 'O':
            sprintf(s_buf, in_odrpage, SOPATH, cookie,
srv->m_tcctxt[user_id].w_id);
            break;

        case 'Q':
            /* This value use WWW browser only. */
            if (in_data->cookie)
                srv->Termfree (in_data-
>cookie);

            sprintf (s_buf, loginpage , VLDATA, SOPATH);
            return rtn;

        default:
            /* uninput transaction type */
            set_errpage(s_buf, cookie, 0, -4, 0, 0);
            break;
        }

        LeaveCriticalSection(&(srv-
>m_tcctxt[user_id].user));
        return rtn;
    }
}
else {

    /* if there is not parameter then send login
page data.
    this part use WWW browser only */
    sprintf (s_buf, loginpage, VLDATA,
&SOPATH);
    return 0;
}

////////////////////////////////////
// CWinApp
// : MFC DLL
//

CWinApp theApp;

#ifdef WIZDEF
////////////////////////////////////
//

BEGIN_PARSE_MAP(CTpapIExtension, CHttpServer)
// TODO:
ON_PARSE_COMMAND()
// ON_PARSE_COMMAND_PARAMS()
// :

ON_PARSE_COMMAND (Default,
CTpapIExtension, ITS_PSTR)
DEFAULT_PARSE_COMMAND (Default,
CTpapIExtension)
END_PARSE_MAP(CTpapIExtension)
#endif

////////////////////////////////////
// CTpapIExtension

CTpapIExtension theExtension;

////////////////////////////////////
// CTpapIExtension
//
// constructor
//

CTpapIExtension::CTpapIExtension() : CHttpServer(?)
{
    DWORD kind;
    DWORD type;
    DWORD size;

    int user_id;
    int def_base = 1;
    int def_warehouse = 2000;
    int def_maxusers = 20000;
    int def_maxterm = 2000;
    int CONTROL_Flag = 0;

    int errcode = 0;

    union dtg {BYTE bit[32]; char chara[32]; DWO RD
data[8];} reg_d;

    /* Open registry Area */
    RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SOFTWARE", 0,
KEY_READ | KEY_WRITE,
&m_tpccregkey);

    RegCreateKeyEx(m_tpccregkey, "Fujitsu", 0,
NULL,
REG_OPTION_NON_VOLATILE,
KEY_READ | KEY_WRITE, NULL,
&m_tpccregkey, &kind);

    RegCreateKeyEx(m_tpccregkey, "TPC-C ISAPI
Application", 0, NULL,
REG_OPTION_NON_VOLATILE,
KEY_READ | KEY_WRITE, NULL,
&m_tpccregkey, &kind);

    /* If the key is newly made, the default value is
set in the key. */
    if(kind == REG_CREATED_NEW_KEY) {
        RegSetValueEx(m_tpccregkey,
"Term_Base",
0, REG_DWORD,(const unsigned
char *)&def_base, 4);
    }
}

```



```

        RegSetValueEx(m_tpccregkey,
"NumWarehouses",
        0, REG_DWORD,(const unsigned
char *)&def_warehouse, 4);
        RegSetValueEx(m_tpccregkey,
"MaxUsers",
        0, REG_DWORD,(const unsigned
char *)&def_maxusers, 4);
        RegSetValueEx(m_tpccregkey, "MaxTerm
of Client",
        0, REG_DWORD,(const unsigned
char *)&def_maxterm, 4);
        RegSetValueEx(m_tpccregkey,
"CONTROL_Flag",
        0, REG_DWORD,(const unsigned
char *)&CONTROL_Flag, 4);
    }

    /* Get registry data */
    RegQueryValueEx(m_tpccregkey, "Term_Base",
        0, &type,(unsigned char *)&reg_d.bit,
&size);
    Term_Base = reg_d.data[0];
    // Start terminal(user) number

    RegQueryValueEx(m_tpccregkey,
"NumWarehouses",
        0, &type,(unsigned char *)&reg_d.bit,
&size);
    maxwh = reg_d.data[0];
    // Max warehouse scale

    RegQueryValueEx(m_tpccregkey, "MaxUsers",
        0, &type,(unsigned char *)&reg_d.bit,
&size);
    maxconnect = reg_d.data[0];
    // Max terminal(user) number

    RegQueryValueEx(m_tpccregkey, "MaxTerm of
Client",
        0, &type,(unsigned char *)&reg_d.bit,
&size);
    maxterm = reg_d.data[0];
    // Max terminal(user) number of client

    RegQueryValueEx(m_tpccregkey,
"CONTROL_Flag",
        0, &type,(unsigned char *)&reg_d.bit,
&size);
    C_FLAG = reg_d.data[0];
    // debug flag

    InitializeCriticalSection (&crit);
    EnterCriticalSection (&crit);

#ifdef SCRTST

    TLSIsTpnitedKey = TlsAlloc ();
#endif

    /* Initialize Working Area */
    for(user_id = 0; user_id < maxterm; user_id++) {
        m_tcctx[user_id].w_id = 0;
        m_tcctx[user_id].d_id = 0;
        m_tcctx[user_id].trans_b = 0;
    }

```

```

    LeaveCriticalSection (&crit);
    srv = this;
}

//
// destructor
//
CTpapIExtension::~CTpapIExtension()
{
    int x;

    EnterCriticalSection(&crit);

    for(x = Term_Base; x < Term_Base + maxterm;
x++){
        Termfree (x);
    }

    LeaveCriticalSection(&crit);

    TlsFree(TLSIsTpnitedKey);
}

BOOL
CTpapIExtension::GetExtensionVersion(HSE_VERSIO
N_INFO* pVer)
{
    //
    CHttpServer::GetExtensionVersion(pVer);

    //
    TCHAR
sz[HSE_MAX_EXT_DLL_NAME_LEN+1];
    ISAPIVERIFY(::LoadString(AfxGetResourceHandl
e(),
        IDS_SERVER, sz,
HSE_MAX_EXT_DLL_NAME_LEN));
    _tcsncpy(pVer->lpszExtensionDesc, sz);
    return TRUE;
}

////////////////////////////////////
// HttpExtensionProc
////////////////////////////////////
// This method is called every time the user makes a
// request. We don't do anything here except catch a
// successful
// return value and substitute a value that permits the
// network connection to be kept alive.

DWORD
CTpapIExtension::HttpExtensionProc(EXTENSION_CO
NTROL_BLOCK *pECB)
{
    char QueryString[1024];
    char *page;
    int cookie = -1;
    int len, rtn;

    char S_BUF [BUF_S];
    char S_WORK[WORK_S];

    rte_input_data in_data_area;

```

```

#ifdef DBPRT
    char dbg_query[1024];
    long s_pid;
    char path_w[96];
#endif

    char szHeader[128];
    char szHeader1[128];
    int isize;
    BOOL rrcode;

    strcpy(QueryString, (char *)pECB-
>lpszQueryString);

#ifdef DBPRT
    strcpy(dbg_query, (char *)pECB-
>lpszQueryString);
#endif

    strct_init (&in_data_area);

    cookie = anly_para ((char *)QueryString,
&in_data_area );

#ifdef DBPRT
    if ( cookie >= 0){
        sprintf (path_w, "C:\\tcllog\\log%d", cookie);
        test_fp = fopen (path_w, "aw+");
    }
#endif

    // Terminal Number Check
    // If terminal number is not valid then send error
message.
    if ( cookie < Term_Base || cookie >= (Term_Base
+ maxterm) ){

        sprintf (S_BUF, badterm, Term_Base,
Term_Base+maxterm-1, cookie);
        len = strlen (S_BUF);

#ifdef DBPRT
        if ( cookie >= 0){
            fprintf (test_fp, "--> QUERY: %s\n",
dbg_query);
            fprintf (test_fp, "%s%s\n", S_WORK,
S_BUF);
            fflush (test_fp);
            fclose (test_fp);
        }
#endif

        isize = sprintf (szHeader, "200 OK");
        sprintf (szHeader1,
            "Connection: keep-alive\r\nContent-
type: text/html\r\nContent-length: %d\r\n\r\n",
            len);

        rrcode = (*pECB-
>ServerSupportFunction)(pECB->ConnID,
HSE_REQ_SEND_RESPONSE_HEADER,

            szHeader, (unsigned long *)&isize,
(LPDWORD)szHeader1);

        rrcode = (*pECB->WriteClient)(pECB-
>ConnID, &S_BUF[0], (unsigned long *)&len, 0);

```

```

        return
HSE_STATUS_SUCCESS_AND_KEEP_CONN;
    }

    //
    rtn = select_trn ( &in_data_area, S_BUF, cookie
);

    //
    len = strlen (S_BUF);

    isize = sprintf (szHeader, "200 OK");

    sprintf (szHeader1,
        "Connection: keep-alive\r\nContent-
type: text/html\r\nContent-length: %d\r\n\r\n",
        len );

    rtcode = (*pECB->ServerSupportFunction)(pECB->ConnID, HSE_REQ_SEND_RESPONSE_HEADER,

        szHeader, (unsigned long *)&isize,
(LPDWORD)szHeader1);

    rtcode = (*pECB->WriteClient)(pECB->ConnID,
&S_BUF[0], (unsigned long *)&len, 0);

#ifdef DBPRT
    if ( cookie >= 0 ){
        fprintf (test_fp, "--> QUERY: %s\n",
dbg_query);
        fprintf (test_fp, "%s\n", S_WORK,
S_BUF);
        fflush (test_fp);
        fclose (test_fp);
    }
#endif

    // For Debug : output error message
    if (( C_FLAG & PRT_ELOG) != 0) {
        if ( strstr (S_BUF, "ERROR") != 0) {
            {
                FILE *test_fp2;
                char w_path[96];

                sprintf (w_path, "C:\tcllog\log%d", cookie);
                test_fp2 = fopen (w_path, "aw+");
                fprintf (test_fp2, "%s\n", S_BUF);
                fflush(test_fp2);
                fclose(test_fp2);
            }
        }
    }

    return
HSE_STATUS_SUCCESS_AND_KEEP_CONN;
}

//
//
// Called when a user logs in. This function gives the
// user a cookie and creates a user context in the
// server
// object associated with that cookie. The context
// contains

```

```

// working copies of the response forms with the cookie
// plugged into them, the warehouse and district ids
// provided by the user, and the database connection.
// This function also opens the connection to the
// database
// for this user.

int CTpaplExtension::Terminit(int w_id, int d_id, int
cookie)
{
    int user_id;

#ifdef USE_FML
#define BUF_TYPE "FML"
#else
#define BUF_TYPE "CARRAY"
#endif

#ifdef LOG_ALL
    char buffer[80];
#endif

    // Non-reentrant code.
    // Must find the first free context slot.

    EnterCriticalSection(&crit); // Make it thread
safe

    user_id = cookie - Term_Base;

    m_tcctxt[user_id].w_id = w_id;
    m_tcctxt[user_id].d_id = d_id;

#ifdef SCRTEST
    // Create Tuxedo buffer (Execute tmalloc)
    if ((m_tcctxt[user_id].trans_b =
(void *)tpalloc (BUF_TYPE, NULL,
trans_size)) == NULL) {

        // tmalloc abnormal end. create mess age
form.

#ifdef DBPRT
        fprintf (test_fp, "tpalloc() failed (%d) :
user_id=%d\n",
            tperno, cookie);
#endif
    }

    LeaveCriticalSection(&crit);
    return (-1);
}

#else
    // For Debug : create local buffer
    if ((m_tcctxt[user_id].trans_b =
(void *)malloc ( trans_size )) == NULL){
        // malloc abnormal end. create message
form.
#ifdef DBPRT
        fprintf (test_fp, "tpalloc() failed : user_id =
%d\n", cookie);
#endif
    }

    LeaveCriticalSection(&crit);
    return (-1);
}

#endif

```

```

#ifndef USE_FML
    memset ( m_tcctxt[user_id].trans_b, 0,
(size_t)(trans_size));
#endif

    LeaveCriticalSection(&crit);

    InitializeCriticalSection(&(m_tcctxt[user_id].user));

    return cookie;
}

//
//
// Given a cookie, determines whether there is a
// session
// associated with it, and if there is, closes the attached
// database session, frees the associated resources,
// and
// makes the slot available for future use.

void CTpaplExtension::Termfree (int Cookie) {

#ifdef LOG_ALL
    char buffer[80];
#endif

    int idx = Cookie - Term_Base;

    // Login
    alloc
    if(m_tcctxt[idx].w_id != 0) {

#ifdef SCRTEST
        tfree ((char *)m_tcctxt[idx].trans_b);
#else
        free (m_tcctxt[idx].trans_b);
#endif
    }

    // Deconstructor
    Enter

    !!

    LeaveCriticalSection(&(m_tcctxt[idx].user));

    // Login
    m_tcctxt[idx].d_id = 0;
    m_tcctxt[idx].w_id = 0;
}

// For convenience, an overloaded version of Termfree
// that understands the string representation of the
// cookie.
void CTpaplExtension::Termfree (char *Cookie) {

    int x;

    if((x = strtoint (Cookie, 4)) < 0) return;
    else Termfree (x);
}

// ClassWizard
#if 0
BEGIN_MESSAGE_MAP(CTpaplExtension,
CHttpServer)

```

```

    {{{AFX_MSG_MAP(CTpaplExtension)
    //}}AFX_MSG_MAP
END_MESSAGE_MAP()
#endif // 0

////////////////////////////////////
//      MFC
//
//      MFC
// AfxGetResourceHandle()   DllMain()
g_hInstance global
//

/****

static HINSTANCE g_hInstance;

HINSTANCE AFXISAPI AfxGetResourceHandle()
{
    return g_hInstance;
}

BOOL WINAPI DllMain(HINSTANCE hInst, ULONG
ulReason,
                    LPVOID lpReserved)
{
    if (ulReason == DLL_PROCESS_ATTACH)
    {
        g_hInstance = hInst;
    }

    return TRUE;
}

****/

File: tpapl.h

#if
!defined(AFX_TPAPL_H__04D0797B_A452_11D1_8D7
7_0000E20BF509__INCLUDED_)
#define
AFX_TPAPL_H__04D0797B_A452_11D1_8D77_0000E
20BF509__INCLUDED_

// TPAPL.H -
// tpapl Extension

#include "resource.h"
#include "tpccis.h"

int maxconnect;
int maxterm;
int Term_Base;
int maxwh;
int C_FLAG;
int TRN_ID[5];

typedef struct tc_tbl {

    void *trans_b;
    int w_id;
    int d_id;

```

```

    char n_otlname [8];
    char trn_id[5];

    CRITICAL_SECTION user;

} tc_context;

class CTpaplExtension : public CHttpServer
{
public:
    CTpaplExtension();
    ~CTpaplExtension();

//
// ClassWizard
// - ClassWizard
//
// {{{AFX_VIRTUAL(CTpaplExtension)
public:
    virtual BOOL
GetExtensionVersion(HSE_VERSION_INFO* pVer);
//}}AFX_VIRTUAL

// TODO:
// :

    DWORD HttpExtensionProc (
EXTENSION_CONTROL_BLOCK *pECB);
    BOOL ServiceAvailable;

    tc_context m_tcctx[MaxTerm];

    HKEY m_tpccregkey;

    void Termfree (int Cookie);
    void Termfree (char *Cookie);
    int Terminate (int w_id, int d_id, int cookie);

    CRITICAL_SECTION crit;

#ifdef WIZDEF
    void Default(CHttpServerContext* pCtxt, LPTSTR
pszName);
    DECLARE_PARSE_MAP()
#endif
    {{{AFX_MSG(CTpaplExtension)
    //}}AFX_MSG
};

CTpaplExtension *srv;

//{{{AFX_INSERT_LOCATION}}
// Microsoft Developer Studio

#endif //
!defined(AFX_TPAPL_H__04D0797B_A452_11D1_8D7
7_0000E20BF509__INCLUDED_)

File: tpapl.mak
# Microsoft Developer Studio Generated NMAKE File,
Based on tpapl.dsp
!IF "$(CFG)" == ""
CFG=tpapl - Win32 keep
!MESSAGE

```

```

!ENDIF

!IF "$(CFG)" != "tpapl - Win32 Release" && "$(CFG)" !=
"tpapl - Win32 keep"
!MESSAGE "$(CFG)"
!MESSAGE NMAKE
!MESSAGE :
!MESSAGE
!MESSAGE NMAKE /f "tpapl.mak" CFG="tpapl - Win32
keep"
!MESSAGE :
!MESSAGE
!MESSAGE "tpapl - Win32 Release" ("Win32 (x86)
Dynamic-Link Library" )
!MESSAGE "tpapl - Win32 keep" ("Win32 (x86)
Dynamic-Link Library" )
!MESSAGE
!ERROR
!ENDIF

!IF "$(OS)" == "Windows_NT"
NULL=
!ELSE
NULL=nul
!ENDIF

!IF "$(CFG)" == "tpapl - Win32 Release"

OUTDIR=.Release
INTDIR=.Release
# Begin Custom Macros
OutDir=.Release
# End Custom Macros

!IF "$(RECURSE)" == "0"

ALL : "$(OUTDIR)\tpapl.dll"

!ELSE

ALL : "$(OUTDIR)\tpapl.dll"

!ENDIF

CLEAN :
-@erase "$(INTDIR)\StdAfx.obj"
-@erase "$(INTDIR)\tpapl.obj"
-@erase "$(INTDIR)\tpapl.pch"
-@erase "$(INTDIR)\tpapl.res"
-@erase "$(INTDIR)\vc50.idb"
-@erase "$(OUTDIR)\tpapl.dll"
-@erase "$(OUTDIR)\tpapl.exp"
-@erase "$(OUTDIR)\tpapl.lib"

"$(OUTDIR)" :
if not exist "$(OUTDIR)\$(NULL)" mkdir "$(OUTDIR)"

CPP=cl.exe
CPP_PROJ=/nologo /MD /W3 /GX /O2 /I
"c:\tuxedo\include" /D "WIN32" /D "NDEBUG" \
/D "_WINDOWS" /D "_WINDLL" /D "_AFXDLL" /D
"_USRDLL" /D "Symfo" /D\
" _TMSTHEADS" /D "USE_FML"
/Fp"$(INTDIR)\tpapl.pch" /Yu"stdafx.h" \
/Fo"$(INTDIR)\\" /Fd"$(INTDIR)\\" /FD /c
CPP_OBJS=.Release/
CPP_SBRS=.

```

```

.c$(CPP_OBJS).obj:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cpp$(CPP_OBJS).obj:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cxx$(CPP_OBJS).obj:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.c$(CPP_SBRS).sbr:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cpp$(CPP_SBRS).sbr:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cxx$(CPP_SBRS).sbr:
$(CPP) @<<
$(CPP_PROJ) $<
<<

MTL=midl.exe
MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /o NUL
/win32
RSC=rc.exe
RSC_PROJ=/I 0x411 /fo "$(INTDIR)\tpapl.res" /d
"NDEBUG" /d "_AFXDLL"
BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o "$(OUTDIR)\tpapl.bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libtux.lib libbuff.lib libtux2.lib libfml.lib
libfml32.lib\
libgp.lib /nologo /subsystem:windows /dll
/incremental:no\
/pdb:"$(OUTDIR)\tpapl.pdb" /machine:i386
/def:".tpapl.def"
/out:"$(OUTDIR)\tpapl.dll"
/implib:"$(OUTDIR)\tpapl.lib"
/libpath:"c:\tuxedo\lib"
DEF_FILE= \
".tpapl.def"
LINK32_OBJS= \
 "$(INTDIR)\StdAfx.obj" \
 "$(INTDIR)\tpapl.obj" \
 "$(INTDIR)\tpapl.res"

"$(OUTDIR)\tpapl.dll" : "$(OUTDIR)" $(DEF_FILE)
$(LINK32_OBJS)
$(LINK32) @<<
$(LINK32_FLAGS) $(LINK32_OBJS)
<<

!ELSEIF "$(CFG)" == "tpapl - Win32 keep"

OUTDIR=. \tpaplkeep
INTDIR=. \tpaplkeep

# Begin Custom Macros
OutDir=. \tpaplkeep
# End Custom Macros

!IF "$(RECURSE)" == "0"

ALL : "$(OUTDIR)\tpapl.dll" "$(OUTDIR)\tpapl.pch"

!ELSE

ALL : "$(OUTDIR)\tpapl.dll" "$(OUTDIR)\tpapl.pch"

!ENDIF

CLEAN :
-@erase "$(INTDIR)\StdAfx.obj"
-@erase "$(INTDIR)\tpapl.obj"
-@erase "$(INTDIR)\tpapl.pch"
-@erase "$(INTDIR)\tpapl.res"
-@erase "$(INTDIR)\vc50.idb"
-@erase "$(INTDIR)\vc50.pdb"
-@erase "$(OUTDIR)\tpapl.dll"
-@erase "$(OUTDIR)\tpapl.exp"
-@erase "$(OUTDIR)\tpapl.ilk"
-@erase "$(OUTDIR)\tpapl.lib"
-@erase "$(OUTDIR)\tpapl.pdb"

"$(OUTDIR)" :
if not exist "$(OUTDIR)\$(NULL)" mkdir "$(OUTDIR)"

CPP=cl.exe
CPP_PROJ=/nologo /Mdd /W3 /Gm /GX /ZI /Od /I
"c:\tuxedo\include" /D "WIN32" /D\
"_DEBUG" /D "_WINDOWS" /D "_WINDLL" /D
"_AFXDLL" /D "_USRDLL" /D "Symfo" /D\
"_TMSTHEADS" /D "USE_FML"
/Fp "$(INTDIR)\tpapl.pch" /Yu "stdafx.h" \
/Fo "$(INTDIR)\\" /Fd "$(INTDIR)\\" /FD /c
CPP_OBJS=. \tpaplkeep/
CPP_SBRS=.

.c$(CPP_OBJS).obj:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cpp$(CPP_OBJS).obj:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cxx$(CPP_OBJS).obj:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.c$(CPP_SBRS).sbr:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cpp$(CPP_SBRS).sbr:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cxx$(CPP_SBRS).sbr:
$(CPP) @<<
$(CPP_PROJ) $<
<<

$(CPP_PROJ) $<
<<

MTL=midl.exe
MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /o NUL
/win32
RSC=rc.exe
RSC_PROJ=/I 0x411 /fo "$(INTDIR)\tpapl.res" /d
"NDEBUG" /d "_AFXDLL"
BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o "$(OUTDIR)\tpapl.bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libtux.lib libbuff.lib libtux2.lib libfml.lib
libfml32.lib\
libgp.lib /nologo /subsystem:windows /dll
/incremental:yes\
/pdb:"$(OUTDIR)\tpapl.pdb" /debug /machine:i386
/def:".tpapl.def"
/out:"$(OUTDIR)\tpapl.dll" /implib:"$(OUTDIR)\tpapl.lib"
/pdbtype:sept\
/libpath:"c:\tuxedo\lib"
DEF_FILE= \
".tpapl.def"
LINK32_OBJS= \
 "$(INTDIR)\StdAfx.obj" \
 "$(INTDIR)\tpapl.obj" \
 "$(INTDIR)\tpapl.res"

"$(OUTDIR)\tpapl.dll" : "$(OUTDIR)" $(DEF_FILE)
$(LINK32_OBJS)
$(LINK32) @<<
$(LINK32_FLAGS) $(LINK32_OBJS)
<<

!ENDIF

!IF "$(CFG)" == "tpapl - Win32 Release" || "$(CFG)" ==
"tpapl - Win32 keep"
SOURCE=. \StdAfx.cpp
DEP_CPP_STDAF= \
". \StdAfx.h"

!IF "$(CFG)" == "tpapl - Win32 Release"

CPP_SWITCHES=/nologo /MD /W3 /GX /O2 /I
"c:\tuxedo\include" /D "WIN32" /D\
"NDEBUG" /D "_WINDOWS" /D "_WINDLL" /D
"_AFXDLL" /D "_USRDLL" /D "Symfo" /D\
"_TMSTHEADS" /D "USE_FML"
/Fp "$(INTDIR)\tpapl.pch" /Yc "stdafx.h" \
/Fo "$(INTDIR)\\" /Fd "$(INTDIR)\\" /FD /c

"$(INTDIR)\StdAfx.obj" "$(INTDIR)\tpapl.pch" :
$(SOURCE) $(DEP_CPP_STDAF)
"$(INTDIR)"
$(CPP) @<<
$(CPP_SWITCHES) $(SOURCE)
<<

!ELSEIF "$(CFG)" == "tpapl - Win32 keep"

CPP_SWITCHES=/nologo /Mdd /W3 /Gm /GX /ZI /Od
/I "c:\tuxedo\include" /D "WIN32" \

```

```

/D "_DEBUG" /D "_WINDOWS" /D "_WINDLL" /D
"_AFXDLL" /D "_USRDLL" /D "Symfo" /D\
 "_TMSTHEADS" /D "USE_FML"
/Fp"${(INTDIR)\tpapl.pch" /Yc"stdafx.h"
/Fo"${(INTDIR)\\" /Fd"${(INTDIR)\\" /FD /c

"${(INTDIR)\StdAfx.obj" "${(INTDIR)\tpapl.pch" :
$(SOURCE) $(DEP_CPP_STDAF)\
"${(INTDIR)"
$(CPP) @<<
$(CPP_SWITCHES) $(SOURCE)
<<

ENDIF

SOURCE=. \tpapl.cpp

!IF "$(CFG)" == "tpapl - Win32 Release"

DEP_CPP_TPAPL=\
..\..\tuxedo\include\atmi.h"
..\..\tuxedo\include\fm1.h"
..\..\tuxedo\include\tmenv.h"
..\bench2.h"
..\dbgprt.h"
..\delpage.h"
..\dmy.h"
..\fdtbl.h"
..\menupage.h"
..\newpage.h"
..\odrpape.h"
..\paypage.h"
..\stpage.h"
..\tpapl.h"
..\tpcc_info.h"
..\tpccis.h"
..\tpcinweb.h"
..\tpcweb.h"
..\trans.h"

CPP_SWITCHES=/nologo /MD /W3 /GX /O2 /I
"c:\tuxedo\include" /D "WIN32" /D\
"NDEBUG" /D "_WINDOWS" /D "_WINDLL" /D
"_AFXDLL" /D "_USRDLL" /D "Symfo" /D\
 "_TMSTHEADS" /D "USE_FML"
/Fp"${(INTDIR)\tpapl.pch" /Yu"stdafx.h"
/Fo"${(INTDIR)\\" /Fd"${(INTDIR)\\" /FD /c

"${(INTDIR)\tpapl.obj" : $(SOURCE)
$(DEP_CPP_TPAPL) "${(INTDIR)"
"${(INTDIR)\tpapl.pch"
$(CPP) @<<
$(CPP_SWITCHES) $(SOURCE)
<<

!ELSEIF "$(CFG)" == "tpapl - Win32 keep"

DEP_CPP_TPAPL=\
..\..\tuxedo\include\atmi.h"
..\..\tuxedo\include\fm1.h"
..\..\tuxedo\include\me nv.h"
..\bench2.h"
..\dbgprt.h"
..\delpage.h"
..\dmy.h"
..\fdtbl.h"

```

```

..\menupage.h"
..\newpage.h"
..\odrpape.h"
..\paypage.h"
..\StdAfx.h"
..\stpage.h"
..\tpapl.h"
..\tpcc_info.h"
..\tpccis.h"
..\tpcinweb.h"
..\tpcweb.h"
..\trans.h"

CPP_SWITCHES=/nologo /MDd /W3 /Gm /GX /ZI /Od
/I "c:\tuxedo\include" /D "WIN32"
/D "_DEBUG" /D "_WINDOWS" /D "_WINDLL" /D
"_AFXDLL" /D "_USRDLL" /D "Symfo" /D\
 "_TMSTHEADS" /D "USE_FML" /Fo"${(INTDIR)\\"
/Fd"${(INTDIR)\\" /FD /c

"${(INTDIR)\tpapl.obj" : $(SOURCE)
$(DEP_CPP_TPAPL) "${(INTDIR)"
$(CPP) @<<
$(CPP_SWITCHES) $(SOURCE)
<<

ENDIF

SOURCE=. \tpapl.rc

"${(INTDIR)\tpapl.res" : $(SOURCE) "${(INTDIR)"
$(RSC) $(RSC_PROJ) $(SOURCE)

ENDIF

File: tpcarea.h
/* Client context area (oracle web server) */

typedef struct {
// void *trans_b; /* pointer of interface area with TP
application */
int prt_cnt; /* print counter : for debug */
int clnt_num; /* maximam client matchine
number */
int max_user; /* maximam user number */
int ott_num; /* maximam TP applicaton
program of 1 client */
int clnt[MAXCLIENT][2]; /* client matchine
infomation */
int ott [MAXCLIENT][MAXOTT]; /* TP application
program information */
}tpc_struct;

File: tpcc_info.h
/*=====
=====+
FILENAME : tpcc_info.h
DESCRIPTION

```

```

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

#ifndef TPCC_INFO_H
#define TPCC_INFO_H

#define trans_size 1104 /* interfase area size */

#ifndef Symfo
/* Oracle use only
The external variable is declared. (this file use tpcc.c
only) */

long olen;
void *trans_buf;
int trans_size = 1024;
int svnum;

int logincnt = 0;
int base_cok = 0;
char NewOrdername[20];
char Paymentname[20];
char OrderStatusname[20];
char Deliveryname[20];
char StockLevelname[20];

char s_buf[BUF_S];
char s_work[WORK_S];

int now_cookie = 0;
int now_w_id = 0;
int now_d_id = 0;
char now_ottname[8] =
{0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00};
#endif

#define VLDATA "Ver 2.1 keep-fml"

#ifndef Symfo
#define INTNULL -32768
#else
#define INTNULL 0
#endif

#ifndef SCRTEST

#ifndef DBPRT
char SOPATH[] = "/dbgSD/tpapl.dll"; /*
DEBG Mode: SCRTEST & DBPRT */
#define MDDATA "SCR And DP"
#else
char SOPATH[] = "/tpc/tpapl.dll"; /* DEBG
Mode: SCRTEST */
#define MDDATA "SCR"
#endif

#else

#ifndef NOSCR
char SOPATH[] = "/tpc/tpapl.dll"; /* DEGB
Mode: */
#define MDDATA "DBG"
#endif

```

```

char SOPATH[] = "tpc/tpapl.dll";      /* Release
Mode: */
#define MDDATA "REL"
#endif

#endif

#ifdef DBPRT                          /* for debug */
FILE "test_fp";
#endif

#endif

File: tpccis.h
//
// Client Application Header file
//
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/types.h>
#include <time.h>
#include <math.h>
#include <stdarg.h>
#include <signal.h>
#include <sys/stat.h>
#include <fcntl.h>
#include <malloc.h>
#include <process.h>

/* TPC-C transaction functions
extern int TPCinit ();
extern int TPCnew ();
extern int TPCpay ();
extern int TPCord ();
extern int TPCdel ();
extern int TPCsto ();
extern int TPCexit ();
extern int TPCdumpinit ();
extern int TPCdumpnew ();
extern int TPCdumppay ();
extern int TPCdumpord ();
extern int TPCdumpdel ();
extern int TPCdumpsto ();
extern int TPCdumpexit ();
*/

#define MAXCONNECT 1000
#define MAXTERM 2000
#define MAXWH 1000 /* Max Warehouse
scale */

/* The maximum value of client machine which can be
processed */
#define MAXCLIENT 10

/* The maximum value of TP application program of 1
client machine
which can be processed */
#define MAXOTT 80

/* number of Transaction */
#define TRANNEW 1

#define TRANPAY 2
#define TRANORD 3
#define TRANDEL 4
#define TRANSTO 5

/* Error codes : send from TP application program */
#define RECOVERR -10
#define IRRECERR -20
#define NOERR 111

#define NG 0
#define OK 1

#define BUF_S 4096 /* size of the send buffer area
*/
#define WORK_S 2400 /* size of the work buffer area
*/

#define TERM_V 0x1 /* Terminal Verification
#define PRT_ELOG 0x8 /* Output Debug Message

// SymfoWare Use Only
#define TX_NEWORDER 1
#define TX_PAYMENT 2
#define TX_ORDERSTAT 3
#define TX_DELIVERY 4
#define TX_STOCKLVL 5

/* Debug Print proc define : debug use only */

#ifdef DBPRT

#if ( DBPRT > 5 )
#define DBGP(proc) proc
#define DBGR(proc) proc

#else
#define DBGP(proc)
#define DBGR(proc) proc
#endif

#else
#define DBGP(proc)
#define DBGR(proc)
#endif

File: tpcinweb.h
/* -----
tpcinweb.h
Transaction input data screen data
-----
*/

/* -----
delivery page
* -----*/

#define in_delpage "\
<HTML><HEAD><TITLE>TPC-C:
Delivery</TITLE></HEAD>\r\n\
<BODY><FORM ACTION=\"%s\"
METHOD=\"GET\">\r\n\
<INPUT TYPE=\"hidden\" NAME=\"f\"
VALUE=\"D\">\r\n\
<INPUT TYPE=\"hidden\" NAME=\"c\" VALUE=%d>\r\n\
<center>Delivery<br></center>\r\n\
<font size=4><PRE>Warehouse: %4d\r\n\
\r\n\
Carrier Number: <INPUT NAME=\"OC\" SIZE=2
maxlength=2>\r\n\
\r\n\
Execution Status:\r\n\
</PRE><INPUT
TYPE=\"submit\"></FORM></BODY></HTML>"

#define in_delpage2 "\
<HTML><HEAD><TITLE>TPC-C:
Delivery</TITLE></HEAD>\r\n\
<BODY><FORM ACTION=\"%s\"
METHOD=\"GET\">\r\n\
<INPUT TYPE=\"hidden\" NAME=\"f\"
VALUE=\"D\">\r\n\
<INPUT TYPE=\"hidden\" NAME=\"c\" VALUE=%d>\r\n\
<center>Delivery<br></center>\r\n\
<font size=3><PRE>\
Warehouse:%4d\r\n\
\r\n\
Carrier Number:<INPUT NAME=\"OC\" SIZE=2
maxlength=2>\r\n\
\r\n\
Execution Status:\r\n\
</PRE><INPUT
TYPE=\"submit\"></FORM></BODY></HTML>\r\n"

/* -----
neworder page
* -----*/

#define in_newpage "\
<HTML><HEAD><TITLE>TPC-C: New
Order</TITLE></HEAD>\r\n\
<BODY><FORM ACTION=\"%s\"
METHOD=\"GET\">\r\n\
<INPUT TYPE=\"hidden\" NAME=\"f\"
VALUE=\"N\">\r\n\
<INPUT TYPE=\"hidden\" NAME=\"c\" VALUE=%d>\r\n\
<center>New Order<br></center>\r\n\
<PRE><font size=4>Warehouse: %4d District:
<INPUT NAME=\"DI\" SIZE=2 maxlength=2>
Date:\r\n\
Customer: <INPUT NAME=\"CI\" SIZE=4
maxlength=4> Name: Credit:
%%Disc:\r\n\
Order Number: Number of Lines: W_tax:
D_tax:\r\n\r\n\
Supp_W Item_Id Item Name Qty Stock
B/G Price Amount\r\n\
<INPUT NAME=\"OS01\" SIZE=4 maxlength=4>
<INPUT NAME=\"OI01\" SIZE=6 maxlength=6>
<INPUT NAME=\"OO01\" SIZE=2 maxlength=2>\r\n\
<INPUT NAME=\"OS02\" SIZE=4 maxlength=4>
<INPUT NAME=\"OI02\" SIZE=6 maxlength=6>
<INPUT NAME=\"OO02\" SIZE=2 maxlength=2>\r\n\
<INPUT NAME=\"OS03\" SIZE=4 maxlength=4>
<INPUT NAME=\"OI03\" SIZE=6 maxlength=6>
<INPUT NAME=\"OO03\" SIZE=2 maxlength=2>\r\n\
<INPUT NAME=\"OS04\" SIZE=4 maxlength=4>
<INPUT NAME=\"OI04\" SIZE=6 maxlength=6>
<INPUT NAME=\"OO04\" SIZE=2 maxlength=2>\r\n\
<INPUT NAME=\"OS05\" SIZE=4 maxlength=4>
<INPUT NAME=\"OI05\" SIZE=6 maxlength=6>
<INPUT NAME=\"OO05\" SIZE=2 maxlength=2>\r\n\

```

```

<INPUT NAME="OS06" SIZE=4 maxlength=4>
<INPUT NAME="OI06" SIZE=6 maxlength=6>
<INPUT NAME="OQ06" SIZE=2 maxlength=2>\r\n
\r\n
#define in_newpage2 "\
<INPUT NAME="OS07" SIZE=4 maxlength=4>
<INPUT NAME="OI07" SIZE=6 maxlength=6>
<INPUT NAME="OQ07" SIZE=2 maxlength=2>\r\n
<INPUT NAME="OS08" SIZE=4 maxlength=4>
<INPUT NAME="OI08" SIZE=6 maxlength=6>
<INPUT NAME="OQ08" SIZE=2 maxlength=2>\r\n
<INPUT NAME="OS09" SIZE=4 maxlength=4>
<INPUT NAME="OI09" SIZE=6 maxlength=6>
<INPUT NAME="OQ09" SIZE=2 maxlength=2>\r\n
<INPUT NAME="OS10" SIZE=4 maxlength=4>
<INPUT NAME="OI10" SIZE=6 maxlength=6>
<INPUT NAME="OQ10" SIZE=2 maxlength=2>\r\n
<INPUT NAME="OS11" SIZE=4 maxlength=4>
<INPUT NAME="OI11" SIZE=6 maxlength=6>
<INPUT NAME="OQ11" SIZE=2 maxlength=2>\r\n
<INPUT NAME="OS12" SIZE=4 maxlength=4>
<INPUT NAME="OI12" SIZE=6 maxlength=6>
<INPUT NAME="OQ12" SIZE=2 maxlength=2>\r\n
<INPUT NAME="OS13" SIZE=4 maxlength=4>
<INPUT NAME="OI13" SIZE=6 maxlength=6>
<INPUT NAME="OQ13" SIZE=2 maxlength=2>\r\n
<INPUT NAME="OS14" SIZE=4 maxlength=4>
<INPUT NAME="OI14" SIZE=6 maxlength=6>
<INPUT NAME="OQ14" SIZE=2 maxlength=2>\r\n
<INPUT NAME="OS15" SIZE=4 maxlength=4>
<INPUT NAME="OI15" SIZE=6 maxlength=6>
<INPUT NAME="OQ15" SIZE=2 maxlength=2>\r\n
Execution Status:           Total:
$\r\n
</PRE><INPUT
TYPE="submit"></FORM></BODY></HTML>"

```

```

/* -----
orderstatus page
* -----*/

```

```

#define in_odrpage "\
<HTML><HEAD><TITLE>TPC-C: Order-
Status</TITLE></HEAD>\r\n
<BODY><FORM ACTION="%"s"
METHOD="GET">\r\n
<INPUT TYPE="hidden" NAME="f"
VALUE="O">\r\n
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\r\n
<center>Order Status<br></center>\r\n
<font size=4><PRE>Warehouse: %4d District:
<INPUT NAME="D" SIZE=2 maxlength=2>\r\n
Customer: <INPUT NAME="CI" SIZE=4
maxlength=4> Name:           <INPUT
NAME="CL" SIZE=17 maxlength=16>\r\n
Cust-Balance: \r\n
\r\n
Order-Number:      Entry-Date:
Carrier-Number:\r\n
Supply-W Item-Id Qty Amount Delivery-
Date\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n

```

```

\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
</PRE>\r\n
<INPUT
TYPE="submit"></FORM></BODY></HTML>"

```

```

#define in_odrpage2 "\
<HTML><HEAD><TITLE>TPC-C: Order-
Status</TITLE></HEAD>\r\n
<BODY><FORM ACTION="%"s"
METHOD="GET">\r\n
<INPUT TYPE="hidden" NAME="f"
VALUE="O">\r\n
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\r\n
<center>Order Status<br></center>\r\n
<font size=3><PRE>\
Warehouse: %4d District: <INPUT NAME="D"
SIZE=2 maxlength=2>\r\n
Customer: <INPUT NAME="CI" SIZE=4 maxlength=4>
Name:           <INPUT NAME="CL" SIZE=16
maxlength=16>\r\n
Cust-Balance: \r\n
\r\n
Order-Number:      Entry-Date:
Carrier-Number:\r\n
Supply-W Item-Id Qty Amount Delivery-
Date\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
</PRE>\r\n
<INPUT
TYPE="submit"></FORM></BODY></HTML>\r\n"

```

```

/* -----
payment page
* -----*/
#define in_paypage "\
<HTML><HEAD><TITLE>TPC-C:
Payment</TITLE></HEAD>\r\n
<BODY><FORM ACTION="%"s"
METHOD="GET">\r\n
<INPUT TYPE="hidden" NAME="f"
VALUE="P">\r\n
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\r\n
<center>Payment<br></center>\r\n
<font size=4><PRE>Date:\r\n
\r\n
Warehouse: %4d           District: <INPUT
NAME="D" SIZE=2 maxlength=2>\r\n
\r\n
\r\n

```

```

\r\n
\r\n
Customer: <INPUT NAME="CI" SIZE=4
maxlength=4> Cust-Warehouse: <INPUT
NAME="CW" SIZE=4 maxlength=4> Cust-District:
<INPUT NAME="CD" SIZE=2 maxlength=2>\r\n
Name:           <INPUT NAME="CL" SIZE=17
maxlength=16>           Since:\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
\r\n
Credit:\r\n
%Disc:\r\n
Phone:\r\n

```

```

\r\n
Amount Paid      $<INPUT NAME="HI" SIZE=7
maxlength=7>      New Cust-Balance:\r\n
Credit Limit:\r\n
\r\n
Cust-Data:\r\n
\r\n
\r\n
</PRE>\r\n
<INPUT
TYPE="submit"></FORM></BODY></HTML>"

```

```

/* -----
stock level page
* -----*/
#define in_stkpage "\
<HTML><HEAD><TITLE>TPC-C: Stock-
Level</TITLE></HEAD>\r\n
<BODY><FORM ACTION="%"s"
METHOD="GET">\r\n
<INPUT TYPE="hidden" NAME="f"
VALUE="S">\r\n
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\r\n
<center>Stock Level<br></center>\r\n
<font size=4><PRE>Warehouse: %4d District:
%2d\r\n
\r\n
Stock Level Threshold: <INPUT NAME="tl" SIZE=2
maxlength=2>\r\n
\r\n
low stock:\r\n
</PRE>\r\n
<INPUT
TYPE="submit"></FORM></BODY></HTML>"

```

```

#define in_stkpage2 "\
<HTML><HEAD><TITLE>TPC-C: Stock-
Level</TITLE></HEAD>\r\n
<BODY><FORM ACTION="%"s"
METHOD="GET">\r\n
<INPUT TYPE="hidden" NAME="f"
VALUE="S">\r\n
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\r\n
<center>Stock Level<br></center>\r\n
<font size=3><PRE>\
Warehouse: %4d District: %2d\r\n
\r\n
Stock Level Threshold: <INPUT NAME="tl" SIZE=2
maxlength=2>\r\n
\r\n
low stock:\r\n
</PRE>\r\n
<INPUT
TYPE="submit"></FORM></BODY></HTML>\r\n"

```

**File: tpcweb.h**

```

/* -----
--
   tpcweb.h
-----
*/

/* If transaction input data is abnormal then use this
format. */
#define errhtml "\
<HTML><HEAD><TITLE>ERROR: TPC-
C</TITLE></HEAD><BODY>\
<p>You did something bad. The error message
was:</p>\
<PRE>%s</PRE>\
<p>Either hit the "back" button on your browser and fix
the problem, \
or hit the "Quit" button below to terminate this session.
</p><HR>\
<p><FORM ACTION="%s" METHOD="GET">\
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\
<INPUT TYPE="submit" NAME="b"
VALUE="Quit">\
</FORM></p></BODY></HTML>\r\n"

/* If TP application terminated abnormally then use this
format. */
#define luxerr "\
<HTML><HEAD><TITLE>ERROR: Tuxedo
</TITLE></HEAD><BODY>\
<p>The database could not process your request. \
tpcall terminated abnormally.</p>\
<HR><PRE>%s</PRE><HR>\
<FORM ACTION="%s" METHOD="GET">\
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\
<INPUT TYPE="submit" NAME="b"
VALUE="Quit">\
</BODY></HTML>"

/* If Oracle application terminated abnormally then use
this format. */
#define oraerr "\
<HTML><HEAD><TITLE>ERROR: ORACLE
</TITLE></HEAD><BODY>\
<p>The database could not process your request. \
Transaction terminated abnormally.</p>\
<HR><PRE>%s</PRE><HR>\
<FORM ACTION="%s" METHOD="GET">\
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\
<INPUT TYPE="submit" NAME="b"
VALUE="Quit">\
</BODY></HTML>"

/* If SymfoWare application terminated abnormally then
use this format. */
#define symfoerr "\
<HTML><HEAD><TITLE>ERROR:
SYMFOWARE</TITLE></HEAD><BODY>\
<p>The database could not process your request. \
Transaction terminated abnormally.</p>\
<HR><PRE>%s</PRE><HR>\
<FORM ACTION="%s" METHOD="GET">\
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\
<INPUT TYPE="submit" NAME="b"
VALUE="Quit">\
</BODY></HTML>"

/* If SymfoWare application terminated abnormally then
use this format. */
#define symfoerr "\
<HTML><HEAD><TITLE>ERROR:
SYMFOWARE</TITLE></HEAD><BODY>\
<p>The database could not process your request. \
Transaction terminated abnormally.</p>\
<HR><PRE>%s</PRE><HR>\
<FORM ACTION="%s" METHOD="GET">\
<INPUT TYPE="hidden" NAME="c" VALUE=%d>\
<INPUT TYPE="submit" NAME="b"
VALUE="Quit">\
</BODY></HTML>"

/* If TPINIT() abnormally then use this format. */

```

```

#define luxerr "\
<HTML><HEAD><TITLE>ERROR: Tuxedo-init
</TITLE></HEAD><BODY>\
<p>The database could not process your request. \
%s terminated abnormally.</p>\
</BODY></HTML>"

```

**File: trans.h**

```

/* =====
=====+
FILENAME : trans.h
the work struct according to transaction is declared.

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

#ifndef Symfo // if DB-Server is not SymfoWare

/* New order struct */
struct newinstruct {
    int w_id;
    int d_id;
    int c_id;
    int ol_i_id[15];
    int ol_supply_w_id[15];
    int ol_quantity[15];
};

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

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

/* Payment struct */
struct payinstruct {
    int w_id;
    int d_id;
    int c_w_id;
    int c_d_id;
    int c_id;
    int bylastname;
    float h_amount; /* old-tool.kit */
    int h_amount;

```

```

    char c_last[17];
};

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

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

/* Order status struct */
struct ordinstruct {
    int w_id;
    int d_id;
    int c_id;
    int bylastname;
    char c_last[17];
};

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

```



```

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

/* Delivery struct */
struct delinstruct {
    int w_id;
    int o_carrier_id;
    long qtime;
    long uqtime;
    int in_timing_int;
};

struct deloutstruct {
    int terror;
    int retry;
};

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

/* Stock level struct */
struct stoinstruct {
    int w_id;
    int d_id;
    int threshold;
};

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

struct stostruct {
    int tran_kind;
    struct stoinstruct stoin;
    struct stooutstruct stoout;
};

/* Client context area (oracle web server) */

typedef struct {
    void *trans_b; /* pointer of interface area with TP
application */
    int prt_cnt; /* print counter : for debug */
    int clent_num; /* maximam client machine
number */
    int max_user; /* maximam user number */
    int ott_num; /* maximam TP applicaton
program of 1 client */
    int clent[MAXCLIENT][2]; /* client machine
information */
    int ott [MAXCLIENT][MAXOTT]; /* TP application
program information*/
}tpc_struct;

#endif // IF DB is not SymfoWare.

```

```

/* RTE - Client interface struct */
typedef struct {
    char *button,
    *cookie,
    *form,
    *O_CARRIER_ID,
    *threshold,
    *D_ID,
    *C_ID,
    *C_W_ID,
    *C_D_ID,
    *C_LAST,
    *H_AMOUNT,
    *OL_SUPPLY_W_ID[15],
    *OL_I_ID[15],
    *OL_QUANTITY[15];
}rte_input_data;

```



# Appendix B: Server Source Code

## File: bench1.h

```

/* bench1.h */

#define DIST_PER_WARE 10

EXEC SQL BEGIN DECLARE SECTION;
short w_id;
char w_name[11];
char w_street_1[21];
char w_street_2[21];
char w_city[21];
char w_state[3];
char w_zip[10];
long w_tax;
double w_ytd;

short d_id;
char d_name[11];
char d_street_1[21];
char d_street_2[21];
char d_city[21];
char d_state[3];
char d_zip[10];
long d_tax;
long d_ytd; /* add 96.8.13 */
long d_next_o_id;

/*short c_id;*/
/*int c_id; 960823*/
long c_id;
short c_d_id;
short c_w_id;
char c_first[17];
char c_middle[3];
char c_last[17];
char c_street_1[21];
char c_street_2[21];
char c_city[21];
char c_state[3];
char c_zip[10];
char c_phone[17];
/*dtime_t c_since;*/
/*double c_since; 960821*/
/*char c_since[14]; 1997.01.27 */
char c_since[15];
char c_credit[3];
double c_credit_lim;
/*long c_credit_lim;*/
long c_discount;
double c_balance;
/*long c_balance;*/
double c_ytd_payment;
short c_payment_cnt;
/*long c_payment_cnt;*/

```

```

char c_data[501];

/*dtime_t h_date;*/
/*double h_date; 960821*/
/*char h_date[14]; 1997.01.27 */
char h_date[15];
long h_amount;
char h_data[25];

long no_o_id;

long o_id;
/*dtime_t o_entry_d;*/
/*double o_entry_d; 960821*/
/*char o_entry_d[14]; 1997.01.27 */
char o_entry_d[15]; /*dec 1997.01.27 */
short o_carrier_id;
short o_ol_cnt;
short o_all_local;

long ol_number;
long ol_i_id;
short ol_supply_w_id;
/*dtime_t ol_delivery_d;*/
/*double ol_delivery_d; 960821*/
/*char ol_delivery_d[14]; 1997.01.27 */
char ol_delivery_d[15];
short ol_quantity;
long ol_amount;
/*double ol_amount;*/
char ol_dist_info[25]; /* 1997.01.27 */

long s_quantity;
char s_dist_01[25]; /* 1997.01.27 */
char s_dist_02[25]; /* 1997.01.27 */
char s_dist_03[25]; /* 1997.01.27 */
char s_dist_04[25]; /* 1997.01.27 */
char s_dist_05[25]; /* 1997.01.27 */
char s_dist_06[25]; /* 1997.01.27 */
char s_dist_07[25]; /* 1997.01.27 */
char s_dist_08[25]; /* 1997.01.27 */
char s_dist_09[25]; /* 1997.01.27 */
char s_dist_10[25]; /* 1997.01.27 */
double s_ytd;
long s_order_cnt;
long s_remote_cnt;
char s_data[51];

/*long i_price[15]; */
/*char i_data[15][51]; */
/*char i_name[15][25]; */
long i_priceh;
char i_datah[51];
char i_nameh[25];

EXEC SQL END DECLARE SECTION;

File: bench2.h

/*
    bench2.h : Data structure for message
    send/receive

```

```

Version Beta 1995/02/24
Version Beta2 1995/03/06
Version Beta2a 1995/03/14
Version Beta3 1995/03/23
Version 1.0 1998/02/24 for Solaris 2.x
*/

typedef struct {
    int tx_type;
    int C_R;

    int errorpos; /* 1997.03.13 */
    int sqlstate; /* 1997.03.13 */

    short w_id;

    short d_id;

    short o_carrier_id;

    long startsec;
    long startusec;
} delivery_trans;

typedef struct {
    int tx_type;
    int C_R;

    int errorpos; /* 1997.03.13 */
    int sqlstate; /* 1997.03.13 */

    long threshold;
    long low_stock;

    short w_id;

    short d_id;
} stocklvl_trans;

typedef struct {
    int tx_type;
    int C_R;

    int errorpos; /* 1997.03.13 */
    int sqlstate; /* 1997.03.13 */

    short w_id;
    char w_street_1[21];
    char w_street_2[21];
    char w_city[21];
    char w_state[3];
    char w_zip[10];

    short d_id;
    char d_street_1[21];
    char d_street_2[21];
    char d_city[21];
    char d_state[3];
    char d_zip[10];

    /*
        short c_id;*/
    int c_id;
    short c_d_id;
    short c_w_id;
    char c_first[17];

```

```

char c_middle[3];
char c_last[17];
char c_street_1[21];
char c_street_2[21];
char c_city[21];
char c_state[3];
char c_zip[10];
char c_phone[17];
double c_since;
char c_credit[3];
double c_credit_lim;
/*long c_credit_lim;*/
long c_discount;
double c_balance;
/*long c_balance;*/
char c_data[501];

double h_date;
long h_amount;
} payment_trans;

typedef struct {
int tx_type;
int C_R;

int errorpos; /* 1997.03.13 */
int sqlstate; /* 1997.03.13 */

short w_id;

short d_id;

/* short c_id;*/
int c_id;
char c_first[17];
char c_middle[3];
char c_last[17];
double c_balance;
/*long c_balance;*/

long o_id;
double o_entry_d;
short o_carrier_id;
short o_ol_cnt;

long ol_i_id[15];
short ol_supply_w_id[15];
double ol_delivery_d[15];
short ol_quantity[15];
long ol_amount[15];
/*double ol_amount[15];*/
} orderstat_trans;

typedef struct {
int tx_type;
int C_R;

int errorpos; /* 1997.03.13 */
int sqlstate; /* 1997.03.13 */

char brand_generic[15];
long i_price[15];
/*double i_price[15];*/
char i_name[15][25];
long total_amount;
/*double total_amount;*/

short w_id;
long w_tax;

short d_id;
char d_name[11];
char d_street_1[21];
char d_street_2[21];
char d_city[21];
char d_state[3];
char d_zip[10];
long d_tax;
long d_next_o_id;

/* short c_id;*/
int c_id;
short c_d_id;
short c_w_id;
char c_first[17];
char c_middle[3];

short w_id;
long w_tax;

short d_id;
long d_tax;

/* short c_id;*/
int c_id;
char c_last[17];
char c_credit[3];
long c_discount;

long o_id;
double o_entry_d;
short o_ol_cnt;

long ol_i_id[15];
short ol_supply_w_id[15];
short ol_quantity[15];
/*double ol_amount[15];*/

long s_quantity[15];
} neworder_trans;

#ifdef 0

typedef struct {
int tx_type;
int C_R;
long threshold;
long low_stock;
char brand_generic[15];
long i_price[15];
/*double i_price[15];*/
char i_name[15][25];
long total_amount;
/*double total_amount;*/
double pl_delivery_d[15];

short w_id;
char w_name[11];
char w_street_1[21];
char w_street_2[21];
char w_city[21];
char w_state[3];
char w_zip[10];
long w_tax;
double w_ytd;

short d_id;
char d_name[11];
char d_street_1[21];
char d_street_2[21];
char d_city[21];
char d_state[3];
char d_zip[10];
long d_tax;
long d_next_o_id;

/* short c_id;*/
int c_id;
short c_d_id;
short c_w_id;
char c_first[17];
char c_middle[3];

long ol_number;
long ol_i_id[15];
short ol_supply_w_id[15];
double ol_delivery_d[15];
short ol_quantity[15];
long ol_amount[15];
/*double ol_amount[15];*/
char ol_dist_info[24];

long s_quantity[15];
char s_dist_01[24];
char s_dist_02[24];
char s_dist_03[24];
char s_dist_04[24];
char s_dist_05[24];
char s_dist_06[24];
char s_dist_07[24];
char s_dist_08[24];
char s_dist_09[24];
char s_dist_10[24];
double s_ytd;
long s_order_cnt;
long s_remote_cnt;
char s_data[51];
} trans_buf;

main()
{
printf( "%d %d %d %d %d %d\n",
sizeof( delivery_trans ),
sizeof( stocklvl_trans ),
sizeof( payment_trans ),
sizeof( orderstat_trans ),
sizeof( neworder_trans ),
sizeof( trans_buf ) );
return 0;
}

```

```

}

#endif

File: bench3.h

/* ORDERLINE  INSERT */

typedef struct{
    long ol_o_id;
    short ol_d_id;
    short ol_w_id;
    long ol_number;
    long ol_i_id;
    short ol_supply_w_id;
/* char ol_delivery_d[14]; 960912 */
    short ol_quantity;
/* char dummy1[2]; 960912 */
    long ol_amount;
    char ol_dist_info[25];
    char dummy2[3];
}lnk_ol;

```

**File: cpl\_sqlcc.bat**

```

@if "%1" == "" goto HELP
@if "%2" == "" goto HELP
@if not "%3" == "" goto HELP

set SRCPH=%1
sqlcc -W96 -I %SRCPH% -t %SRCPH% -I
%SRCPH%\inc %SRCPH%\%2 /I %SRCPH%\inc /c

@goto END

@REM #
@REM #
@REM #
:HELP
@echo *****
@echo ** cpl source_directory source
@echo *****
:END

```

**File: fldtbl.h**

```

/* fname  fldid  */
/* ----- */
#define FML_TERM ((FLDID)10193) /*
number: 2001 type: long */
#define FML_TRAN ((FLDID)10194) /* number:
2002 type: long */
#define FML_DATA ((FLDID)51155) /* number:
2003 type: carry */

```

**File: OLINSERT.scob**

```

000100 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. OLINSERT.
000300 AUTHOR. H.HARA.
000400 DATE-WRITTEN. 96.08.27.
000500 ENVIRONMENT DIVISION.
000600 CONFIGURATION SECTION.
000900 DATA DIVISION.
001000*
001100 WORKING-STORAGE SECTION.
002200 01 CTR PIC S9(04) COMP-5.
002300*
002400 EXEC SQL BEGIN DECLARE SECTION
END-EXEC.
002500 01 G-OL.
002600 02 REC-OL OCCURS 15.
001500 03 OL-O-ID PIC S9(09) COMP-5
SYNC.
001600 03 OL-D-ID PIC S9(04) COMP-5
SYNC.
001700 03 OL-W-ID PIC S9(04) COMP-5
SYNC.
001800 03 OL-NUMBER PIC S9(09) COMP-5
SYNC.
001500 03 OL-I-ID PIC S9(09) COMP-5 SYNC.
001600 03 OL-SUPPLY-W-ID PIC S9(04) COMP-5
SYNC.
001700* 03 OL-DELIVERY-D PIC X(14)
001800 03 OL-QUANTITY PIC S9(04) COMP-5
SYNC.
001700* 03 DUMMY1 PIC X(02)
001700 03 OL-AMOUNT PIC S9(09) COMP-5
SYNC.
001800 03 OL-DIST-INFO PIC X(24)
001700* 03 DUMMY2 PIC X(04)
001000*
004100 01 O-OL-CNT PIC S9(04) COMP-5
SYNC.
001000*
004100 01 SQLSTATE PIC X(05).
004200 01 SQLMSG PIC X(256).
004300 EXEC SQL END DECLARE SECTION
END-EXEC.
004400*
001100 LINKAGE SECTION.
001200 01 LIN-OL.
001400 02 LIN-REC-OL OCCURS 15.
001500 03 LIN-OL-O-ID PIC S9(09) COMP-5
SYNC.
001600 03 LIN-OL-D-ID PIC S9(04) COMP-5
SYNC.
001700 03 LIN-OL-W-ID PIC S9(04) COMP-5
SYNC.
001800 03 LIN-OL-NUMBER PIC S9(09)
COMP-5 SYNC.
001500 03 LIN-OL-I-ID PIC S9(09) COMP-5
SYNC.
001600 03 LIN-OL-SUPPLY-W-ID PIC S9(04)
COMP-5 SYNC.
001700* 03 LIN-OL-DELIVERY-D PIC X(14)
001800 03 LIN-OL-QUANTITY PIC S9(04)
COMP-5 SYNC.
001700* 03 LIN-DUMMY1 PIC X(02)
001700 03 LIN-OL-AMOUNT PIC S9(09)
COMP-5 SYNC.
001800 03 LIN-OL-DIST-INFO PIC X(25)
001700 03 LIN-DUMMY2 PIC X(03)

```

```

001000*
001400 77 LIN-O-OL-CNT PIC S9(04) COMP-5
SYNC.
001000*
004100 77 LIN-SQLSTATE PIC X(05).
004500*-----*
004600 PROCEDURE DIVISION USING LIN-OL LIN-
O-OL-CNT LIN-SQLSTATE.
004700*-----*
004800 P-START.
004900 DISPLAY *** OLINSERT START *** UPON
SYSOUT.
005000** EXEC SQL START SQL END-EXEC.
005100*-----*
006700 INITIALIZE CTR SQLSTATE.
001500 MOVE LIN-O-OL-CNT TO O-OL-CNT.
005200 PERFORM TEST BEFORE VARYING CTR
FROM 1 BY 1
005200 UNTIL CTR > LIN-O-OL-CNT
001500** MOVE LIN-REC-OL(CTR) TO REC-
OL(CTR)
001500 MOVE LIN-OL-O-ID(CTR) TO OL-O-
ID(CTR)
001600 MOVE LIN-OL-D-ID(CTR) TO OL-D-
ID(CTR)
001700 MOVE LIN-OL-W-ID(CTR) TO OL-W-
ID(CTR)
001800 MOVE LIN-OL-NUMBER(CTR) TO OL-
NUMBER(CTR)
001500 MOVE LIN-OL-I-ID(CTR) TO OL-I-
ID(CTR)
001600 MOVE LIN-OL-SUPPLY-W-ID(CTR) TO
OL-SUPPLY-W-ID(CTR)
001700** MOVE LIN-OL-DELIVERY-D(CTR) TO
OL-DELIVERY-D(CTR)
001800 MOVE LIN-OL-QUANTITY(CTR) TO OL-
QUANTITY(CTR)
001700 MOVE LIN-OL-AMOUNT(CTR) TO OL-
AMOUNT(CTR)
001800 MOVE LIN-OL-DIST-INFO(CTR) TO OL-
DIST-INFO(CTR)
011400** DISPLAY ***** CTR ***** " CTR
018100 DISPLAY "OL-O-ID =" OL-O-ID(CTR)
018100** DISPLAY "OL-D-ID =" OL-D-ID(CTR)
018100** DISPLAY "OL-W-ID =" OL-W-
ID(CTR)
018100** DISPLAY "OL-NUMBER =" OL-
NUMBER(CTR)
018100** DISPLAY "OL-I-ID =" OL-I-ID(CTR)
018100** DISPLAY "OL-SUPPLY-W-ID =" OL-
SUPPLY-W-ID(CTR)
018100** DISPLAY "OL-DELIVERY-D =" OL-
DELIVERY-D(CTR)
018100** DISPLAY "OL-QUANTITY =" OL-
QUANTITY(CTR)
018100** DISPLAY "OL-AMOUNT =" OL-
AMOUNT(CTR)
018100** DISPLAY "OL-DIST-INFO =" OL-DIST-
INFO(CTR)
005200 END-PERFORM.
005100*-----*
015100** EXEC SQL INSERT INTO
TPCC_SCHEMA.ORDERLINE
015300** VALUES (:G-OL.REC-OL) FOR
:O-OL-CNT
015100 EXEC SQL INSERT INTO
TPCC_SCHEMA.ORDERLINE(

```

```

015100
OL_O_ID,OL_D_ID,OL_W_ID,OL_NUMBER,OL_I_ID,
001600
OL_SUPPLY_W_ID,OL_QUANTITY,OL_AMOUNT,
001800     OL_DIST_INFO)
015300     VALUES (:G-OL.REC-OL) FOR
:O-OL-CNT
015400 END-EXEC.
015400*
015400 MOVE SQLSTATE TO LIN-SQLSTATE.
015400*
016600 IF SQLSTATE = "00000"
016700 MOVE 0 TO PROGRAM-STATUS
018000 ELSE
016700 MOVE 1 TO PROGRAM-STATUS
011400** DISPLAY "SQLSTATE =" SQLSTATE
018100** DISPLAY "SQLMSG =" SQLMSG(1:256)
017700** EXEC SQL
017800**     COMMIT WORK
017900** END-EXEC
018600 END-IF.
018900*-----*
019000 P-END.
019100** DISPLAY *** OLINSERT END ***.
019200 P-ERR.
019300** EXEC SQL END SQL END-EXEC.
019400 EXIT PROGRAM.
019400 END PROGRAM OLINSERT.

```

**File: stored.h**

```

/*-----*/
/* stored.h : sql declare section for */
/* stored proceduer call */
/* */
/* 1996.9.6 s.sato */
/*-----*/
EXEC SQL BEGIN DECLARE SECTION;
char state[6];
char sqlmsg[257];
short sqlmsg_ind;
int errorpos;

short w_name_ind;
short w_street_1_ind;
short w_street_2_ind;
short w_city_ind;
short w_state_ind;
short w_zip_ind;
short w_tax_ind;

short d_id_ind;
short d_name_ind;
short d_street_1_ind;
short d_street_2_ind;
short d_city_ind;
short d_state_ind;
short d_zip_ind;
short d_tax_ind;

short c_id_ind;
short c_first_ind;
short c_middle_ind;
short c_last_ind;
short c_street_1_ind;
short c_street_2_ind;

```

```

short c_city_ind;
short c_state_ind;
short c_zip_ind;
short c_phone_ind;
short c_credit_ind;
short c_credit_lim_ind;
short c_discount_ind;
short c_balance_ind;
short c_ytd_payment_ind;
short c_payment_cnt_ind;
short c_since_ind;
varchar c_datax[501];
short c_data_ind ;

short o_id_ind;
short o_entry_d_ind;
short o_carrier_id_ind;
short o_all_local_ind;

short no_o_id_ind;

long ol_i_id1;
long ol_i_id2;
long ol_i_id3;
long ol_i_id4;
long ol_i_id5;
long ol_i_id6;
long ol_i_id7;
long ol_i_id8;
long ol_i_id9;
long ol_i_id10;
long ol_i_id11;
long ol_i_id12;
long ol_i_id13;
long ol_i_id14;
long ol_i_id15;
short ol_i_id1_ind;
short ol_i_id2_ind;
short ol_i_id3_ind;
short ol_i_id4_ind;
short ol_i_id5_ind;
short ol_i_id6_ind;
short ol_i_id7_ind;
short ol_i_id8_ind;
short ol_i_id9_ind;
short ol_i_id10_ind;
short ol_i_id11_ind;
short ol_i_id12_ind;
short ol_i_id13_ind;
short ol_i_id14_ind;
short ol_i_id15_ind;
short ol_supply_w_id1;
short ol_supply_w_id2;
short ol_supply_w_id3;
short ol_supply_w_id4;
short ol_supply_w_id5;
short ol_supply_w_id6;
short ol_supply_w_id7;
short ol_supply_w_id8;
short ol_supply_w_id9;
short ol_supply_w_id10;
short ol_supply_w_id11;
short ol_supply_w_id12;
short ol_supply_w_id13;
short ol_supply_w_id14;
short ol_supply_w_id15;
short ol_supply_w_id1_ind;
short ol_supply_w_id2_ind;

```

```

short ol_supply_w_id3_ind;
short ol_supply_w_id4_ind;
short ol_supply_w_id5_ind;
short ol_supply_w_id6_ind;
short ol_supply_w_id7_ind;
short ol_supply_w_id8_ind;
short ol_supply_w_id9_ind;
short ol_supply_w_id10_ind;
short ol_supply_w_id11_ind;
short ol_supply_w_id12_ind;
short ol_supply_w_id13_ind;
short ol_supply_w_id14_ind;
short ol_supply_w_id15_ind;
short ol_quantity1;
short ol_quantity2;
short ol_quantity3;
short ol_quantity4;
short ol_quantity5;
short ol_quantity6;
short ol_quantity7;
short ol_quantity8;
short ol_quantity9;
short ol_quantity10;
short ol_quantity11;
short ol_quantity12;
short ol_quantity13;
short ol_quantity14;
short ol_quantity15;
short ol_quantity1_ind;
short ol_quantity2_ind;
short ol_quantity3_ind;
short ol_quantity4_ind;
short ol_quantity5_ind;
short ol_quantity6_ind;
short ol_quantity7_ind;
short ol_quantity8_ind;
short ol_quantity9_ind;
short ol_quantity10_ind;
short ol_quantity11_ind;
short ol_quantity12_ind;
short ol_quantity13_ind;
short ol_quantity14_ind;
short ol_quantity15_ind;
int ol_amount1;
int ol_amount2;
int ol_amount3;
int ol_amount4;
int ol_amount5;
int ol_amount6;
int ol_amount7;
int ol_amount8;
int ol_amount9;
int ol_amount10;
int ol_amount11;
int ol_amount12;
int ol_amount13;
int ol_amount14;
int ol_amount15;
short ol_amount1_ind;
short ol_amount2_ind;
short ol_amount3_ind;
short ol_amount4_ind;
short ol_amount5_ind;
short ol_amount6_ind;
short ol_amount7_ind;
short ol_amount8_ind;
short ol_amount9_ind;
short ol_amount10_ind;

```

short	ol_amount11_ind;	char	s_dist4[25];	char	i_nameh12[25];
short	ol_amount12_ind;	char	s_dist5[25];	char	i_nameh13[25];
short	ol_amount13_ind;	char	s_dist6[25];	char	i_nameh14[25];
short	ol_amount14_ind;	char	s_dist7[25];	char	i_nameh15[25];
short	ol_amount15_ind;	char	s_dist8[25];	short	i_nameh1_ind;
char	ol_delivery_d1[14];	char	s_dist9[25];	short	i_nameh2_ind;
char	ol_delivery_d2[14];	char	s_dist10[25];	short	i_nameh3_ind;
char	ol_delivery_d3[14];	char	s_dist11[25];	short	i_nameh4_ind;
char	ol_delivery_d4[14];	char	s_dist12[25];	short	i_nameh5_ind;
char	ol_delivery_d5[14];	char	s_dist13[25];	short	i_nameh6_ind;
char	ol_delivery_d6[14];	char	s_dist14[25];	short	i_nameh7_ind;
char	ol_delivery_d7[14];	char	s_dist15[25];	short	i_nameh8_ind;
char	ol_delivery_d8[14];	short	s_dist1_ind;	short	i_nameh9_ind;
char	ol_delivery_d9[14];	short	s_dist2_ind;	short	i_nameh10_ind;
char	ol_delivery_d10[14];	short	s_dist3_ind;	short	i_nameh11_ind;
char	ol_delivery_d11[14];	short	s_dist4_ind;	short	i_nameh12_ind;
char	ol_delivery_d12[14];	short	s_dist5_ind;	short	i_nameh13_ind;
char	ol_delivery_d13[14];	short	s_dist6_ind;	short	i_nameh14_ind;
char	ol_delivery_d14[14];	short	s_dist7_ind;	short	i_nameh15_ind;
char	ol_delivery_d15[14];	short	s_dist8_ind;	char	i_datah1[51];
short	ol_delivery_d1_ind;	short	s_dist9_ind;	char	i_datah2[51];
short	ol_delivery_d2_ind;	short	s_dist10_ind;	char	i_datah3[51];
short	ol_delivery_d3_ind;	short	s_dist11_ind;	char	i_datah4[51];
short	ol_delivery_d4_ind;	short	s_dist12_ind;	char	i_datah5[51];
short	ol_delivery_d5_ind;	short	s_dist13_ind;	char	i_datah6[51];
short	ol_delivery_d6_ind;	short	s_dist14_ind;	char	i_datah7[51];
short	ol_delivery_d7_ind;	short	s_dist15_ind;	char	i_datah8[51];
short	ol_delivery_d8_ind;	long	i_priceh1;	char	i_datah9[51];
short	ol_delivery_d9_ind;	long	i_priceh2;	char	i_datah10[51];
short	ol_delivery_d10_ind;	long	i_priceh3;	char	i_datah11[51];
short	ol_delivery_d11_ind;	long	i_priceh4;	char	i_datah12[51];
short	ol_delivery_d12_ind;	long	i_priceh5;	char	i_datah13[51];
short	ol_delivery_d13_ind;	long	i_priceh6;	char	i_datah14[51];
short	ol_delivery_d14_ind;	long	i_priceh7;	char	i_datah15[51];
short	ol_delivery_d15_ind;	long	i_priceh8;	short	i_datah1_ind;
long	s_quantity1;	long	i_priceh9;	short	i_datah2_ind;
long	s_quantity2;	long	i_priceh10;	short	i_datah3_ind;
long	s_quantity3;	long	i_priceh11;	short	i_datah4_ind;
long	s_quantity4;	long	i_priceh12;	short	i_datah5_ind;
long	s_quantity5;	long	i_priceh13;	short	i_datah6_ind;
long	s_quantity6;	long	i_priceh14;	short	i_datah7_ind;
long	s_quantity7;	long	i_priceh15;	short	i_datah8_ind;
long	s_quantity8;	short	i_priceh1_ind;	short	i_datah9_ind;
long	s_quantity9;	short	i_priceh2_ind;	short	i_datah10_ind;
long	s_quantity10;	short	i_priceh3_ind;	short	i_datah11_ind;
long	s_quantity11;	short	i_priceh4_ind;	short	i_datah12_ind;
long	s_quantity12;	short	i_priceh5_ind;	short	i_datah13_ind;
long	s_quantity13;	short	i_priceh6_ind;	short	i_datah14_ind;
long	s_quantity14;	short	i_priceh7_ind;	short	i_datah15_ind;
long	s_quantity15;	short	i_priceh8_ind;	int	result_o_id1;
short	s_quantity1_ind;	short	i_priceh9_ind;	int	result_o_id2;
short	s_quantity2_ind;	short	i_priceh10_ind;	int	result_o_id3;
short	s_quantity3_ind;	short	i_priceh11_ind;	int	result_o_id4;
short	s_quantity4_ind;	short	i_priceh12_ind;	int	result_o_id5;
short	s_quantity5_ind;	short	i_priceh13_ind;	int	result_o_id6;
short	s_quantity6_ind;	short	i_priceh14_ind;	int	result_o_id7;
short	s_quantity7_ind;	short	i_priceh15_ind;	int	result_o_id8;
short	s_quantity8_ind;	char	i_nameh1[25];	int	result_o_id9;
short	s_quantity9_ind;	char	i_nameh2[25];	int	result_o_id10;
short	s_quantity10_ind;	char	i_nameh3[25];	int	result_o_id11;
short	s_quantity11_ind;	char	i_nameh4[25];	int	result_o_id12;
short	s_quantity12_ind;	char	i_nameh5[25];	int	result_o_id13;
short	s_quantity13_ind;	char	i_nameh6[25];	int	result_o_id14;
short	s_quantity14_ind;	char	i_nameh7[25];	int	result_o_id15;
short	s_quantity15_ind;	char	i_nameh8[25];	short	result_o_id1_ind;
char	s_dist1[25];	char	i_nameh9[25];	short	result_o_id2_ind;
char	s_dist2[25];	char	i_nameh10[25];	short	result_o_id3_ind;
char	s_dist3[25];	char	i_nameh11[25];	short	result_o_id4_ind;

```

short result_o_id5_ind;
short result_o_id6_ind;
short result_o_id7_ind;
short result_o_id8_ind;
short result_o_id9_ind;
short result_o_id10_ind;
short result_o_id11_ind;
short result_o_id12_ind;
short result_o_id13_ind;
short result_o_id14_ind;
short result_o_id15_ind;
short notfound;
short notfound_ind;
short item_notfound;
short item_notfound_ind;
short low_stock_ind;
EXEC SQL END DECLARE SECTION;

long *ol_i_id_str[] = { (long *)&ol_i_id1 ,
    (long *)&ol_i_id2 ,
    (long *)&ol_i_id3 ,
    (long *)&ol_i_id4 ,
    (long *)&ol_i_id5 ,
    (long *)&ol_i_id6 ,
    (long *)&ol_i_id7 ,
    (long *)&ol_i_id8 ,
    (long *)&ol_i_id9 ,
    (long *)&ol_i_id10 ,
    (long *)&ol_i_id11 ,
    (long *)&ol_i_id12 ,
    (long *)&ol_i_id13 ,
    (long *)&ol_i_id14 ,
    (long *)&ol_i_id15 ,
    NULL};
short *ol_supply_w_id_str[] = { (short
*)&ol_supply_w_id1 ,
    (short *)&ol_supply_w_id2 ,
    (short *)&ol_supply_w_id3 ,
    (short *)&ol_supply_w_id4 ,
    (short *)&ol_supply_w_id5 ,
    (short *)&ol_supply_w_id6 ,
    (short *)&ol_supply_w_id7 ,
    (short *)&ol_supply_w_id8 ,
    (short *)&ol_supply_w_id9 ,
    (short *)&ol_supply_w_id10 ,
    (short *)&ol_supply_w_id11 ,
    (short *)&ol_supply_w_id12 ,
    (short *)&ol_supply_w_id13 ,
    (short *)&ol_supply_w_id14 ,
    (short *)&ol_supply_w_id15 ,
    NULL};
short *ol_quantity_str[] = { (short *)&ol_quantity1 ,
    (short *)&ol_quantity2 ,
    (short *)&ol_quantity3 ,
    (short *)&ol_quantity4 ,
    (short *)&ol_quantity5 ,
    (short *)&ol_quantity6 ,
    (short *)&ol_quantity7 ,
    (short *)&ol_quantity8 ,
    (short *)&ol_quantity9 ,
    (short *)&ol_quantity10 ,
    (short *)&ol_quantity11 ,
    (short *)&ol_quantity12 ,
    (short *)&ol_quantity13 ,
    (short *)&ol_quantity14 ,
    (short *)&ol_quantity15 ,
    NULL};
int *ol_amount_str[] = { (int *)&ol_amount1 ,
    (int *)&ol_amount2 ,
    (int *)&ol_amount3 ,
    (int *)&ol_amount4 ,
    (int *)&ol_amount5 ,
    (int *)&ol_amount6 ,
    (int *)&ol_amount7 ,
    (int *)&ol_amount8 ,
    (int *)&ol_amount9 ,
    (int *)&ol_amount10 ,
    (int *)&ol_amount11 ,
    (int *)&ol_amount12 ,
    (int *)&ol_amount13 ,
    (int *)&ol_amount14 ,
    (int *)&ol_amount15 ,
    NULL};
char *ol_delivery_d_str[] = { (char
*)&ol_delivery_d1[0]),
    (char *)&ol_delivery_d2 ,
    (char *)&ol_delivery_d3 ,
    (char *)&ol_delivery_d4 ,
    (char *)&ol_delivery_d5 ,
    (char *)&ol_delivery_d6 ,
    (char *)&ol_delivery_d7 ,
    (char *)&ol_delivery_d8 ,
    (char *)&ol_delivery_d9 ,
    (char *)&ol_delivery_d10 ,
    (char *)&ol_delivery_d11 ,
    (char *)&ol_delivery_d12 ,
    (char *)&ol_delivery_d13 ,
    (char *)&ol_delivery_d14 ,
    (char *)&ol_delivery_d15 ,
    NULL};
long *s_quantity_str[] = { (long *)&s_quantity1 ,
    (long *)&s_quantity2 ,
    (long *)&s_quantity3 ,
    (long *)&s_quantity4 ,
    (long *)&s_quantity5 ,
    (long *)&s_quantity6 ,
    (long *)&s_quantity7 ,
    (long *)&s_quantity8 ,
    (long *)&s_quantity9 ,
    (long *)&s_quantity10 ,
    (long *)&s_quantity11 ,
    (long *)&s_quantity12 ,
    (long *)&s_quantity13 ,
    (long *)&s_quantity14 ,
    (long *)&s_quantity15 ,
    NULL};
char *s_dist_str[] = { (char *)&(s_dist1[0]) ,
    (char *)&s_dist2 ,
    (char *)&s_dist3 ,
    (char *)&s_dist4 ,
    (char *)&s_dist5 ,
    (char *)&s_dist6 ,
    (char *)&s_dist7 ,
    (char *)&s_dist8 ,
    (char *)&s_dist9 ,
    (char *)&s_dist10 ,
    (char *)&s_dist11 ,
    (char *)&s_dist12 ,
    (char *)&s_dist13 ,
    (char *)&s_dist14 ,
    (char *)&s_dist15 ,
    NULL};
long *i_priceh_str[] = { (long *)&i_priceh1 ,
    (long *)&i_priceh2 ,
    (long *)&i_priceh3 ,
    (long *)&i_priceh4 ,
    (long *)&i_priceh5 ,
    (long *)&i_priceh6 ,
    (long *)&i_priceh7 ,
    (long *)&i_priceh8 ,
    (long *)&i_priceh9 ,
    (long *)&i_priceh10 ,
    (long *)&i_priceh11 ,
    (long *)&i_priceh12 ,
    (long *)&i_priceh13 ,
    (long *)&i_priceh14 ,
    (long *)&i_priceh15 ,
    NULL};
char *i_nameh_str[] = { (char *)&(i_nameh1[0]) ,
    (char *)&i_nameh2 ,
    (char *)&i_nameh3 ,
    (char *)&i_nameh4 ,
    (char *)&i_nameh5 ,
    (char *)&i_nameh6 ,
    (char *)&i_nameh7 ,
    (char *)&i_nameh8 ,
    (char *)&i_nameh9 ,
    (char *)&i_nameh10 ,
    (char *)&i_nameh11 ,
    (char *)&i_nameh12 ,
    (char *)&i_nameh13 ,
    (char *)&i_nameh14 ,
    (char *)&i_nameh15 ,
    NULL};
char *i_datah_str[] = { (char *)&(i_datah1[0]) ,
    (char *)&i_datah2 ,
    (char *)&i_datah3 ,
    (char *)&i_datah4 ,
    (char *)&i_datah5 ,
    (char *)&i_datah6 ,
    (char *)&i_datah7 ,
    (char *)&i_datah8 ,
    (char *)&i_datah9 ,
    (char *)&i_datah10 ,
    (char *)&i_datah11 ,
    (char *)&i_datah12 ,
    (char *)&i_datah13 ,
    (char *)&i_datah14 ,
    (char *)&i_datah15 ,
    NULL};
int *result_o_id_str[] = { (int *)&result_o_id1 ,
    (int *)&result_o_id2 ,
    (int *)&result_o_id3 ,
    (int *)&result_o_id4 ,
    (int *)&result_o_id5 ,
    (int *)&result_o_id6 ,
    (int *)&result_o_id7 ,
    (int *)&result_o_id8 ,
    (int *)&result_o_id9 ,
    (int *)&result_o_id10 ,
    (int *)&result_o_id11 ,
    (int *)&result_o_id12 ,
    (int *)&result_o_id13 ,
    (int *)&result_o_id14 ,
    (int *)&result_o_id15 ,
    NULL};
/*-----*/
/* stored2.h : sql declare section for */
/* stored proceduer call */
/* */
/* 1996.10.01 s.sato */
/*-----*/

```



```

EXEC SQL BEGIN DECLARE SECTION ;
varchar s_join[1216] ; /* 1997.01.16
*/
short s_join_ind ;
varchar i_join[1216] ; /* 1997.01.16
*/
short i_join_ind ;
varchar ol_join[571] ;
short ol_join_ind ;
varchar ol_q_join[61] ;
short ol_q_join_ind ;
varchar ol_s_join[61] ;
short ol_s_join_ind ;
varchar ol_i_join[106] ;
short ol_i_join_ind ;
varchar result_join[101] ;
short result_join_ind ;
EXEC SQL END DECLARE SECTION ;

typedef struct
{
short sqllen ;
struct
{
/*char ol_i_id[7] ;
1997.01.13*/
char s_quantity[6] ;
char s_dist[24] ;
char s_data[50] ;
char sapstop[1] ;
} sqlvar[15] ;
} s_join_str ;

typedef struct
{
short sqllen ;
struct
{
/*char ol_i_id[7] ;
1997.01.14*/
char i_price[6] ;
char i_name[24] ;
char i_data[50] ;
char sapstop[1] ;
} sqlvar[15] ;
} i_join_str ;

typedef struct
{
short sqllen ;
struct
{
char ol_i_id[7] ;
char ol_amount[8] ;
char ol_supply_w_id[4] ;
char ol_quantity[4] ;
char ol_delivery_d[14] ;
char sapstop[1] ;
} sqlvar[15] ;
} ol_join_str ;

typedef struct /* 961003 s.sato
*/
{
short sqllen ;
struct
{
char ol_quantity[4] ;
} sqlvar[15] ;
} ol_q_join_str ;

typedef struct /* 961003 s.sato
*/
{
short sqllen ;
struct
{
char ol_i_id[7] ;
} sqlvar[15] ;
} ol_i_join_str ;

typedef struct /* 961003 s.sato
*/
{
short sqllen ;
struct
{
char result_o_id[9] ; /* no_o_id
*/
char sapstop[1] ;
} sqlvar[10] ;
} result_join_str ;

File: tpcc_NT.pc
#ifdef NO_SQL
#else
#define USE_SQL_MODE
#endif

#include <windows.h>
#include <sys/types.h>
#include <time.h>
#include <sys/time.h>
#include <sys/times.h>
#include <stdio.h>
#include <sys/param.h>
#include <sys/ipc.h>
#include <sys/msg.h>
#include <math.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>

#include "atmi.h"
#include "tmenv.h"
#include "bench2.h"
/* 98.03.02 nop */
#include <userlog.h>
/* 98.03.02 */

#ifdef USE_FML /* 98.05.21
*/
#include "fml.h"
#include "fldtbl.h"
#endif

#include "bench3.h"
INSERT 960905 */

/* 98.03.02 */
#define NT
/* (gettimeofday) (GetSystemTime)
(SYSTEMTIME)

include */

#ifdef NT
#include <WYPES.H>
#endif

```

```

/* 98.03.02 */

/* 98.07.01 */
#include <stdio.h>
/* 98.07.01 */

extern void JMPCINT2(),JMPCINT3(); /*
INSERT 960905 */
extern long OLINSETT(lnk_ol *a,short *b,char *c); /*
INSERT 960905 */

EXEC SQL INCLUDE bench1.h;
EXEC SQL INCLUDE stored.h; /*
stored 1996.9.25 sato */
#define INTNULL -32768

/* #define TRACE on */
#define DP userlog
#define RDB_NORMAL 0

/* 98.03.02 */
/* 98.07.07 */
#ifdef NT
//define TIMES GetSystemTime(&systemtime);\
// tp.tv_sec = ((systemtime.wYear -
1970) *365*24*3600) \
//
// +
// ((systemtime.wMonth - 1) *30*24*3600 \
// +
// ((systemtime.wDay - 1) *24*3600 \
// +
// (systemtime.wHour * 3600 \
// +
// (systemtime.wMinute * 60 \
// +
// (systemtime.wSecond ));\
// tp.tv_usec =
systemtime.wMilliseconds * 1000;\
// tv_st_usec=tp.tv_sec;
#define TIMES GetSystemTime(&systemtime);\
yDay = 0;\
switch(systemtime.wMonth -
1){\
    case 11: yDay += 30;\
    case 10: yDay += 31;\
    case 9: yDay += 30;\
    case 8: yDay += 31;\
    case 7: yDay += 31;\
    case 6: yDay += 30;\
    case 5: yDay += 31;\
    case 4: yDay += 30;\
    case 3: yDay += 31;\
    case 2: /* */
        (((systemtime.wYear % 4
== 0) && (systemtime.wYear % 100 != 0)) ||\
        ((systemtime.wYear % 4
== 0) && (systemtime.wYear % 400 == 0)))\
        ?(yDay +=
29): (yDay += 28);\
        case 1: yDay += 31;\
        default: break;\
    }\
    /* */
}

tp.tv_sec =
systemtime.wSecond +
/* */
(systemtime.wMinute * 60) +
/* */
((systemtime.wHour * 3600) +
/* */
((systemtime.wDay - 1) * 3600 * 24);
tp.tv_sec += (yDay * 3600 *
24); /* */
yDiff = systemtime.wYear -
1970; /* 1970 ( ) */
work_day = (yDiff / 4);\
tp.tv_sec += ((yDiff * 365) +
work_day) * 24 * 3600;\
tp.tv_usec =
systemtime.wMilliseconds;\
tv_st_usec=tp.tv_sec;
tv_st_usec=tp.tv_usec;
#else
#define TIMES Gettimeofday(&tp); tv_st_usec=tp.tv_sec;
#define TIMES Gettimeofday(&tp); tv_st_usec=tp.tv_sec;
#endif
#ifdef NT
#define TIMEE(NUM) \
GetSystemTime(&systemtime);\
// tp.tv_sec = ((systemtime.wYear - 1970)
*365*24*3600) \
//
// + ((systemtime.wMonth - 1)
*30*24*3600 \
//
// + ((systemtime.wDay - 1)
*24*3600 \
//
// + (systemtime.wHour * 3600
\
//
// + (systemtime.wMinute * 60
\
//
// + (systemtime.wSecond );\
GetSystemTime(&systemtime);\
yDay = 0;\
switch(systemtime.wMonth - 1){\
    case 11: yDay += 30;\
    case 10: yDay += 31;\
    case 9: yDay += 30;\
    case 8: yDay += 31;\
    case 7: yDay += 31;\
    case 6: yDay += 30;\
    case 5: yDay += 31;\
    case 4: yDay += 30;\
    case 3: yDay += 31;\
    case 2: /* */
        (((systemtime.wYear % 4 == 0) &&
(systemtime.wYear % 100 != 0)) ||\
        ((systemtime.wYear % 4 == 0) &&
(systemtime.wYear % 400 == 0)))\
        ?(yDay += 29): (yDay +=
28);\
        case 1: yDay += 31;\
        default: break;\
    }\
    /* */
}
tp.tv_sec = systemtime.wSecond +
/* */

```

```

//      +
((systemtime.wMonth - 1) * 30 * 24 * 3600) \
//      +
((systemtime.wDay - 1) * 24 * 3600) \
//      +
(systemtime.wHour * 3600) \
//      +
(systemtime.wMinute * 60) \
//      +
(systemtime.wSecond); \
//      +
systemtime.wMilliseconds;
//      +
systemtime.wMilliseconds * 1000;
#define Gettimeofday(a)
GetSystemTime(&systemtime); \
        yDay = 0; \

switch(systemtime.wMonth - 1) \
case 11: yDay
+= 30; \
case 10: yDay
+= 31; \
        yDay += 30; \
        yDay += 31; \
        yDay += 31; \
        yDay += 30; \
        yDay += 31; \
        yDay += 30; \
        yDay += 31; \

        case 2: \
            /* * \
                long ol_total;

        long low_stock;
        long threshold;
        int tmp_o_id;
        char SQLSTATE[6];

        /* 98.06.08 */
        int
        t19,t18,t17,t16,t15,t14,t13,t12,t11,t10,t09,t08,t07,t06,t0
        5,t04,t03,t02;
        /* 98.06.08 */

        #ifdef USE_SQL_MODE /* 98.02.23
            suzuki */
            EXEC SQL END DECLARE SECTION;

        #else
            #define OLINSERT OLINSERT_nop
            #define JMPCINT2 JMPCINT2_nop
            #define JMPCINT3 JMPCINT3_nop
            OLINSERT_nop{}
            JMPCINT2_nop{}
            JMPCINT3_nop{}

        #endif NT
        #define SQLWAIT_O Sleep(1);
        #define SQLWAIT_N Sleep(1);
        #define SQLWAIT_N_C Sleep(1);
        #define SQLWAIT_N_R Sleep(2);

        yDiff =
        /* 1970 (
        ) * \
            work_day = (yDiff /
            4); \
            *a.tv_sec += (yDiff /
            * 365) + work_day) * 24 * 3600; \
            *a.tv_usec =

        #define SQLWAIT_P Sleep(1);
        #define SQLWAIT_D Sleep(5);
        #define SQLWAIT_S Sleep(2);
        #else
        #define SLEEP_MIN 10
        #define SQLWAIT_O usleep( 10 *
        SLEEP_MIN);
        #define SQLWAIT_N usleep( 100 *
        SLEEP_MIN);
        #define SQLWAIT_N_C usleep( 10 *
        SLEEP_MIN);
        #define SQLWAIT_N_R usleep( 200 *
        SLEEP_MIN);
        #define SQLWAIT_P usleep( 20 *
        SLEEP_MIN);
        #define SQLWAIT_D usleep( 500 *
        SLEEP_MIN);
        #define SQLWAIT_S usleep( 200 *
        SLEEP_MIN);
        #endif

        neworder_trans *bpn;
        payment_trans *bpp;
        orderstat_trans *bpo;
        delivery_trans *bpd;
        stocklvl_trans *bps;

        #ifdef USE_FML /* 98.05.21
            */
            neworder_trans nbuf;
            payment_trans pbuf;
            orderstat_trans obuf;
            delivery_trans dbuf;
            stocklvl_trans sbuf;
        #endif

        /* 98.03.02 */
        /* (gettimeofday) */
        #ifdef NT
            struct _SYSTEMTIME systemtime;
            struct tp_tag{
                long tv_sec ;
                long tv_usec ;
            };
            struct tp_tag tp,tp_e;
        #else
            struct timeval tp,tp_e;
        #endif
        /* 98.03.02 */
        long tv_st_sec,tv_st_usec;
        long time_sec,time_usec;
        /* long tv_en_sec,tv_en_usec; for delivery */
        long result_o_id[10]; /* for delivery */
        int number;
        int douitu;

        FILE *fd = 0;
        FILE *l_fd = 0;
        FILE *time_fd ;

        FILE *delivery_handle = NULL;
        FILE *fp;

        /* 98.07.01 */
        static FILE *tpsrvinit_fp = 0;

```

```

static ctr = 0;
/* 98.07.01 */

void s_ymdhms()
{
    struct tm    tim;

    time(&t_wk)    ;
    tim = *( localtime( &t_wk ) );
    sprintf( tc_s, "%04d%02d%02d%02d%02d%02d",
        tim.tm_year + 1900, tim.tm_mon+1,
tim.tm_mday,
        tim.tm_hour, tim.tm_min, tim.tm_sec );
/*    tc_s[14] = NULL ; */
    tc_s[14] = 0 ;
}

long  c_ymdhms( char *time )
{
    struct tm itm    ;
    long  otm    ;
    int   ymdhms    ;
    char  ctm[3]    ;

    ctm[2] = '\0'    ;

    strncpy( ctm , &time[2] , 2 ) ;
    ymdhms = atoi( ctm ) ;
    itm.tm_year = ymdhms    ;

    strncpy( ctm , &time[4] , 2 ) ;
    ymdhms = atoi( ctm ) ;
    itm.tm_mon = ymdhms - 1    ;

    strncpy( ctm , &time[6] , 2 ) ;
    ymdhms = atoi( ctm ) ;
    itm.tm_mday = ymdhms    ;

    strncpy( ctm , &time[8] , 2 ) ;
    ymdhms = atoi( ctm ) ;
    itm.tm_hour = ymdhms    ;

    strncpy( ctm , &time[10] , 2 ) ;
    ymdhms = atoi( ctm ) ;
    itm.tm_min = ymdhms    ;

    strncpy( ctm , &time[12] , 2 ) ;
    ymdhms = atoi( ctm ) ;
    itm.tm_sec = ymdhms    ;

    itm.tm_isdst = -1    ;

    otm = mktime( &itm )    ;
    return( otm )    ;
}

/*****
/* TPCC */
/*****
int TPCC(info,num)
TPSVCINFO *info;
int num;
{
    int mix;
    int k;
    char  logname[80]; /* for delivery 1997.02.27 */

    FILE *fp;

int rtnsize;
/* 98.07.07 */
    DWORD
    work,yDay,yDiff,work_day;
/* 98.07.07 */

    /* wait for message to come in */

#ifdef USE_FML /* 98.04.09
lch. */
    mix = Fvall( ( FBFR * )info->data, FML_TRAN, 0
);
#else
    mix = *((int *)info->data);
#endif
#ifdef TRACE
    DP("TPCC-call mix=%d\n",mix);
#endif

    if( mix == 1 )
    {
#ifdef USE_FML /* 98.04.07
lch. */
        nbuf = *(( neworder_trans * )Ffind( ( FBFR *
)info->data,
            FML_DATA, 0, NULL ));
        bpn = &nbuf;
#else
        bpn = (neworder_trans *)info->data;
#endif
        rtnsize = sizeof(neworder_trans);
        w_id = bpn->w_id ;
        d_id = bpn->d_id ;
        bpn->C_R = 0; /* Commit/Rollback flag */
        tmp_d_id = bpn->d_id;
        c_id = bpn->c_id;
        o_ol_cnt = bpn->o_ol_cnt;

        bpn->C_R = NewOrder();
#ifdef USE_FML /* 98.04.07
lch. */
        Fchg( ( FBFR * )info->data, FML_DATA, 0, (
char *)bpn,
            sizeof( neworder_trans ) );
#else
        }
        else if( mix == 2 )
        {
#ifdef USE_FML /* 98.04.07
lch. */
            pbuf = *(( payment_trans * )Ffind( ( FBFR *
)info->data,
                FML_DATA, 0, NULL ));
            bpp = &pbuf;
#else
            bpp = (payment_trans *)info->data;
#endif
            rtnsize = sizeof(payment_trans);
            w_id = bpp->w_id ;
            d_id = bpp->d_id ;

            c_d_id = bpp->c_d_id;
            c_w_id = bpp->c_w_id;

            strncpy(c_last, "", sizeof(c_last)); /*
960909 */
            strcpy(c_last,bpp->c_last);

for(k=0 ; k<16; k++)
        {
            if( c_last[k] == 0x00)
                {
                    c_last[k] = 0x20;
                }
        }

        if(OrderStatus())
        {
            bpo->C_R = 1; }
        else
        {
            bpo->C_R = 0; }
#ifdef USE_FML /* 98.04.07
lch. */
            Fchg( ( FBFR * )info->data, FML_DATA, 0, (
char *)bpo,
                sizeof( orderstat_trans ) );
#else
        }
        else if( mix == 4 )
        {
#ifdef USE_FML /* 98.04.07
lch. */
            dbuf = *(( delivery_trans * )Ffind( ( FBFR *
)info->data,
                FML_DATA, 0, NULL ));
            for(k=0 ; k<16; k++)
                {
                    if( c_last[k] == 0x00)
                        {
                            c_last[k] = 0x20;
                        }
                }

            if(OrderStatus())
            {
                bpo->C_R = 1; }
            else
            {
                bpo->C_R = 0; }
#ifdef USE_FML /* 98.04.07
lch. */
                Fchg( ( FBFR * )info->data, FML_DATA, 0, (
char *)bpo,
                    sizeof( orderstat_trans ) );
#else
            }
        }
        else if( mix == 3 )
        {
#ifdef USE_FML /* 98.04.07
lch. */
            obuf = *(( ( orderstat_trans * )Ffind( ( FBFR *
)info->data,
                FML_DATA, 0, NULL ));
            bpo = &obuf;
#else
            bpo = (orderstat_trans *)info->data;
#endif
            rtnsize = sizeof(orderstat_trans);
            w_id = bpo->w_id ;
            d_id = bpo->d_id ;
            c_id = bpo->c_id;
            bpo->C_R = 0; /* Clear the Commit/Rollback
flag */
            c_w_id = bpo->w_id; /* clients Warehouse ID
*/
            c_d_id =bpo->d_id;

            strncpy(c_last, "", sizeof(c_last)); /*
960909 */
            strcpy(c_last,bpo->c_last);
            for(k=0 ; k<16; k++)
                {
                    if( c_last[k] == 0x00)
                        {
                            c_last[k] = 0x20;
                        }
                }

            if(OrderStatus())
            {
                bpo->C_R = 1; }
            else
            {
                bpo->C_R = 0; }
#ifdef USE_FML /* 98.04.07
lch. */
                Fchg( ( FBFR * )info->data, FML_DATA, 0, (
char *)bpo,
                    sizeof( orderstat_trans ) );
#else
            }
        }
        else if( mix == 4 )
        {
#ifdef USE_FML /* 98.04.07
lch. */
            dbuf = *(( delivery_trans * )Ffind( ( FBFR *
)info->data,
                FML_DATA, 0, NULL ));
            strcpy(c_last,bpp->c_last);
        }
    }
}

```

```

        bpd = &dobuf;
#else
        bpd = (delivery_trans)info->data;
#endif

        w_id = bpd->w_id;
        d_id = bpd->d_id;
        bpd->C_R = 0; /* Clear the
Commit/Rollback flag */

        if ( delivery_handle == NULL )
        {
#ifdef USE_FML /* 98.04.07
lch. */
                num = getpid(); /* (^; */
#endif

                sprintf(logname,"tpcrt/tpcc/delivery_log%d",num);
                delivery_handle = fopen(logname,"w+");
                if ( delivery_handle == NULL )
                {
#ifdef TRACE
                        DP("delivery_log1 cannot write\n");
#endif
                        printf("delivery_log cannot write\n");
                        fflush(stdout);
                }
                o_carrier_id = bpd->o_carrier_id;

                for(d_id = 0; d_id < 10; d_id++)
                {
                        result_o_id[d_id] = 0;
                }

                /****** Transaction *****/
                bpd->C_R = Delivery();
                Gettimeofday(&tp_e);
#ifdef TRACE
                DP("A-deli_handle= %x C_R=%d
\n",delivery_handle,bpd->C_R);
#endif
                if(bpd->C_R)
                {

#ifdef NT
/* NT msec 1000 */
                        fprintf(delivery_handle,"%09d%03d
%09d%03d %d %d",
                                bpd->startsec,
                                bpd->startusec,
                                tp_e.tv_sec,
                                tp_e.tv_usec,
                                w_id,
                                o_carrier_id);
#else
                        fprintf(delivery_handle,"%09d%03d
%09d%03d %d %d",
                                bpd->startsec,
                                bpd->startusec/1000,
                                0,
                                0,
                                w_id,
                                o_carrier_id);
#endif

                        fprintf(delivery_handle," %d
%d",d_id+1,result_o_id[d_id]);

```

```

        }
        fprintf(delivery_handle, "\n");
    }
    else
    {
#ifdef NT
/* NT msec 1000 */
        fprintf(delivery_handle,"%09d%03d
%09d%03d %d %d",
                bpd->startsec,
                bpd->startusec,
                0,
                0,
                w_id,
                o_carrier_id);
#else
        fprintf(delivery_handle,"%09d%03d
%09d%03d %d %d",
                bpd->startsec,
                bpd->startusec/1000,
                0,
                0,
                w_id,
                o_carrier_id);
#endif

        fprintf(delivery_handle," errorpos:%04d
SQLSTATE:%05d\n",
                bpd->errorpos,bpd-
>sqlstate);
    }
}
#ifdef TRACE
    DP("Out-deli_handle= %x C_R=%d
\n",delivery_handle,bpd->C_R);
#endif
#ifdef TRACE
    DP("tpretum-called MIX =%d TPNOREPLY \n",mix);
#endif
/*tpretum(TPSUCCESS,0,(char
*)bpd,sizeof(delivery_trans),0|TPNOREPLY);*/
#ifdef USE_FML /* 98.04.07
lch. */
        tpretum( TPSUCCESS, 0, (char *)NU LL, 0, 0 );
#else
        tpretum(TPSUCCESS,0,(char
*)bpd,sizeof(delivery_trans),0 );
#endif
        else if (mix == 5)
        {
#ifdef USE_FML /* 98.04.07
lch. */
                sbuf = *(( stocklvl_trans *)Ffind( ( FBFR *
)info->data,
                                FML_DATA, 0, NULL ));
                bps = &sbuf;
#else
                bps = (stocklvl_trans *)info->data;
#endif
                rtnsize = sizeof(stocklvl_trans);
                w_id = bps->w_id;
                d_id = bps->d_id;
                threshold = bps->threshold;

                if(StockLevel())
                {
                        bps->C_R = 1;

```

```

        bps->low_stock = low_stock;
    }
    else
    {
        bps->C_R = 0;
    }
#ifdef USE_FML /* 98.04.07
lch. */
        Fchg( ( FBFR * )info->data, FML_DATA, 0, ( char
*)bps,
                sizeof( stocklvl_trans ));
#endif
}
        if( mix != 4 )
        {
#ifdef TRACE
                DP("tpretum-called mix=%d \n",mix);
#endif
#ifdef USE_FML /* 98.04.07
lch. */
                tpretum( TPSUCCESS, 0, info->data, 0L, 0 );
#else
                tpretum(TPSUCCESS,0,info->data,rtnsize, 0);
#endif
        }
}
/*****
/* tpsvrdone */
*****/
void tpsvrdone()
{
#ifdef TRACE
    DP("tpsvrdone called pid=%d\n",getpid());
#endif
    JMPCINT3();
    fflush(delivery_handle);
    fclose(delivery_handle);
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
    EXEC SQL COMMIT WORK ;
#endif
/*
/* EXEC SQL DISCONNECT CURRENT ;
*/
/*DP("DISCONNECT(SQLSTATE) = %s\n",
SQLSTATE); */
return;
}
/*****
/* Error */
*****/
int Error()
{
    char msg[1024];
    long errno;
    FILE *handle;
    SQLSTATE[5] = 0;
    if (0 != strcmp(SQLSTATE,"00000"))
    {
        if (0 == strcmp(SQLSTATE,"40001")) /*
*/
        {
            return(1);
        }
    }
/* 98.03.02 */

```

```

/*          "tpccerr"
*/
#ifdef NT
    system("date /T>>tpccerr");
#else
    system("date >>/tmp/tpccerr");
#endif

#ifdef NT
    handle = fopen("tpccerr","ab");
#else
    handle = fopen("/tmp/tpccerr","ab");
#endif
/* 98.03.02 */

    if ( handle == NULL )
    {
        handle = stderr;
    }
    fprintf(handle," SQL ERROR:SQLSTATE=
%s\n",SQLSTATE);
    fflush(handle);
}
return(0);
}

/*****
/* tpsvrinit */
/*****
tpsvrinit(argc,argv)
int argc;
char **argv;
{
    int i = 0;
    char *fname;

#ifdef suzuki
/* 98.07.01 */
    if(tpsvrinit_fp == 0){
        sprintf(fname,"tpsvrinit_test%d.txt",getpid());
        tpsvrinit_fp = fopen(fname,"w");
    }
    fprintf(tpsvrinit_fp,"tpsvrinit start\n");
    fflush(tpsvrinit_fp);
/* 98.07.01 */
#endif

    DP("tpsvrinit start called pid=%d\n",getpid());

#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
    EXEC SQL WHENEVER SQLERROR
CONTINUE;
#endif
/*          */
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
    EXEC SQL CONNECT TO 'SV1';
/*DEFAULT;*/
#endif
    DP("CONNECT(SQLSTATE) = %s\n",
SQLSTATE);

#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
    EXEC SQL COMMIT WORK ;
#endif
    JMPCINT2();

    if(! preNewOrder() ) ++i;
    if(! prePayment() ) ++i;
    if(! preOrderStatus() ) ++i;
    if(! preDelivery() ) ++i;
    if(! preStockLevel() ) ++i;

    if(i)
    {
        printf("%d errors in SQL
prepares.quitting.\n",i);
        fflush(stdout);
        exit(1);
    }

    DP("tpsvrinit end called pid=%d\n",getpid());

#ifdef suzuki
/* 98.07.01 */
    if(tpsvrinit_fp == 0){
        tpsvrinit_fp = fopen("tpsvrinit_test.txt","w");
    }
    fprintf(tpsvrinit_fp,"tpsvrinit end\n");
    fflush(tpsvrinit_fp);
/* 98.07.01 */
#endif
}

int scanstring(target,search,length)
char *target,*search;
int length;
{
    int search_length,iter;
    if((search_length = strlen(search)) > length)
    {
        return(-1);
    }
    for (iter= length -search_length;iter--;iter,++target)
    {
        if(strncmp(target,search,search_length) == 0)
        {
            return(1);
        }
    }
    return(0);
}

/*****
/* preNewOrder */
/*****
preNewOrder()
{
    return(1);
}

/*****
/* NewOrder */
/*****
NewOrder()
{
    long i_price[15];
    char i_name[15][25];
    char i_data[15][51];
    char s_datax[15][51];
    Ink_ol Ink_buf[15]; /* INSERT
*/
    int j ;
    int i ;
    long total_amount = 0;
    int pos = 0;
    int in_ol_i_id ;
    int in_ol_number ;
    s_join_str *sjp ;
    i_join_str *ijp ;
    ol_i_join_str *olijp ;
    ol_s_join_str *olsjp ;
    ol_q_join_str *olqjp ;
    int item_notfound_cnt ;
    FILE *fp;
    FILE *handle;

    short *ol_i_id_ind_str[] = { (short *)&ol_i_id1_ind ,
                                (short *)&ol_i_id2_ind ,
                                (short *)&ol_i_id3_ind ,
                                (short *)&ol_i_id4_ind ,
                                (short *)&ol_i_id5_ind ,
                                (short *)&ol_i_id6_ind ,
                                (short *)&ol_i_id7_ind ,
                                (short *)&ol_i_id8_ind ,
                                (short *)&ol_i_id9_ind ,
                                (short *)&ol_i_id10_ind ,
                                (short *)&ol_i_id11_ind ,
                                (short *)&ol_i_id12_ind ,
                                (short *)&ol_i_id13_ind ,
                                (short *)&ol_i_id14_ind ,
                                (short *)&ol_i_id15_ind ,
                                NULL};

    struct {
        int num ;
        long ol_i_id ;
    } sort_ol[15] ;
    struct {
        int num ;
        long ol_i_id ;
    } r_id[15] ;
    int sort_num ;
    long sort_ol_i_id ;
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
    EXEC SQL BEGIN DECLARE SECTION;
#endif
    short h_cnt ;
    short r_cnt ;
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
    EXEC SQL END DECLARE SECTION;
#endif
    begin_tran:
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
    EXEC SQL WHENEVER SQLERROR GOTO :sqlerr
;
    EXEC SQL WHENEVER NOT FOUND GOTO
:not_found ;
#endif
}

```

```

errorpos = 0 ;
item_notfound = -1 ;
s_join.sqllen = 0 ;
i_join.sqllen = 0 ;
sjp = (s_join_str *)&s_join ;
ijp = (i_join_str *)&i_join ;
olijp = (ol_i_join_str *)&ol_i_join ;
olsjp = (ol_s_join_str *)&ol_s_join ;
olqjp = (ol_q_join_str *)&ol_q_join ;

h_cnt = 0 ;
r_cnt = 0 ;
for (ol_number = 0; ol_number < o_ol_cnt
; ++ol_number)
{
    if (w_id == bpn->ol_supply_w_id[ol_number])
    {
        for (i=0; i < h_cnt; i++)
        {
            if (sort_id[i].ol_i_id == bpn-
>ol_i_id[ol_number])
            {
                break ;
            }
        }
        if (i == h_cnt)
        {
            sort_id[h_cnt].num = ol_number
;
            sort_id[h_cnt].ol_i_id = bpn-
>ol_i_id[ol_number] ;
            h_cnt = h_cnt + 1 ;
        }
        else
        {
            r_id[r_cnt].num = ol_number
;
            r_id[r_cnt].ol_i_id = bpn-
>ol_i_id[ol_number] ;
            r_cnt = r_cnt + 1 ;
        }
        else
        {
            r_id[r_cnt].num = ol_number
;
            r_id[r_cnt].ol_i_id = bpn-
>ol_i_id[ol_number] ;
            r_cnt = r_cnt + 1 ;
        }
    }
    for (i=0; i < r_cnt; i++)
    {
        sort_id[h_cnt+i].num = r_id[i].num
;
        sort_id[h_cnt+i].ol_i_id = r_id[i].ol_i_id
;
    }

    for (ol_number = 0; ol_number < h_cnt
; ++ol_number)
    {
        for (in_ol_number = ol_number + 1 ;
            in_ol_number < h_cnt
; ++in_ol_number)
        {
            if (sort_id[in_ol_number].ol_i_id <
                sort_id[ol_number].ol_i_id

```

```

{
    sort_num =
    sort_id[ol_number].num ;
    sort_ol_i_id =
    sort_id[ol_number].ol_i_id ;
    sort_id[ol_number].num =
    sort_id[in_ol_number].num ;
    sort_id[ol_number].ol_i_id =
    sort_id[in_ol_number].ol_i_id ;
    sort_id[in_ol_number].num = sort_num
;
    sort_id[in_ol_number].ol_i_id = sort_ol_i_id
;
}
}
for (i=0, ol_number = 0; ol_number < 15
; ++ol_number)
{
    if (ol_number < h_cnt)
    {
        *((short *) (ol_i_id_ind_str[ol_number])) = 0
;
        *((long *) (ol_i_id_str[ol_number]))
            = bpn->ol_i_id[sort_id[ol_number].num]
;
        sprintf(olqjp-
>sqlvar[ol_number].ol_quantity, "%-4d",
            bpn-
>ol_quantity[sort_id[ol_number].num] ) ;
    }
    else
    {
        *((short *) (ol_i_id_ind_str[ol_number])) = -1
;
        *((long *) (ol_i_id_str[ol_number])) = 0
;
        if (ol_number < o_ol_cnt)
        {
            sprintf(olqjp-
>sqlvar[ol_number].ol_quantity, "%-4d",
                bpn-
>ol_quantity[sort_id[ol_number].num] ) ;
            sprintf(olijp->sqlvar[i].ol_i_id, "%-7d",
                bpn->ol_i_id[sort_id[ol_number].num] )
;
            sprintf(olsjp->sqlvar[i].ol_supply_w_id, "%-
4d",
                bpn-
>ol_supply_w_id[sort_id[ol_number].num] ) ;
            i++;
        }
    }
    ol_q_join.sqllen = o_ol_cnt * 4 ;
    ol_i_join.sqllen = r_cnt * 7 ;
    ol_s_join.sqllen = r_cnt * 4 ;

    s_ymdhms() ;
    strcpy(o_entry_d, tc_s, 14) ;
    bpn->o_entry_d = l_wk ;
}
neworder_proc:

```

```

#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
EXEC SQL
CALL TPCC_SCHEMA.Y_NORDER(:state
,
:errorpos INDICATOR
:errorpos_ind
:w_id
:tmp_d_id
:c_id
:o_all_local INDICATOR
:o_all_local_ind
:w_tax INDICATOR :w_tax_ind
,
:d_tax INDICATOR :d_tax_ind
,
:o_id INDICATOR :o_id_ind
,
:o_entry_d
:c_discount INDICATOR
:c_discount_ind
:c_last INDICATOR :c_last_ind
,
:c_credit INDICATOR
:c_credit_ind
:item_notfound INDICATOR
:item_notfound_ind
:h_cnt
:r_cnt
:ol_i_id1
:ol_i_id2
:ol_i_id3
:ol_i_id4
:ol_i_id5
:ol_i_id6 INDICATOR :ol_i_id6_ind
,
:ol_i_id7 INDICATOR :ol_i_id7_ind
,
:ol_i_id8 INDICATOR :ol_i_id8_ind
,
:ol_i_id9 INDICATOR :ol_i_id9_ind
,
:ol_i_id10 INDICATOR
:ol_i_id10_ind
:ol_i_id11 INDICATOR
:ol_i_id11_ind
:ol_i_id12 INDICATOR
:ol_i_id12_ind
:ol_i_id13 INDICATOR
:ol_i_id13_ind
:ol_i_id14 INDICATOR
:ol_i_id14_ind
:ol_i_id15 INDICATOR
:ol_i_id15_ind
:ol_i_join
:ol_q_join
:s_join
:i_join
:ol_s_join
);
#else
SQLWAIT_N;
strcpy(state, "00000");

o_id = rand()%99999999+1; /* 98.03.24
lch. */
bpn->w_tax = rand()%2001;
bpn->d_tax = rand()%2001;

```

```

strcpy( bpn->c_last, "BAROUGHTABLE" );
strcpy( bpn->c_credit, "GC" );
bpn->c_discount = rand()%101;
#endif

if ( memcmp(state,"00000",5) != 0 )
{
    strcpy(SQLSTATE,state,5) ;
    SQLSTATE[5] = 0 ;
    if ( memcmp(state,"02000",5) == 0 )
    {
        goto not_found;
    }
    else
    {
        goto sqlerr;
    }
}

bpn->o_id = o_id ;

for ( ol_number = 0; ol_number <
o_ol_cnt; ++ol_number )
{
    ol_i_id = bpn->ol_i_id[ol_number] ;
    if ( item_notfound == -1
|| item_notfound > ol_number )
    {
        for ( in_ol_number = 0; in_ol_number <
o_ol_cnt; ++in_ol_number )
        {
            if ( ol_number == sort_id[in_ol_number].num
)
            {
                i_price[ol_number]
= atoi(ijp-
>sqlvar[in_ol_number].i_price) ;
                bpn->i_price[ol_number] =
i_price[ol_number] ;

                strcpy(bpn->i_name[ol_number],
ijp-
>sqlvar[in_ol_number].i_name,24) ;
                bpn->i_name[ol_number][24] = '\0'
;

                strcpy(i_data[ol_number],
ijp-
>sqlvar[in_ol_number].i_data,50) ;
                i_data[ol_number][50] = '\0'
;

                bpn->s_quantity[ol_number]
= atoi(sjp-
>sqlvar[in_ol_number].s_quantity) ;
                strcpy(ol_dist_info,
sjp-
>sqlvar[in_ol_number].s_dist,24) ;
                ol_dist_info[24] = '\0'
;

                strcpy(s_datax[ol_number],
sjp-
>sqlvar[in_ol_number].s_data,50) ;
                s_datax[ol_number][50] = '\0'
;

                /*sort_id[in_ol_number].ol_i_id = 0;
1997.02.24 */
                break ;
            }
        }
    }
}

}
else
{
    i_price[ol_number] = 0 ;
    bpn->i_price[ol_number] = 0 ;
    bpn->s_quantity[ol_number] = 0 ;

    ol_dist_info[0] = '\0' ;
}

ol_amount = bpn-
>ol_quantity[ol_number]
* i_price[ol_number] ;
bpn->ol_amount[ol_number] = ol_amount ;

total_amount += ol_amount ;
if ( scanstring(i_data[ol_number],"ORIGINAL",50)
&&
scanstring(s_datax[ol_number],"ORIGINAL",50) )
{
    bpn->brand_generic[ol_number] = 'B';
}
else
{
    bpn->brand_generic[ol_number] = 'G';
}

/*** INSERT ***/
lnk_buf[ol_number].ol_o_id = o_id ;
lnk_buf[ol_number].ol_d_id = tmp_d_id ;
lnk_buf[ol_number].ol_w_id = w_id ;
lnk_buf[ol_number].ol_number = ol_number +
1 ;
lnk_buf[ol_number].ol_i_id = ol_i_id ;
lnk_buf[ol_number].ol_supply_w_id
= bpn-
>ol_supply_w_id[ol_number] ;
lnk_buf[ol_number].ol_quantity
= bpn->ol_quantity[ol_number] ;
lnk_buf[ol_number].ol_amount = ol_amount ;

strcpy(lnk_buf[ol_number].ol_dist_info,ol_dist_info,25)
;
}

#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
/*---- ORDERLINE INSERT ----*/
errorpos = 108 ;
j =
OLINSERT(&lnk_buf[0],&o_ol_cnt,&SQLSTATE);
if ( j != 0 )
{
    DP(" NewOrder ERRPOS=%d
SQLSTATE=%s\n",errorpos, SQLSTATE );
    goto sqlerr;
}

if ( item_notfound == -1)
{
    EXEC SQL COMMIT WORK ;
}

}

strcpy(bpn->c_last,c_last,17) ;
strcpy(bpn->c_credit,c_credit,3) ;
bpn->d_tax = d_tax ;
bpn->w_tax = w_tax ;
bpn->c_discount = c_discount ;
total_amount *= (1 + (w_tax + d_tax)/10000.0)
* (1 - (c_discount /10000.0)) ;
bpn->total_amount = total_amount ;
bpn->errorpos = 0 ;
bpn->sqlstate = 0 ;
return(1) ;
}
else
{
    bpn->errorpos = 201 ;
    bpn->sqlstate = 02000 ;

    EXEC SQL ROLLBACK WORK ;

    return(2) ;
}
#else
SQLWAIT_N_C;
SQLWAIT_N_R;

bpn->total_amount = 0; /* 98.03.24
lch. */
for ( i = 0; i < 15; ++i )
{
    if ( bpn->ol_supply_w_id[i] == 0 ) {
        break;
    }
    strcpy( bpn->i_name[i],
"NESNESNESNESNAME" );
    bpn->s_quantity[i] = ( rand()%10 ) + 1;
    bpn->brand_generic[i] = 'G';
    bpn->i_price[i] = ( rand()%9901 ) + 100;
    bpn->ol_amount[i] = bpn->i_price[i]*bpn-
>ol_quantity[i];
    bpn->total_amount += bpn->ol_amount[i];
}
bpn->o_ol_cnt = i;
/* bpn->total_amount *= ( 1.0 + ( bpn->w_tax +
bpn->d_tax )/10000.0 )
* ( 1.0 - ( bpn->c_discount/10000.0 )
); */
return(1) ;
}
#endif

not_found:
DP("NOT FOUND IN NewOrder AT %d\n",errorpos);
fflush(stdout);
bpn->errorpos = errorpos ;
bpn->sqlstate = atoi(SQLSTATE) ;
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
EXEC SQL ROLLBACK WORK;
#else
SQLWAIT_N_R;
#endif
return(0);

sqlerr:
#ifdef DP_SQLERR
DP("Neworder ERRPOS=%d
SQLSTATE=%s\n",errorpos,SQLSTATE);
#endif
}

```



```

#ifdef USE_SQL_MODE          /* 98.02.23
suzuki */
EXEC SQL WHENEVER SQLERROR CONTINUE ;
#endif
if(Error())
{
#ifdef USE_SQL_MODE          /* 98.02.23
suzuki */
EXEC SQL ROLLBACK WORK;
#else
SQLWAIT_N_R;
#endif
goto begin_tran;
}
bpn->errorpos = errorpos ;
bpn->sqlstate = atoi(SQLSTATE) ;
#ifdef USE_SQL_MODE          /* 98.02.23
suzuki */
EXEC SQL ROLLBACK WORK;
#else
SQLWAIT_N_R;
#endif
return(0);
}

/*****
/* prePayment */
/*****
prePayment()
{
return(1);
}

/*****
/* Payment */
/*****
Payment()
{

begin_tran:
#ifdef USE_SQL_MODE          /* 98.02.23
suzuki */
EXEC SQL WHENEVER SQLERROR GOTO :sqlerr
;
EXEC SQL WHENEVER NOT FOUND GOTO
:not_found ;
#endif

s_ymdhms() ;
strncpy(h_date,tc_s,14) ;
errorpos = 0 ;
#ifdef USE_SQL_MODE          /* 98.02.23
suzuki */
EXEC SQL
CALL TPCC_SCHEMA.Y_PAYMENT(:state
,
:errorpos INDICATOR
:errorpos_ind ,
:w_id ,
:d_id ,
:c_id ,
:c_d_id ,
:c_w_id ,
:h_amount ,
:h_date ,
:w_name ,
:w_street_1 INDICATOR
:w_street_1_ind ,

```

```

:w_street_2 INDICATOR
:w_street_2_ind ,
:w_city INDICATOR :w_city_ind
,
:w_state INDICATOR
:w_state_ind ,
:w_zip INDICATOR :w_zip_ind
,
:d_name ,
:d_street_1 INDICATOR
:d_street_1_ind ,
:d_street_2 INDICATOR
:d_street_2_ind ,
:d_city INDICATOR :d_city_ind
,
:d_state INDICATOR :d_state_ind
,
:d_zip INDICATOR :d_zip_ind
,
:c_first INDICATOR :c_first_ind
,
:c_middle INDICATOR
:c_middle_ind ,
:c_last ,
:c_street_1 INDICATOR
:c_street_1_ind ,
:c_street_2 INDICATOR
:c_street_2_ind ,
:c_city INDICATOR :c_city_ind
,
:c_state INDICATOR :c_state_ind
,
:c_zip INDICATOR :c_zip_ind
,
:c_phone INDICATOR
:c_phone_ind ,
:c_credit ,
:c_credit_lim INDICATOR
:c_credit_lim_ind ,
:c_discount INDICATOR
:c_discount_ind ,
:c_balance INDICATOR
:c_balance_ind ,
:c_ytd_payment INDICATOR
:c_ytd_payment_ind ,
:c_payment_cnt INDICATOR
:c_payment_cnt_ind ,
:c_since INDICATOR
:c_since_ind ,
:c_datax INDICATOR :c_data_ind
);
#else
SQLWAIT_P;
strcpy(state,"00000");

c_discount = rand()%5001; /* 98.03.24
lch. */
strcpy(c_first,"ABCDEFGHJKLM");
strcpy(c_middle,"OE");
strcpy(c_last,"BAROUGHTABLE");
strcpy(c_phone,"0123456789012345");
c_id = rand()%3000 + 1;

strcpy(c_street_1,"PQRSTUWXYZABCD");
strcpy(c_street_2,"EFGHIJKLmnopqr");
strcpy(c_city,"STUVWXYZABCDEFG");
strcpy(c_state,"RE");
sprintf(c_zip,"%04d11111",rand()%10000);

```

```

strcpy(d_street_1,"PQRSTUWXYZABCD");
strcpy(d_street_2,"EFGHIJKLmnopqr");
strcpy(d_city,"STUVWXYZABCDEFG");
strcpy(d_state,"RE");
sprintf(d_zip,"%04d11111",rand()%10000);

strcpy(w_street_1,"PQRSTUWXYZABCD");
strcpy(w_street_2,"EFGHIJKLmnopqr");
strcpy(w_city,"STUVWXYZABCDEFG");
strcpy(w_state,"RE");
sprintf(w_zip,"%04d11111",rand()%10000);

c_balance = ((rand()*rand()%19999999)-
9999999) / 100.0;
c_credit_lim = 5000000;

strcpy(c_since,"199802121212");
strcpy(c_credit,"GC");
#endif

if ( memcmp(state,"00000",5) != 0 )
{
strncpy(SQLSTATE,state,5) ;
SQLSTATE[5] = 0 ;
if ( memcmp(state,"02000",5) == 0 )
{
goto not_found;
}
else
{
goto sqlerr;
}
}

bpp->c_discount = c_discount ;
bpp->h_date = t_wk ;
strcpy(bpp->c_first,c_first) ;
strcpy(bpp->c_middle,c_middle) ;
strcpy(bpp->c_last,c_last) ;
strcpy(bpp->c_phone,c_phone) ;
bpp->c_id = c_id ;
strcpy(bpp->c_street_1,c_street_1);
strcpy(bpp->c_street_2,c_street_2);
strcpy(bpp->c_city,c_city) ;
strcpy(bpp->c_state,c_state) ;
strcpy(bpp->c_zip,c_zip) ;

strcpy(bpp->d_street_1,d_street_1);
strcpy(bpp->d_street_2,d_street_2);
strcpy(bpp->d_city,d_city) ;
strcpy(bpp->d_state,d_state) ;
strcpy(bpp->d_zip,d_zip) ;

strcpy(bpp->w_street_1,w_street_1);
strcpy(bpp->w_street_2,w_street_2);
strcpy(bpp->w_city,w_city) ;
strcpy(bpp->w_state,w_state) ;
strcpy(bpp->w_zip,w_zip) ;

bpp->c_balance = c_balance ;
bpp->c_credit_lim = c_credit_lim ;

bpp->c_since = c_ymdhms(c_since) ;
strcpy(bpp->c_credit,c_credit) ;

#ifdef USE_SQL_MODE          /*
98.03.24 lch. */

```

```

if ( strcmp(c_credit,"BC") == 0 )
{
    strcpy(bpp-
>c_data,c_datax.sqlvar,c_datax.sqllen);
}
else
{
    bpp->c_data[0] = 0;
}
#else /* 98.03.24 lch. */
if ( rand()%10 == 1 ) {
#define _STR50
"0123456789abcdefghijklmnopqrstuvwxyz!#$%&()*=
-[]:;,"
    strcpy( bpp->c_credit, "BC" );
    strcpy( bpp->c_data,
        _STR50_STR50_STR50_STR50_STR50_STR50
        _STR50_STR50_STR50 );
} else {
    bpp->c_data[0] = '0';
}
#endif

bpp->errorpos = 0;
bpp->sqlstate = 0;
/*EXEC SQL COMMIT WORK;*/
return(1);

not_found:
    DP("NOT FOUND IN Payment AT
%d\n",errorpos);
    fflush(stdout);
    bpp->errorpos = errorpos ;
    bpp->sqlstate = atoi(SQLSTATE) ;
    /*EXEC SQL ROLLBACK WORK;*/
    return(0);

sqlerr:
#ifdef DP_SQLERR
    DP("Payment ERRPOS=%d
SQLSTATE=%s\n",errorpos,SQLSTATE);
#endif
if(Error())
{
    /*EXEC SQL ROLLBACK WORK;*/
    goto begin_tran;
}
bpp->errorpos = errorpos ;
bpp->sqlstate = atoi(SQLSTATE) ;
/*EXEC SQL ROLLBACK WORK;*/
return(0);
}

/*****
/* preOrderStatus */
/*****
preOrderStatus()
{
    return(1);
}

/*****
/* OrderStatus */
/*****
OrderStatus()
{
    ol_join_str *oljp ;

```

```

/* 980821 add suzuki */
int i;
char ol_supply_w_id_5[5] = {0,0,0,0,0};
/* 980821 suzuki */

begin_tran:
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
EXEC SQL WHENEVER SQLERROR GOTO :sqlerr
;
EXEC SQL WHENEVER NOT FOUND GOTO
:not_found ;
#endif

    ol_join.sqllen = 0 ;
    oljp = (ol_join_str *)&ol_join ;
    errorpos = 0 ;
    /*printf( "Order-status\n" );*/
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
EXEC SQL
CALL TPCC_SCHEMA.Y_ORDERSTAT(:state
,
:errorpos INDICATOR
:errorpos_ind
:w_id
:d_id
:c_id
:c_first INDICATOR :c_first_ind
,
:c_middle INDICATOR
:c_middle_ind
:c_last INDICATOR :c_last_ind
,
:c_balance INDICATOR
:c_balance_ind
:o_id INDICATOR :o_id_ind
,
:o_entry_d INDICATOR
:o_entry_d_ind
:o_carrier_id INDICATOR
:o_carrier_id_ind
:o_ol_cnt
:o_join INDICATOR :ol_join_ind
);
#else
SQLWAIT_O;
strcpy(state,"00000");

    c_id = rand()%3000 + 1; /* 98.03.24
lch. */
    strcpy( c_first, "ABCDEFGHJKLM" );
    strcpy( c_middle, "OE" );
    strcpy( c_last, "BAROUGHTABLE" );
    c_balance = ( ( rand()*rand()%19999999 ) -
9999999 ) / 100.0;
    o_id = rand()%99999999+1;
    strcpy( o_entry_d, "19980123123456" );
    o_ol_cnt = rand()%11 + 5;
#endif

if ( memcmp(state,"00000",5) != 0 )
{
    strncpy(SQLSTATE,state,5) ;
    SQLSTATE[5] = 0 ;
    if ( memcmp(state,"02000",5) == 0 )
    {

```

```

        goto not_found;
    }
else
{
    goto sqlerr;
}
}

#ifdef USE_SQL_MODE /*
98.03.24 lch. */
for ( ol_number = 0;ol_number <
o_ol_cnt;++ol_number )
{
    bpo->ol_i_id[ol_number] = atoi(oljp-
>sqlvar[ol_number].ol_i_id) ;
    bpo->ol_amount[ol_number] = atoi(oljp-
>sqlvar[ol_number].ol_amount);

    /* 980821 adjust for over 1000WH suzuki */
    for(l = 0;l < 4;l++){
        ol_supply_w_id_5[l] = oljp-
>sqlvar[ol_number].ol_supply_w_id[l];
    }
    bpo->ol_supply_w_id[ol_number]
        = atoi(ol_supply_w_id_5) ;
    /*
    = atoi(oljp-
>sqlvar[ol_number].ol_supply_w_id) ;*/
    /* 980821 suzuki */

    bpo->ol_quantity[ol_number]
        = atoi(oljp-
>sqlvar[ol_number].ol_quantity) ;
    if(memcmp(oljp-
>sqlvar[ol_number].ol_delivery_d,"77777777",9) != 0)
    {
        bpo->ol_delivery_d[ol_number]
            = c_ymdhms(oljp-
>sqlvar[ol_number].ol_delivery_d);
    }
else
{
    bpo->ol_delivery_d[ol_number] = 77777777
;
}
}
#else /* 98.03.24 lch. */
for ( ol_number = 0; ol_number < o_ol_cnt;
++ol_number )
{
    bpo->ol_i_id[ol_number] = ( rand()%100000 )+1;
    bpo->ol_amount[ol_number] = rand()%1000000;
    bpo->ol_supply_w_id[ol_number] = ( rand()%10
)+1;
    bpo->ol_quantity[ol_number] = ( rand()%99 )+1;
    bpo->ol_delivery_d[ol_number] = c_ymdhms(
"19980321054321" );
}
}
#endif

if ( o_carrier_id_ind == -1 )
{
    bpo->o_carrier_id = INTNULL ;
}
else
{
    bpo->o_carrier_id = o_carrier_id ;
}
bpo->c_id = c_id ;

```

```

bpo->o_ol_cnt = o_ol_cnt ;
strcpy(bpo->c_first,c_first) ;
strcpy(bpo->c_middle,c_middle) ;
strcpy(bpo->c_last,c_last) ;
bpo->c_balance = c_balance ;
bpo->o_id = o_id ;
bpo->o_entry_d = c_ymdhms(o_entry_d) ;

bpo->errorpos = 0 ;
bpo->sqlstate = 0 ;
/*EXEC SQL COMMIT WORK;*/

return (1);

not_found:
DP("NOT FOUND IN OrderStatus AT
%d\n",errorpos);
fflush(stdout);
bpo->errorpos = errorpos ;
bpo->sqlstate = atoi(SQLSTATE) ;
/*EXEC SQL ROLLBACK WORK;*/
return(0);

sqlerr:
#ifdef DP_SQLERR
DP("OrderStatus ERRPOS=%d
SQLSTATE=%s\n",errorpos,SQLSTATE);
#endif
if(Error())
{
/*EXEC SQL ROLLBACK WORK;*/
goto begin_tran;
}

bpo->errorpos = errorpos ;
bpo->sqlstate = atoi(SQLSTATE) ;
/*EXEC SQL ROLLBACK WORK;*/

return(0);
}

/******
/* preDelivery */
/******
preDelivery()
{
return(1);
}

/******
/* Delivery */
/******
Delivery()
{
int temp_d_id ;
result_join_str *rjp ;

begin_tran:
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
EXEC SQL WHENEVER SQLERROR GOTO
:sqlerr ;
EXEC SQL WHENEVER NOT FOUND GOTO
:not_found ;
#endif

result_join.sqlen = 0 ;
rjp = (result_join_str *)&result_join ;

```

```

s_ymdhms() ;
strcpy(ol_delivery_d,tc_s,14) ;
o_carrier_id = bpd->o_carrier_id ;
errorpos = 0 ;
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
EXEC SQL
CALL TPCC_SCHEMA.Y_DELIVERY(:state
,
:errorpos INDICATOR
:errorpos_ind
:w_id
:c_id
:o_carrier_id
:ol_delivery_d
:result_join INDICATOR
:result_join_ind
);
#else
SQLWAIT_D;
strcpy(state,"00000");
#endif

if ( memcmp(state,"00000",5) != 0 )
{
strcpy(SQLSTATE,state,5) ;
SQLSTATE[5] = 0 ;
if ( memcmp(state,"02000",5) == 0 )
{
goto not_found;
}
else
{
goto sqlerr;
}
}

for ( temp_d_id = 0 ; temp_d_id < 10 ;
temp_d_id++ )
{
result_o_id[temp_d_id] = atoi(rjp-
>sqlvar[temp_d_id],result_o_id);
}

bpd->errorpos = 0 ;
bpd->sqlstate = 0 ;
/*EXEC SQL COMMIT WORK;*/

return(1);

not_found:
DP("NOT FOUND IN DELIVERY AT
%d\n",errorpos);
fflush(stdout);
bpd->errorpos = errorpos ;
bpd->sqlstate = atoi(SQLSTATE) ;
/*EXEC SQL ROLLBACK WORK;*/
return(0);

sqlerr:
#ifdef DP_SQLERR
DP("Delivery ERRPOS=%d
SQLSTATE=%s\n",errorpos,SQLSTATE);
#endif
if(Error())
{
/*EXEC SQL ROLLBACK WORK;*/
goto begin_tran;
}

```

```

}
bpd->errorpos = errorpos ;
bpd->sqlstate = atoi(SQLSTATE) ;
/*EXEC SQL ROLLBACK WORK;*/
return(0);
}

/******
/* preStockLevel */
/******
preStockLevel()
{
return(1);
}

/******
/* StockLevel */
/******
StockLevel()
{
begin_tran:
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
EXEC SQL WHENEVER SQLERROR GOTO
:sqlerr ;
EXEC SQL WHENEVER NOT FOUND GOTO
:not_found ;
#endif
errorpos = 0 ;

/* 98.06.12 */
#ifdef STOCK_STORED
#ifdef USE_SQL_MODE /* 98.02.23
suzuki */
EXEC SQL
CALL TPCC_SCHEMA.Y_STOCKLV(:state
,
:errorpos INDICATOR
:errorpos_ind
:w_id
:d_id
:threshold
:low_stock INDICATOR
:low_stock_ind
);
#else
SQLWAIT_S;
strcpy(state,"00000");

low_stock = rand()%201; /*
98.03.24 lch. */
#endif

if ( memcmp(state,"00000",5) != 0 )
{
strcpy(SQLSTATE,state,5) ;
SQLSTATE[5] = 0 ;
if ( memcmp(state,"02000",5) == 0 )
{
goto not_found;
}
else
{
goto sqlerr;
}
}
}
#else

```

```

/* (1) DISTRICT table select */
EXEC SQL WHENEVER
SQLERROR GOTO :ERR_S_DI;
EXEC SQL WHENEVER NOT
FOUND GOTO :ERR_S_DI;
EXEC SQL SELECT D_NEXT_O_ID
INTO :o_id
FROM TPCC_SCHEMA.DISTRICT
WHERE D_W_ID = :w_id
AND D_ID = :d_id;
EXEC SQL WHENEVER
SQLERROR CONTINUE;
EXEC SQL WHENEVER NOT
FOUND CONTINUE;

/* (2) ORDERLINE table select */
/* (3) STOCK table select and count ITEM */

tmp_o_id = o_id - 20;
o_id = o_id - 1;
t19 = o_id - 1;
t18 = o_id - 2;
t17 = o_id - 3;
t16 = o_id - 4;
t15 = o_id - 5;
t14 = o_id - 6;
t13 = o_id - 7;
t12 = o_id - 8;
t11 = o_id - 9;
t10 = o_id - 10;
t09 = o_id - 11;
t08 = o_id - 12;
t07 = o_id - 13;
t06 = o_id - 14;
t05 = o_id - 15;
t04 = o_id - 16;
t03 = o_id - 17;
t02 = o_id - 18;

EXEC SQL WHENEVER
SQLERROR GOTO :ERR_S_STOL;
EXEC SQL WHENEVER NOT
FOUND GOTO :ERR_S_STOL;

EXEC SQL SELECT COUNT(DISTINCT S_I_ID)
INTO :low_stock
FROM TPCC_SCHEMA.ORDERLINE,
TPCC_SCHEMA.STOCK
WHERE OL_W_ID = :w_id
AND OL_D_ID = :d_id
AND OL_O_ID
IN(:tmp_o_id,
:t02,:t03,:t04,:t05,:t06,:t07,:t08,:t09,:t10,
:t11,:t12,:t13,:t14,:t15,:t16,:t17,:t18,:t19,
:o_id)
AND OL_NUMBER
IN(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15)
--$
--$ AND OL_O_ID
--$ BETWEEN @TMP_O_ID
--$ AND @O_ID
AND S_I_ID = OL_I_ID
AND S_W_ID = OL_W_ID
AND S_W_ID = :w_id
AND S_QUANTITY < :threshold;

```

```

EXEC SQL WHENEVER
SQLERROR CONTINUE;
EXEC SQL WHENEVER NOT
FOUND CONTINUE;

/* 98.08.27 stocklevel commit */
EXEC SQL COMMIT WORK;
/* 98.08.27 */

#endif
/* 98.06.12 */

bps->errorpos = 0;
bps->sqlstate = 0;
/*EXEC SQL COMMIT WORK;*/
return(1);

/* 98.06.12 */
/* --SQLERR:NOT_FOUND */
ERR_S_DI:
bps->errorpos = 203;
goto sqlerr;

ERR_S_STOL:
bps->errorpos = 248;
goto sqlerr;
/* 98.06.12 */

not_found:
DP("NOT FOUND IN STOCKLEVEL AT
%d\n",errorpos);
fflush(stdout);
bps->errorpos = errorpos;
bps->sqlstate = atoi(SQLSTATE);
/* 98.08.27 stocklevel rollback ( ) */
EXEC SQL ROLLBACK WORK;
/* 98.08.27 */
return(0);

sqlerr:
#ifdef DP_SQLERR
DP("Stocklevel ERRPOS=%d
SQLSTATE=%s\n",errorpos,SQLSTATE);
#endif
if(Error())
{
/* 98.08.27 stocklevel rollback ( ) */
EXEC SQL ROLLBACK WORK;
/* 98.08.27 */
goto begin_tran;
}
bps->errorpos = errorpos;
bps->sqlstate = atoi(SQLSTATE);
/* 98.08.27 stocklevel rollback ( ) */
EXEC SQL ROLLBACK WORK;
/* 98.08.27 */
return(0);
}

#ifdef USE_FML
98.04.07 */
/******
/* TPCC1->TPCC10 TPCCs1->3 TPCCd1->3 */
/******
TPCC1(info)
TPSVCINFO *info;
{

```

```

#ifdef TRACE
DP("TPCC-1 called\n");
#endif
number = 1;
return(TPCC(info,number));
}
TPCC2(info)
TPSVCINFO *info;
{
number = 2;
return(TPCC(info,number));
}
TPCC3(info)
TPSVCINFO *info;
{
number = 3;
return(TPCC(info,number));
}
TPCC4(info)
TPSVCINFO *info;
{
number = 4;
return(TPCC(info,number));
}
TPCC5(info)
TPSVCINFO *info;
{
number = 5;
return(TPCC(info,number));
}
TPCC6(info)
TPSVCINFO *info;
{
number = 6;
return(TPCC(info,number));
}
TPCC7(info)
TPSVCINFO *info;
{
number = 7;
return(TPCC(info,number));
}
TPCC8(info)
TPSVCINFO *info;
{
number = 8;
return(TPCC(info,number));
}
TPCC9(info)
TPSVCINFO *info;
{
number = 9;
return(TPCC(info,number));
}
TPCC10(info)
TPSVCINFO *info;
{
number = 10;
return(TPCC(info,number));
}
TPCCd1(info)
TPSVCINFO *info;
{
number = 11;
return(TPCC(info,number));
}
TPCCd2(info)
TPSVCINFO *info;

```

```
{
  number = 12;
  return(TPCC(info,number));
}
TPCCd3(info)
TPSVCINFO *info;
{
  number = 13;
  return(TPCC(info,number));
}
TPCCs1(info)
TPSVCINFO *info;
{
  number = 14;
  return(TPCC(info,number));
}
TPCCs2(info)
TPSVCINFO *info;
{
  number = 15;
  return(TPCC(info,number));
}
TPCCs3(info)
TPSVCINFO *info;
{
  number = 16;
  return(TPCC(info,number));
}
#endif
```



# Appendix C: RTE Scripts

## File: tpcc

```
#!/usr/bin/sh

./rmlog

date
date > connect_time

nawk -f val.awk ../data/t > ../data/tpcC.t.edt
echo "exec psinit"

./psinit -f ../data/t -t 1 -X # up-date point

echo "psinit end"
date >> connect_time
date
```

## File: tpcc.conf

```
#
# tpcC.conf : configuration file for TPC-C
#
#

STARTGROUP = sync , 1
  STARTRTE
    RTEHOST = rte15
  STARTSUT
    SUTHOST = cl15a,200
    SUTLOGIN = oracle
    SUTPASSWD = oracle
    SUTCMD = Tc
  ENDSUT
  ENDRTE
# STRCMD = tpcCstartCmdSH
# TSCOM = tpcCt scomSH
# TECOM = tpcCtecomSH
LOGOUT = NONE
LOGMODE = ALL
LOGCOMMENT= COMOFF
LOGFILE = tpcC.log
SIMFILE = ../data/tpcc.pps
PROTOCOL = telnet,80
#WAREHOUSE SCALE
VAL = U11 = 1422
#RAMP-UP TIME
VAL = U21 = 0
#MEASUREMENT TIME
VAL = U31 = 7200
#RAMP-DOWN TIME
VAL = U41 = 0
#NEW THINKTIME (msec)
VAL = U51 = 12040
#PAY THINKTIME (msec)
```

```
VAL = U61 = 12040
#
VAL = U71 = 0
VAL = U81 = 0
VAL = U91 = 0
#
#ORD THINKTIME (msec)
VAL = U101 = 10190
#DEL THINKTIME (msec)
VAL = U111 = 5040
#STK THINKTIME (msec)
VAL = U121 = 5040
#NURAND CONSTANT c_id
VAL = U131 = 777
#NURAND CONSTANT c_last
VAL = U141 = 111
#NURAND CONSTANT ol_i_id
VAL = U151 = 3562
#MSG OFF:0, Each Term:1, Field:2
VAL = U161 = 0
#NEW KEYING-TIME (msec)
VAL = U171 = 18100
#PAY KEYING-TIME (msec)
VAL = U181 = 3050
#ORD KEYING-TIME (msec)
VAL = U191 = 2050
#DEL KEYING-TIME (msec)
VAL = U201 = 2050
#STK KEYING-TIME (msec)
VAL = U211 = 2050
ENDGROUP
```





# Appendix D: System Tunables

## File: Client.reg

REGEDIT4

```
[HKEY_LOCAL_MACHINE\SOFTWARE\FujitsuT
PC-C ISAPI Application]
"Term_Base"=dword:00000001
"NumWarehouses"=dword:0000058e
"MaxUsers"=dword:0000378c
"MaxTerm of Client"=dword:000007bc
"CONTROL_Flag"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\InetInfo]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\InetInfo\Parameters]
"BandwidthLevel"=dword:ffffff
"ListenBackLog"=dword:00000019
"TreadTimeout"=dword:00000100
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\InetInfo\Parameters\Filter]
"FilterType"=dword:00000000
"NumGrantSites"=dword:00000000
"NumDenySites"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\InetInfo\Parameters\MimeMap]
"text/html,htm,,h"=""
"image/gif,gif,g"=""
"image/jpeg,jpg,,"=""
"text/plain,txt,,"=""
"text/html,html,,h"=""
"image/jpeg,jpeg,,"=""
"image/jpeg,jpe,,"=""
"image/bmp,bmp,,"=""
"application/octet-stream,,"=""
"application/pdf,pdf,,5"=""
"application/octet-stream,bin,,5"=""
"application/oda,oda,,5"=""
"application/zip,zip,,9"=""
"application/rtf,rtf,,5"=""
"application/postscript,ps,,5"=""
"application/postscript,ai,,5"=""
"application/postscript,eps,,5"=""
"application/mac-binhex40,hqx,4"=""
"application/msword,doc,,5"=""
"application/msword,dot,,5"=""
"application/winhelp,hlp,,5"=""
"video/mpeg,mpeg,,"=""
"video/mpeg,mpg,,"=""
"video/mpeg,mpe,,"=""
"video/x-msvideo,avi,<"=""
"video/quicktime,qt,,"=""
```

```
"video/quicktime,mov,,"=""
"video/x-sgi-movie,movie,<"=""
"x-world/x-vrml,wrl,,5"=""
"x-world/x-vrml,xaf,,5"=""
"x-world/x-vrml,xof,,5"=""
"x-world/x-vrml,flr,,5"=""
"x-world/x-vrml,wrz,,5"=""
"application/x-director,dcr,,5"=""
"application/x-director,dir,,5"=""
"application/x-director,dxr,,5"=""
"image/cis-cod,cod,,5"=""
"image/x-cmx,cmx,,5"=""
"application/envoy,evy,,5"=""
"application/x-msaccess,mdb,,5"=""
"application/x-mscardfile,crd,,5"=""
"application/x-mscclip,clip,,5"=""
"application/octet-stream,exe,,5"=""
"application/x-msexcel,xla,,5"=""
"application/x-msexcel,xlc,,5"=""
"application/x-msexcel,xlm,,5"=""
"application/x-msexcel,xls,,5"=""
"application/x-msexcel,xlt,,5"=""
"application/x-msexcel,xlw,,5"=""
"application/x-msmediaview,m13,,5"=""
"application/x-msmediaview,m14,,5"=""
"application/x-msmoney,mny,,5"=""
"application/x-mspowerpoint,ppt,,5"=""
"application/x-msproject,mpp,,5"=""
"application/x-mspublisher,pub,,5"=""
"application/x-sterminal,trm,,5"=""
"application/x-msworks,wks,,5"=""
"application/x-mswrite,wri,,5"=""
"application/x-msmetafile,wmf,,5"=""
"application/x-csh,csh,,5"=""
"application/x-dvi,dvi,,5"=""
"application/x-hdf,hdf,,5"=""
"application/x-latex,latex,,5"=""
"application/x-netcdf,nc,,5"=""
"application/x-netcdf,cdf,,5"=""
"application/x-sh,sh,,5"=""
"application/x-tcl,tcl,,5"=""
"application/x-tex,tex,,5"=""
"application/x-texinfo,texinfo,,5"=""
"application/x-texinfo,texi,,5"=""
"application/x-troff,t,5"=""
"application/x-troff,tr,5"=""
"application/x-troff,roff,,5"=""
"application/x-troff-man,man,,5"=""
"application/x-troff-me,me,,5"=""
"application/x-troff-ms,ms,,5"=""
"application/x-wais-source,src,,7"=""
"application/x-bcpio,bcpio,,5"=""
"application/x-cpio,cpio,,5"=""
"application/x-gtar,gtar,,9"=""
"application/x-shar,shar,,5"=""
"application/x-sv4cpio,sv4cpio,,5"=""
"application/x-sv4crc,sv4crc,,5"=""
"application/x-tar,tar,,5"=""
"application/x-ustar,ustar,,5"=""
"audio/basic,au,<"=""
"audio/basic,snd,<"=""
"audio/x-aiff,aiff,<"=""
"audio/x-aiff,aiff,<"=""
"audio/x-aiff,aifc,<"=""
"audio/x-wav,wav,<"=""
"audio/x-pn-realaudio,ram,<"=""
"image/ief,ief,,"=""
"image/tiff,tiff,,"=""
```

```
"image/tiff,tif,,"=""
"image/x-cmu-raster,ras,,"=""
"image/x-portable-anymap,pnm,,"=""
"image/x-portable-bitmap,pbm,,"=""
"image/x-portable-graymap,pgm,,"=""
"image/x-portable-pixmap,ppm,,"=""
"image/x-rgb,rgb,,"=""
"image/x-xbitmap,xbm,,"=""
"image/x-xpixmap,xpm,,"=""
"image/x-xwindowdump,xwd,,"=""
"text/html,stm,,h"=""
"text/plain,bas,,0"=""
"text/plain,c,,0"=""
"text/plain,h,,0"=""
"text/richtext,rtx,,0"=""
"text/tab-separated-values,tsv,,0"=""
"text/x-setext,etx,,0"=""
"application/x-perfmon,pmc,,5"=""
"application/x-perfmon,pma,,5"=""
"application/x-perfmon,pmr,,5"=""
```

```
"application/x-perfmon,pml,,5"=""
"application/x-perfmon,pmw,,5"=""
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\InetInfo\Performance]
"Library"="InetInfo.DLL"
"Open"="OpenINFOPerformanceData"
"Close"="CloseINFOPerformanceData"
"Collect"="CollectINFOPerformanceData"
"Last Counter"=dword:00000756
"Last Help"=dword:00000757
"First Counter"=dword:00000738
"First Help"=dword:00000739
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC]
"Type"=dword:00000020
"Start"=dword:00000002
"ErrorControl"=dword:00000000
"ImagePath"=hex(2):43,5c,57,49,4e,4e,54,5c,5
3,79,73,74,65,6d,33,32,5c,69,6e,\
```

```
65,74,73,72,76,5c,69,6e,65,74,69,6e,66,6f,2e,65,7
8,65,00
"DisplayName"="World Wide Web Publishing
Service"
"DependOnService"=hex(7):52,50,43,53,53,00,4e,
54,4c,4d,53,53,50,00,00
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC\Parameters]
"MajorVersion"=dword:00000002
"MinorVersion"=dword:00000000
"AdminName"="Administrator"
"AdminEmail"="Admin@corp.com"
"MaxConnections"=dword:000186a0
"LogType"=dword:00000000
"LogFileDirectory"=hex(2):25,53,79,73,74,65,6d,5
2,6f,6f,74,25,5c,53,79,73,74,\
65,6d,33,32,5c,4c,6f,67,46,69,6c,65,73,00
"LogFileTruncateSize"=dword:01400000
"LogFilePeriod"=dword:00000001
"LogFileFormat"=dword:00000000
"LogSqlDataSource"="HTTPLOG"
"LogSqlTableName"="Internetlog"
```

```

"LogSqlUserName"="InternetAdmin"
"LogSqlPassword"="sqllog"
"Authorization"=dword:00000005
"AnonymousUserName"="IUSR_NTCL11"
"Default Load File"="Default.htm"
"Dir Browse Control"=dword:4000001e
"CheckForWAISDB"=dword:00000000
"CacheExtensions"=dword:00000001
"GlobalExpire"=dword:ffffff
"ServerSideIncludesEnabled"=dword:00000001
"ServerSideIncludesExtension"=".stm"

"DebugFlags"=dword:00000008
"ScriptTimeout"=dword:00000384
"ConnectionTimeOut"=dword:00001f40
"InstallPath"="C:\WINNT\System32\inetnsrv"
"SecurePort"=dword:000001bb
"Filter
DLLs"="C:\WINNT\System32\inetnsrv\lsspifilt.dll"
"AccessDeniedMessage"="Error : Access was
denied."
"NTAuthenticationProviders"="NTLM"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC\Parameters\Script Map]
".idc"="C:\WINNT\System32\inetnsrv\hitpodb.c
"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC\Parameters\Virtual Roots]
"/,="C:\inetpub\wwwroot,,1"
"/tpcA,="C:\client\tpaplFML\insnp,,5"
"/tpcR,="C:\client\tpaplFML\Release,,5"
"/tpc,="C:\client\tpaplFML\tpaplKeep,,5"
"/tpcT,="C:\client\tpaplFML\TKT\Release,,5"
"/Scripts,="C:\inetpub\scripts,,4"
"/iisadmin,="C:\WINNT\System32\inetnsrv\iisad
min,,1"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC\Performance]
"Library"="w3ctrs.DLL"
"Open"="OpenW3PerformanceData"
"Close"="CloseW3PerformanceData"
"Collect"="CollectW3PerformanceData"
"Last Counter"=dword:00000790
"Last Help"=dword:00000791
"First Counter"=dword:00000758
"First Help"=dword:00000759

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC\Security]
"Security"=hex:01,00,14,80,c0,00,00,00,cc,00,00,
00,14,00,00,00,34,00,00,00,02,\

00,20,00,01,00,00,00,02,80,18,00,ff,01,0f,00,01,0
1,00,00,00,00,00,01,00,00,\

00,00,20,02,00,00,02,00,8c,00,05,00,00,00,00,00,
18,00,8d,01,02,00,01,01,00,\

00,00,00,00,01,00,00,00,00,00,00,69,00,00,00,1c,
00,fd,01,02,00,01,02,00,00,\

00,00,00,05,20,00,00,00,23,02,00,00,c8,00,14,00,
00,00,1c,00,ff,01,0f,00,01,\

```

```

02,00,00,00,00,00,05,20,00,00,00,20,02,00,00,c8,
00,14,00,00,00,1c,00,ff,01,\

0f,00,01,02,00,00,00,00,05,20,00,00,00,25,02,
00,00,c8,00,14,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,05,12,00,00,
00,25,02,00,00,01,01,00,00,\

00,00,00,05,12,00,00,00,01,01,00,00,00,00,05,
12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC\W3SAMP]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC\Enum]
"0"="Root\LEGACY_W3SVC\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

```

**File: conbf.oza pgsr.dat**

```

#####
## for 1458WH
#####

## WAREHOUSE_DSI buffer
TPCC.WAREHOUSE_1_DSI W_1
TPCC.WAREHOUSE_2_DSI W_2
TPCC.WAREHOUSE_3_DSI W_3
TPCC.WAREHOUSE_4_DSI W_4
TPCC.WAREHOUSE_5_DSI W_5
TPCC.WAREHOUSE_6_DSI W_6
TPCC.WAREHOUSE_7_DSI W_1
TPCC.WAREHOUSE_8_DSI W_2
TPCC.WAREHOUSE_9_DSI W_3
TPCC.WAREHOUSE_10_DSI W_4
TPCC.WAREHOUSE_11_DSI W_5
TPCC.WAREHOUSE_12_DSI W_6
TPCC.WAREHOUSE_13_DSI W_1
TPCC.WAREHOUSE_14_DSI W_2
TPCC.WAREHOUSE_15_DSI W_3
TPCC.WAREHOUSE_16_DSI W_4
TPCC.WAREHOUSE_17_DSI W_5
TPCC.WAREHOUSE_18_DSI W_6
TPCC.WAREHOUSE_19_DSI W_1
TPCC.WAREHOUSE_20_DSI W_2
TPCC.WAREHOUSE_21_DSI W_3
TPCC.WAREHOUSE_22_DSI W_4
TPCC.WAREHOUSE_23_DSI W_5
TPCC.WAREHOUSE_24_DSI W_6
TPCC.WAREHOUSE_25_DSI W_1
TPCC.WAREHOUSE_26_DSI W_2
TPCC.WAREHOUSE_27_DSI W_3

## DISTRICT_DSI buffer
TPCC.DISTRICT_1_DSI D_1
TPCC.DISTRICT_2_DSI D_2
TPCC.DISTRICT_3_DSI D_3
TPCC.DISTRICT_4_DSI D_4
TPCC.DISTRICT_5_DSI D_5

```

```

TPCC.DISTRICT_6_DSI D_6
TPCC.DISTRICT_7_DSI D_1
TPCC.DISTRICT_8_DSI D_2
TPCC.DISTRICT_9_DSI D_3
TPCC.DISTRICT_10_DSI D_4
TPCC.DISTRICT_11_DSI D_5
TPCC.DISTRICT_12_DSI D_6
TPCC.DISTRICT_13_DSI D_1
TPCC.DISTRICT_14_DSI D_2
TPCC.DISTRICT_15_DSI D_3
TPCC.DISTRICT_16_DSI D_4
TPCC.DISTRICT_17_DSI D_5
TPCC.DISTRICT_18_DSI D_6
TPCC.DISTRICT_19_DSI D_1
TPCC.DISTRICT_20_DSI D_2
TPCC.DISTRICT_21_DSI D_3
TPCC.DISTRICT_22_DSI D_4
TPCC.DISTRICT_23_DSI D_5
TPCC.DISTRICT_24_DSI D_6
TPCC.DISTRICT_25_DSI D_1
TPCC.DISTRICT_26_DSI D_2
TPCC.DISTRICT_27_DSI D_3

## CUSTOMER_DSI buffer
TPCC.CUSTOMER_1_DSI C_1
TPCC.CUSTOMER_2_DSI C_2
TPCC.CUSTOMER_3_DSI C_3
TPCC.CUSTOMER_4_DSI C_4
TPCC.CUSTOMER_5_DSI C_5
TPCC.CUSTOMER_6_DSI C_6
TPCC.CUSTOMER_7_DSI C_1
TPCC.CUSTOMER_8_DSI C_2
TPCC.CUSTOMER_9_DSI C_3
TPCC.CUSTOMER_10_DSI C_4
TPCC.CUSTOMER_11_DSI C_5
TPCC.CUSTOMER_12_DSI C_6
TPCC.CUSTOMER_13_DSI C_1
TPCC.CUSTOMER_14_DSI C_2
TPCC.CUSTOMER_15_DSI C_3
TPCC.CUSTOMER_16_DSI C_4
TPCC.CUSTOMER_17_DSI C_5
TPCC.CUSTOMER_18_DSI C_6
TPCC.CUSTOMER_19_DSI C_1
TPCC.CUSTOMER_20_DSI C_2
TPCC.CUSTOMER_21_DSI C_3
TPCC.CUSTOMER_22_DSI C_4
TPCC.CUSTOMER_23_DSI C_5
TPCC.CUSTOMER_24_DSI C_6
TPCC.CUSTOMER_25_DSI C_1
TPCC.CUSTOMER_26_DSI C_2
TPCC.CUSTOMER_27_DSI C_3
TPCC.CUSTOMER_28_DSI C_4
TPCC.CUSTOMER_29_DSI C_5
TPCC.CUSTOMER_30_DSI C_6
TPCC.CUSTOMER_31_DSI C_1
TPCC.CUSTOMER_32_DSI C_2
TPCC.CUSTOMER_33_DSI C_3
TPCC.CUSTOMER_34_DSI C_4
TPCC.CUSTOMER_35_DSI C_5
TPCC.CUSTOMER_36_DSI C_6
TPCC.CUSTOMER_37_DSI C_1
TPCC.CUSTOMER_38_DSI C_2
TPCC.CUSTOMER_39_DSI C_3
TPCC.CUSTOMER_40_DSI C_4
TPCC.CUSTOMER_41_DSI C_5
TPCC.CUSTOMER_42_DSI C_6
TPCC.CUSTOMER_43_DSI C_1

```

TPCC.CUSTOMER\_44\_DSI C\_2  
 TPCC.CUSTOMER\_45\_DSI C\_3  
 TPCC.CUSTOMER\_46\_DSI C\_4  
 TPCC.CUSTOMER\_47\_DSI C\_5  
 TPCC.CUSTOMER\_48\_DSI C\_6  
 TPCC.CUSTOMER\_49\_DSI C\_1  
 TPCC.CUSTOMER\_50\_DSI C\_2  
 TPCC.CUSTOMER\_51\_DSI C\_3  
 TPCC.CUSTOMER\_52\_DSI C\_4  
 TPCC.CUSTOMER\_53\_DSI C\_5  
 TPCC.CUSTOMER\_54\_DSI C\_6  
 TPCC.CUSTOMER\_55\_DSI C\_1  
 TPCC.CUSTOMER\_56\_DSI C\_2  
 TPCC.CUSTOMER\_57\_DSI C\_3  
 TPCC.CUSTOMER\_58\_DSI C\_4  
 TPCC.CUSTOMER\_59\_DSI C\_5  
 TPCC.CUSTOMER\_60\_DSI C\_6  
 TPCC.CUSTOMER\_61\_DSI C\_1  
 TPCC.CUSTOMER\_62\_DSI C\_2  
 TPCC.CUSTOMER\_63\_DSI C\_3  
 TPCC.CUSTOMER\_64\_DSI C\_4  
 TPCC.CUSTOMER\_65\_DSI C\_5  
 TPCC.CUSTOMER\_66\_DSI C\_6  
 TPCC.CUSTOMER\_67\_DSI C\_1  
 TPCC.CUSTOMER\_68\_DSI C\_2  
 TPCC.CUSTOMER\_69\_DSI C\_3  
 TPCC.CUSTOMER\_70\_DSI C\_4  
 TPCC.CUSTOMER\_71\_DSI C\_5  
 TPCC.CUSTOMER\_72\_DSI C\_6  
 TPCC.CUSTOMER\_73\_DSI C\_1  
 TPCC.CUSTOMER\_74\_DSI C\_2  
 TPCC.CUSTOMER\_75\_DSI C\_3  
 TPCC.CUSTOMER\_76\_DSI C\_4  
 TPCC.CUSTOMER\_77\_DSI C\_5  
 TPCC.CUSTOMER\_78\_DSI C\_6  
 TPCC.CUSTOMER\_79\_DSI C\_1  
 TPCC.CUSTOMER\_80\_DSI C\_2  
 TPCC.CUSTOMER\_81\_DSI C\_3  
 TPCC.CUSTOMER\_82\_DSI C\_4  
 TPCC.CUSTOMER\_83\_DSI C\_5  
 TPCC.CUSTOMER\_84\_DSI C\_6  
 TPCC.CUSTOMER\_85\_DSI C\_1  
 TPCC.CUSTOMER\_86\_DSI C\_2  
 TPCC.CUSTOMER\_87\_DSI C\_3  
 TPCC.CUSTOMER\_88\_DSI C\_4  
 TPCC.CUSTOMER\_89\_DSI C\_5  
 TPCC.CUSTOMER\_90\_DSI C\_6  
 TPCC.CUSTOMER\_91\_DSI C\_1  
 TPCC.CUSTOMER\_92\_DSI C\_2  
 TPCC.CUSTOMER\_93\_DSI C\_3  
 TPCC.CUSTOMER\_94\_DSI C\_4  
 TPCC.CUSTOMER\_95\_DSI C\_5  
 TPCC.CUSTOMER\_96\_DSI C\_6  
 TPCC.CUSTOMER\_97\_DSI C\_1  
 TPCC.CUSTOMER\_98\_DSI C\_2  
 TPCC.CUSTOMER\_99\_DSI C\_3  
 TPCC.CUSTOMER\_100\_DSI C\_4  
 TPCC.CUSTOMER\_101\_DSI C\_5  
 TPCC.CUSTOMER\_102\_DSI C\_6  
 TPCC.CUSTOMER\_103\_DSI C\_1  
 TPCC.CUSTOMER\_104\_DSI C\_2  
 TPCC.CUSTOMER\_105\_DSI C\_3  
 TPCC.CUSTOMER\_106\_DSI C\_4  
 TPCC.CUSTOMER\_107\_DSI C\_5  
 TPCC.CUSTOMER\_108\_DSI C\_6  
 TPCC.CUSTOMER\_109\_DSI C\_1  
 TPCC.CUSTOMER\_110\_DSI C\_2  
 TPCC.CUSTOMER\_111\_DSI C\_3

TPCC.CUSTOMER\_112\_DSI C\_4  
 TPCC.CUSTOMER\_113\_DSI C\_5  
 TPCC.CUSTOMER\_114\_DSI C\_6  
 TPCC.CUSTOMER\_115\_DSI C\_1  
 TPCC.CUSTOMER\_116\_DSI C\_2  
 TPCC.CUSTOMER\_117\_DSI C\_3  
 TPCC.CUSTOMER\_118\_DSI C\_4  
 TPCC.CUSTOMER\_119\_DSI C\_5  
 TPCC.CUSTOMER\_120\_DSI C\_6  
 TPCC.CUSTOMER\_121\_DSI C\_1  
 TPCC.CUSTOMER\_122\_DSI C\_2  
 TPCC.CUSTOMER\_123\_DSI C\_3  
 TPCC.CUSTOMER\_124\_DSI C\_4  
 TPCC.CUSTOMER\_125\_DSI C\_5  
 TPCC.CUSTOMER\_126\_DSI C\_6  
 TPCC.CUSTOMER\_127\_DSI C\_1  
 TPCC.CUSTOMER\_128\_DSI C\_2  
 TPCC.CUSTOMER\_129\_DSI C\_3  
 TPCC.CUSTOMER\_130\_DSI C\_4  
 TPCC.CUSTOMER\_131\_DSI C\_5  
 TPCC.CUSTOMER\_132\_DSI C\_6  
 TPCC.CUSTOMER\_133\_DSI C\_1  
 TPCC.CUSTOMER\_134\_DSI C\_2  
 TPCC.CUSTOMER\_135\_DSI C\_3  
 TPCC.CUSTOMER\_136\_DSI C\_4  
 TPCC.CUSTOMER\_137\_DSI C\_5  
 TPCC.CUSTOMER\_138\_DSI C\_6  
 TPCC.CUSTOMER\_139\_DSI C\_1  
 TPCC.CUSTOMER\_140\_DSI C\_2  
 TPCC.CUSTOMER\_141\_DSI C\_3  
 TPCC.CUSTOMER\_142\_DSI C\_4  
 TPCC.CUSTOMER\_143\_DSI C\_5  
 TPCC.CUSTOMER\_144\_DSI C\_6  
 TPCC.CUSTOMER\_145\_DSI C\_1  
 TPCC.CUSTOMER\_146\_DSI C\_2  
 TPCC.CUSTOMER\_147\_DSI C\_3  
 TPCC.CUSTOMER\_148\_DSI C\_4  
 TPCC.CUSTOMER\_149\_DSI C\_5  
 TPCC.CUSTOMER\_150\_DSI C\_6  
 TPCC.CUSTOMER\_151\_DSI C\_1  
 TPCC.CUSTOMER\_152\_DSI C\_2  
 TPCC.CUSTOMER\_153\_DSI C\_3  
 TPCC.CUSTOMER\_154\_DSI C\_4  
 TPCC.CUSTOMER\_155\_DSI C\_5  
 TPCC.CUSTOMER\_156\_DSI C\_6  
 TPCC.CUSTOMER\_157\_DSI C\_1  
 TPCC.CUSTOMER\_158\_DSI C\_2  
 #TPCC.CUSTOMER\_159\_DSI C\_3  
 #TPCC.CUSTOMER\_160\_DSI C\_4  
 #TPCC.CUSTOMER\_161\_DSI C\_5  
 #TPCC.CUSTOMER\_162\_DSI C\_6  
  
 ## CUSTOMER\_IX\_DSI buffer  
 TPCC.CUSTOMER\_IX\_1DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_2DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_3DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_4DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_5DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_6DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_7DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_8DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_9DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_10DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_11DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_12DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_13DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_14DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_15DSI C\_IX\_3

TPCC.CUSTOMER\_IX\_16DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_17DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_18DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_19DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_20DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_21DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_22DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_23DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_24DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_25DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_26DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_27DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_28DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_29DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_30DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_31DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_32DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_33DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_34DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_35DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_36DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_37DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_38DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_39DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_40DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_41DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_42DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_43DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_44DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_45DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_46DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_47DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_48DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_49DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_50DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_51DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_52DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_53DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_54DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_55DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_56DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_57DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_58DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_59DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_60DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_61DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_62DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_63DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_64DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_65DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_66DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_67DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_68DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_69DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_70DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_71DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_72DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_73DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_74DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_75DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_76DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_77DSI C\_IX\_5  
 TPCC.CUSTOMER\_IX\_78DSI C\_IX\_6  
 TPCC.CUSTOMER\_IX\_79DSI C\_IX\_1  
 TPCC.CUSTOMER\_IX\_80DSI C\_IX\_2  
 TPCC.CUSTOMER\_IX\_81DSI C\_IX\_3  
 TPCC.CUSTOMER\_IX\_82DSI C\_IX\_4  
 TPCC.CUSTOMER\_IX\_83DSI C\_IX\_5

TPCC.CUSTOMER_IX_84DSI	C_IX_6	TPCC.CUSTOMER_IX_152DSI	C_IX_2	TPCC.ORDERS_56_DSI	0_2
TPCC.CUSTOMER_IX_85DSI	C_IX_1	TPCC.CUSTOMER_IX_153DSI	C_IX_3	TPCC.ORDERS_57_DSI	0_3
TPCC.CUSTOMER_IX_86DSI	C_IX_2	TPCC.CUSTOMER_IX_154DSI	C_IX_4	TPCC.ORDERS_58_DSI	0_4
TPCC.CUSTOMER_IX_87DSI	C_IX_3	TPCC.CUSTOMER_IX_155DSI	C_IX_5	TPCC.ORDERS_59_DSI	0_5
TPCC.CUSTOMER_IX_88DSI	C_IX_4	TPCC.CUSTOMER_IX_156DSI	C_IX_6	TPCC.ORDERS_60_DSI	0_6
TPCC.CUSTOMER_IX_89DSI	C_IX_5	TPCC.CUSTOMER_IX_157DSI	C_IX_1	TPCC.ORDERS_61_DSI	0_1
TPCC.CUSTOMER_IX_90DSI	C_IX_6	TPCC.CUSTOMER_IX_158DSI	C_IX_2	TPCC.ORDERS_62_DSI	0_2
TPCC.CUSTOMER_IX_91DSI	C_IX_1	#TPCC.CUSTOMER_IX_159DSI	C_IX_3	TPCC.ORDERS_63_DSI	0_3
TPCC.CUSTOMER_IX_92DSI	C_IX_2	#TPCC.CUSTOMER_IX_160DSI	C_IX_4	TPCC.ORDERS_64_DSI	0_4
TPCC.CUSTOMER_IX_93DSI	C_IX_3	#TPCC.CUSTOMER_IX_161DSI	C_IX_5	TPCC.ORDERS_65_DSI	0_5
TPCC.CUSTOMER_IX_94DSI	C_IX_4	#TPCC.CUSTOMER_IX_162DSI	C_IX_6	TPCC.ORDERS_66_DSI	0_6
TPCC.CUSTOMER_IX_95DSI	C_IX_5			TPCC.ORDERS_67_DSI	0_1
TPCC.CUSTOMER_IX_96DSI	C_IX_6	## ORDERS_DSI buffer		TPCC.ORDERS_68_DSI	0_2
TPCC.CUSTOMER_IX_97DSI	C_IX_1	TPCC.ORDERS_1_DSI	0_1	TPCC.ORDERS_69_DSI	0_3
TPCC.CUSTOMER_IX_98DSI	C_IX_2	TPCC.ORDERS_2_DSI	0_2	TPCC.ORDERS_70_DSI	0_4
TPCC.CUSTOMER_IX_99DSI	C_IX_3	TPCC.ORDERS_3_DSI	0_3	TPCC.ORDERS_71_DSI	0_5
TPCC.CUSTOMER_IX_100DSI	C_IX_4	TPCC.ORDERS_4_DSI	0_4	TPCC.ORDERS_72_DSI	0_6
TPCC.CUSTOMER_IX_101DSI	C_IX_5	TPCC.ORDERS_5_DSI	0_5	TPCC.ORDERS_73_DSI	0_1
TPCC.CUSTOMER_IX_102DSI	C_IX_6	TPCC.ORDERS_6_DSI	0_6	TPCC.ORDERS_74_DSI	0_2
TPCC.CUSTOMER_IX_103DSI	C_IX_1	TPCC.ORDERS_7_DSI	0_1	TPCC.ORDERS_75_DSI	0_3
TPCC.CUSTOMER_IX_104DSI	C_IX_2	TPCC.ORDERS_8_DSI	0_2	TPCC.ORDERS_76_DSI	0_4
TPCC.CUSTOMER_IX_105DSI	C_IX_3	TPCC.ORDERS_9_DSI	0_3	TPCC.ORDERS_77_DSI	0_5
TPCC.CUSTOMER_IX_106DSI	C_IX_4	TPCC.ORDERS_10_DSI	0_4	TPCC.ORDERS_78_DSI	0_6
TPCC.CUSTOMER_IX_107DSI	C_IX_5	TPCC.ORDERS_11_DSI	0_5	TPCC.ORDERS_79_DSI	0_1
TPCC.CUSTOMER_IX_108DSI	C_IX_6	TPCC.ORDERS_12_DSI	0_6	TPCC.ORDERS_80_DSI	0_2
TPCC.CUSTOMER_IX_109DSI	C_IX_1	TPCC.ORDERS_13_DSI	0_1	TPCC.ORDERS_81_DSI	0_3
TPCC.CUSTOMER_IX_110DSI	C_IX_2	TPCC.ORDERS_14_DSI	0_2	TPCC.ORDERS_82_DSI	0_4
TPCC.CUSTOMER_IX_111DSI	C_IX_3	TPCC.ORDERS_15_DSI	0_3	TPCC.ORDERS_83_DSI	0_5
TPCC.CUSTOMER_IX_112DSI	C_IX_4	TPCC.ORDERS_16_DSI	0_4	TPCC.ORDERS_84_DSI	0_6
TPCC.CUSTOMER_IX_113DSI	C_IX_5	TPCC.ORDERS_17_DSI	0_5	TPCC.ORDERS_85_DSI	0_1
TPCC.CUSTOMER_IX_114DSI	C_IX_6	TPCC.ORDERS_18_DSI	0_6	TPCC.ORDERS_86_DSI	0_2
TPCC.CUSTOMER_IX_115DSI	C_IX_1	TPCC.ORDERS_19_DSI	0_1	TPCC.ORDERS_87_DSI	0_3
TPCC.CUSTOMER_IX_116DSI	C_IX_2	TPCC.ORDERS_20_DSI	0_2	TPCC.ORDERS_88_DSI	0_4
TPCC.CUSTOMER_IX_117DSI	C_IX_3	TPCC.ORDERS_21_DSI	0_3	TPCC.ORDERS_89_DSI	0_5
TPCC.CUSTOMER_IX_118DSI	C_IX_4	TPCC.ORDERS_22_DSI	0_4	TPCC.ORDERS_90_DSI	0_6
TPCC.CUSTOMER_IX_119DSI	C_IX_5	TPCC.ORDERS_23_DSI	0_5	TPCC.ORDERS_91_DSI	0_1
TPCC.CUSTOMER_IX_120DSI	C_IX_6	TPCC.ORDERS_24_DSI	0_6	TPCC.ORDERS_92_DSI	0_2
TPCC.CUSTOMER_IX_121DSI	C_IX_1	TPCC.ORDERS_25_DSI	0_1	TPCC.ORDERS_93_DSI	0_3
TPCC.CUSTOMER_IX_122DSI	C_IX_2	TPCC.ORDERS_26_DSI	0_2	TPCC.ORDERS_94_DSI	0_4
TPCC.CUSTOMER_IX_123DSI	C_IX_3	TPCC.ORDERS_27_DSI	0_3	TPCC.ORDERS_95_DSI	0_5
TPCC.CUSTOMER_IX_124DSI	C_IX_4	TPCC.ORDERS_28_DSI	0_4	TPCC.ORDERS_96_DSI	0_6
TPCC.CUSTOMER_IX_125DSI	C_IX_5	TPCC.ORDERS_29_DSI	0_5	TPCC.ORDERS_97_DSI	0_1
TPCC.CUSTOMER_IX_126DSI	C_IX_6	TPCC.ORDERS_30_DSI	0_6	TPCC.ORDERS_98_DSI	0_2
TPCC.CUSTOMER_IX_127DSI	C_IX_1	TPCC.ORDERS_31_DSI	0_1	TPCC.ORDERS_99_DSI	0_3
TPCC.CUSTOMER_IX_128DSI	C_IX_2	TPCC.ORDERS_32_DSI	0_2	TPCC.ORDERS_100_DSI	0_4
TPCC.CUSTOMER_IX_129DSI	C_IX_3	TPCC.ORDERS_33_DSI	0_3	TPCC.ORDERS_101_DSI	0_5
TPCC.CUSTOMER_IX_130DSI	C_IX_4	TPCC.ORDERS_34_DSI	0_4	TPCC.ORDERS_102_DSI	0_6
TPCC.CUSTOMER_IX_131DSI	C_IX_5	TPCC.ORDERS_35_DSI	0_5	TPCC.ORDERS_103_DSI	0_1
TPCC.CUSTOMER_IX_132DSI	C_IX_6	TPCC.ORDERS_36_DSI	0_6	TPCC.ORDERS_104_DSI	0_2
TPCC.CUSTOMER_IX_133DSI	C_IX_1	TPCC.ORDERS_37_DSI	0_1	TPCC.ORDERS_105_DSI	0_3
TPCC.CUSTOMER_IX_134DSI	C_IX_2	TPCC.ORDERS_38_DSI	0_2	TPCC.ORDERS_106_DSI	0_4
TPCC.CUSTOMER_IX_135DSI	C_IX_3	TPCC.ORDERS_39_DSI	0_3	TPCC.ORDERS_107_DSI	0_5
TPCC.CUSTOMER_IX_136DSI	C_IX_4	TPCC.ORDERS_40_DSI	0_4	TPCC.ORDERS_108_DSI	0_6
TPCC.CUSTOMER_IX_137DSI	C_IX_5	TPCC.ORDERS_41_DSI	0_5	TPCC.ORDERS_109_DSI	0_1
TPCC.CUSTOMER_IX_138DSI	C_IX_6	TPCC.ORDERS_42_DSI	0_6	TPCC.ORDERS_110_DSI	0_2
TPCC.CUSTOMER_IX_139DSI	C_IX_1	TPCC.ORDERS_43_DSI	0_1	TPCC.ORDERS_111_DSI	0_3
TPCC.CUSTOMER_IX_140DSI	C_IX_2	TPCC.ORDERS_44_DSI	0_2	TPCC.ORDERS_112_DSI	0_4
TPCC.CUSTOMER_IX_141DSI	C_IX_3	TPCC.ORDERS_45_DSI	0_3	TPCC.ORDERS_113_DSI	0_5
TPCC.CUSTOMER_IX_142DSI	C_IX_4	TPCC.ORDERS_46_DSI	0_4	TPCC.ORDERS_114_DSI	0_6
TPCC.CUSTOMER_IX_143DSI	C_IX_5	TPCC.ORDERS_47_DSI	0_5	TPCC.ORDERS_115_DSI	0_1
TPCC.CUSTOMER_IX_144DSI	C_IX_6	TPCC.ORDERS_48_DSI	0_6	TPCC.ORDERS_116_DSI	0_2
TPCC.CUSTOMER_IX_145DSI	C_IX_1	TPCC.ORDERS_49_DSI	0_1	TPCC.ORDERS_117_DSI	0_3
TPCC.CUSTOMER_IX_146DSI	C_IX_2	TPCC.ORDERS_50_DSI	0_2	TPCC.ORDERS_118_DSI	0_4
TPCC.CUSTOMER_IX_147DSI	C_IX_3	TPCC.ORDERS_51_DSI	0_3	TPCC.ORDERS_119_DSI	0_5
TPCC.CUSTOMER_IX_148DSI	C_IX_4	TPCC.ORDERS_52_DSI	0_4	TPCC.ORDERS_120_DSI	0_6
TPCC.CUSTOMER_IX_149DSI	C_IX_5	TPCC.ORDERS_53_DSI	0_5	TPCC.ORDERS_121_DSI	0_1
TPCC.CUSTOMER_IX_150DSI	C_IX_6	TPCC.ORDERS_54_DSI	0_6	TPCC.ORDERS_122_DSI	0_2
TPCC.CUSTOMER_IX_151DSI	C_IX_1	TPCC.ORDERS_55_DSI	0_1	TPCC.ORDERS_123_DSI	0_3

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TPCC.ORDERS_124_DSI O_4
TPCC.ORDERS_125_DSI O_5
TPCC.ORDERS_126_DSI O_6
TPCC.ORDERS_127_DSI O_1
TPCC.ORDERS_128_DSI O_2
TPCC.ORDERS_129_DSI O_3
TPCC.ORDERS_130_DSI O_4
TPCC.ORDERS_131_DSI O_5
TPCC.ORDERS_132_DSI O_6
TPCC.ORDERS_133_DSI O_1
TPCC.ORDERS_134_DSI O_2
TPCC.ORDERS_135_DSI O_3
TPCC.ORDERS_136_DSI O_4
TPCC.ORDERS_137_DSI O_5
TPCC.ORDERS_138_DSI O_6
TPCC.ORDERS_139_DSI O_1
TPCC.ORDERS_140_DSI O_2
TPCC.ORDERS_141_DSI O_3
TPCC.ORDERS_142_DSI O_4
TPCC.ORDERS_143_DSI O_5
TPCC.ORDERS_144_DSI O_6
TPCC.ORDERS_145_DSI O_1
TPCC.ORDERS_146_DSI O_2
TPCC.ORDERS_147_DSI O_3
TPCC.ORDERS_148_DSI O_4
TPCC.ORDERS_149_DSI O_5
TPCC.ORDERS_150_DSI O_6
TPCC.ORDERS_151_DSI O_1
TPCC.ORDERS_152_DSI O_2
TPCC.ORDERS_153_DSI O_3
TPCC.ORDERS_154_DSI O_4
TPCC.ORDERS_155_DSI O_5
TPCC.ORDERS_156_DSI O_6
TPCC.ORDERS_157_DSI O_1
TPCC.ORDERS_158_DSI O_2
#TPCC.ORDERS_159_DSI O_3
#TPCC.ORDERS_160_DSI O_4
#TPCC.ORDERS_161_DSI O_5
#TPCC.ORDERS_162_DSI O_6

## ORDERS_IX_DSI buffer
TPCC.ORDERS_IX_1_DSI O_IX_1
TPCC.ORDERS_IX_2_DSI O_IX_2
TPCC.ORDERS_IX_3_DSI O_IX_3
TPCC.ORDERS_IX_4_DSI O_IX_4
TPCC.ORDERS_IX_5_DSI O_IX_5
TPCC.ORDERS_IX_6_DSI O_IX_6
TPCC.ORDERS_IX_7_DSI O_IX_1
TPCC.ORDERS_IX_8_DSI O_IX_2
TPCC.ORDERS_IX_9_DSI O_IX_3
TPCC.ORDERS_IX_10_DSI O_IX_4
TPCC.ORDERS_IX_11_DSI O_IX_5
TPCC.ORDERS_IX_12_DSI O_IX_6
TPCC.ORDERS_IX_13_DSI O_IX_1
TPCC.ORDERS_IX_14_DSI O_IX_2
TPCC.ORDERS_IX_15_DSI O_IX_3
TPCC.ORDERS_IX_16_DSI O_IX_4
TPCC.ORDERS_IX_17_DSI O_IX_5
TPCC.ORDERS_IX_18_DSI O_IX_6
TPCC.ORDERS_IX_19_DSI O_IX_1
TPCC.ORDERS_IX_20_DSI O_IX_2
TPCC.ORDERS_IX_21_DSI O_IX_3
TPCC.ORDERS_IX_22_DSI O_IX_4
TPCC.ORDERS_IX_23_DSI O_IX_5
TPCC.ORDERS_IX_24_DSI O_IX_6
TPCC.ORDERS_IX_25_DSI O_IX_1
TPCC.ORDERS_IX_26_DSI O_IX_2
TPCC.ORDERS_IX_27_DSI O_IX_3

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TPCC.ORDERS_IX_28_DSI O_IX_4
TPCC.ORDERS_IX_29_DSI O_IX_5
TPCC.ORDERS_IX_30_DSI O_IX_6
TPCC.ORDERS_IX_31_DSI O_IX_1
TPCC.ORDERS_IX_32_DSI O_IX_2
TPCC.ORDERS_IX_33_DSI O_IX_3
TPCC.ORDERS_IX_34_DSI O_IX_4
TPCC.ORDERS_IX_35_DSI O_IX_5
TPCC.ORDERS_IX_36_DSI O_IX_6
TPCC.ORDERS_IX_37_DSI O_IX_1
TPCC.ORDERS_IX_38_DSI O_IX_2
TPCC.ORDERS_IX_39_DSI O_IX_3
TPCC.ORDERS_IX_40_DSI O_IX_4
TPCC.ORDERS_IX_41_DSI O_IX_5
TPCC.ORDERS_IX_42_DSI O_IX_6
TPCC.ORDERS_IX_43_DSI O_IX_1
TPCC.ORDERS_IX_44_DSI O_IX_2
TPCC.ORDERS_IX_45_DSI O_IX_3
TPCC.ORDERS_IX_46_DSI O_IX_4
TPCC.ORDERS_IX_47_DSI O_IX_5
TPCC.ORDERS_IX_48_DSI O_IX_6
TPCC.ORDERS_IX_49_DSI O_IX_1
TPCC.ORDERS_IX_50_DSI O_IX_2
TPCC.ORDERS_IX_51_DSI O_IX_3
TPCC.ORDERS_IX_52_DSI O_IX_4
TPCC.ORDERS_IX_53_DSI O_IX_5
TPCC.ORDERS_IX_54_DSI O_IX_6
TPCC.ORDERS_IX_55_DSI O_IX_1
TPCC.ORDERS_IX_56_DSI O_IX_2
TPCC.ORDERS_IX_57_DSI O_IX_3
TPCC.ORDERS_IX_58_DSI O_IX_4
TPCC.ORDERS_IX_59_DSI O_IX_5
TPCC.ORDERS_IX_60_DSI O_IX_6
TPCC.ORDERS_IX_61_DSI O_IX_1
TPCC.ORDERS_IX_62_DSI O_IX_2
TPCC.ORDERS_IX_63_DSI O_IX_3
TPCC.ORDERS_IX_64_DSI O_IX_4
TPCC.ORDERS_IX_65_DSI O_IX_5
TPCC.ORDERS_IX_66_DSI O_IX_6
TPCC.ORDERS_IX_67_DSI O_IX_1
TPCC.ORDERS_IX_68_DSI O_IX_2
TPCC.ORDERS_IX_69_DSI O_IX_3
TPCC.ORDERS_IX_70_DSI O_IX_4
TPCC.ORDERS_IX_71_DSI O_IX_5
TPCC.ORDERS_IX_72_DSI O_IX_6
TPCC.ORDERS_IX_73_DSI O_IX_1
TPCC.ORDERS_IX_74_DSI O_IX_2
TPCC.ORDERS_IX_75_DSI O_IX_3
TPCC.ORDERS_IX_76_DSI O_IX_4
TPCC.ORDERS_IX_77_DSI O_IX_5
TPCC.ORDERS_IX_78_DSI O_IX_6
TPCC.ORDERS_IX_79_DSI O_IX_1
TPCC.ORDERS_IX_80_DSI O_IX_2
TPCC.ORDERS_IX_81_DSI O_IX_3
TPCC.ORDERS_IX_82_DSI O_IX_4
TPCC.ORDERS_IX_83_DSI O_IX_5
TPCC.ORDERS_IX_84_DSI O_IX_6
TPCC.ORDERS_IX_85_DSI O_IX_1
TPCC.ORDERS_IX_86_DSI O_IX_2
TPCC.ORDERS_IX_87_DSI O_IX_3
TPCC.ORDERS_IX_88_DSI O_IX_4
TPCC.ORDERS_IX_89_DSI O_IX_5
TPCC.ORDERS_IX_90_DSI O_IX_6
TPCC.ORDERS_IX_91_DSI O_IX_1
TPCC.ORDERS_IX_92_DSI O_IX_2
TPCC.ORDERS_IX_93_DSI O_IX_3
TPCC.ORDERS_IX_94_DSI O_IX_4
TPCC.ORDERS_IX_95_DSI O_IX_5

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TPCC.ORDERS_IX_96_DSI O_IX_6
TPCC.ORDERS_IX_97_DSI O_IX_1
TPCC.ORDERS_IX_98_DSI O_IX_2
TPCC.ORDERS_IX_99_DSI O_IX_3
TPCC.ORDERS_IX_100_DSI O_IX_4
TPCC.ORDERS_IX_101_DSI O_IX_5
TPCC.ORDERS_IX_102_DSI O_IX_6
TPCC.ORDERS_IX_103_DSI O_IX_1
TPCC.ORDERS_IX_104_DSI O_IX_2
TPCC.ORDERS_IX_105_DSI O_IX_3
TPCC.ORDERS_IX_106_DSI O_IX_4
TPCC.ORDERS_IX_107_DSI O_IX_5
TPCC.ORDERS_IX_108_DSI O_IX_6
TPCC.ORDERS_IX_109_DSI O_IX_1
TPCC.ORDERS_IX_110_DSI O_IX_2
TPCC.ORDERS_IX_111_DSI O_IX_3
TPCC.ORDERS_IX_112_DSI O_IX_4
TPCC.ORDERS_IX_113_DSI O_IX_5
TPCC.ORDERS_IX_114_DSI O_IX_6
TPCC.ORDERS_IX_115_DSI O_IX_1
TPCC.ORDERS_IX_116_DSI O_IX_2
TPCC.ORDERS_IX_117_DSI O_IX_3
TPCC.ORDERS_IX_118_DSI O_IX_4
TPCC.ORDERS_IX_119_DSI O_IX_5
TPCC.ORDERS_IX_120_DSI O_IX_6
TPCC.ORDERS_IX_121_DSI O_IX_1
TPCC.ORDERS_IX_122_DSI O_IX_2
TPCC.ORDERS_IX_123_DSI O_IX_3
TPCC.ORDERS_IX_124_DSI O_IX_4
TPCC.ORDERS_IX_125_DSI O_IX_5
TPCC.ORDERS_IX_126_DSI O_IX_6
TPCC.ORDERS_IX_127_DSI O_IX_1
TPCC.ORDERS_IX_128_DSI O_IX_2
TPCC.ORDERS_IX_129_DSI O_IX_3
TPCC.ORDERS_IX_130_DSI O_IX_4
TPCC.ORDERS_IX_131_DSI O_IX_5
TPCC.ORDERS_IX_132_DSI O_IX_6
TPCC.ORDERS_IX_133_DSI O_IX_1
TPCC.ORDERS_IX_134_DSI O_IX_2
TPCC.ORDERS_IX_135_DSI O_IX_3
TPCC.ORDERS_IX_136_DSI O_IX_4
TPCC.ORDERS_IX_137_DSI O_IX_5
TPCC.ORDERS_IX_138_DSI O_IX_6
TPCC.ORDERS_IX_139_DSI O_IX_1
TPCC.ORDERS_IX_140_DSI O_IX_2
TPCC.ORDERS_IX_141_DSI O_IX_3
TPCC.ORDERS_IX_142_DSI O_IX_4
TPCC.ORDERS_IX_143_DSI O_IX_5
TPCC.ORDERS_IX_144_DSI O_IX_6
TPCC.ORDERS_IX_145_DSI O_IX_1
TPCC.ORDERS_IX_146_DSI O_IX_2
TPCC.ORDERS_IX_147_DSI O_IX_3
TPCC.ORDERS_IX_148_DSI O_IX_4
TPCC.ORDERS_IX_149_DSI O_IX_5
TPCC.ORDERS_IX_150_DSI O_IX_6
TPCC.ORDERS_IX_151_DSI O_IX_1
TPCC.ORDERS_IX_152_DSI O_IX_2
TPCC.ORDERS_IX_153_DSI O_IX_3
TPCC.ORDERS_IX_154_DSI O_IX_4
TPCC.ORDERS_IX_155_DSI O_IX_5
TPCC.ORDERS_IX_156_DSI O_IX_6
TPCC.ORDERS_IX_157_DSI O_IX_1
TPCC.ORDERS_IX_158_DSI O_IX_2
#TPCC.ORDERS_IX_159_DSI O_IX_3
#TPCC.ORDERS_IX_160_DSI O_IX_4
#TPCC.ORDERS_IX_161_DSI O_IX_5
#TPCC.ORDERS_IX_162_DSI O_IX_6

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## ORDERLIN_DSI buffer
TPCC.ORDERLIN_1_DSI      OL_1
TPCC.ORDERLIN_2_DSI      OL_2
TPCC.ORDERLIN_3_DSI      OL_3
TPCC.ORDERLIN_4_DSI      OL_4
TPCC.ORDERLIN_5_DSI      OL_5
TPCC.ORDERLIN_6_DSI      OL_6
TPCC.ORDERLIN_7_DSI      OL_1
TPCC.ORDERLIN_8_DSI      OL_2
TPCC.ORDERLIN_9_DSI      OL_3
TPCC.ORDERLIN_10_DSI     OL_4
TPCC.ORDERLIN_11_DSI     OL_5
TPCC.ORDERLIN_12_DSI     OL_6
TPCC.ORDERLIN_13_DSI     OL_1
TPCC.ORDERLIN_14_DSI     OL_2
TPCC.ORDERLIN_15_DSI     OL_3
TPCC.ORDERLIN_16_DSI     OL_4
TPCC.ORDERLIN_17_DSI     OL_5
TPCC.ORDERLIN_18_DSI     OL_6
TPCC.ORDERLIN_19_DSI     OL_1
TPCC.ORDERLIN_20_DSI     OL_2
TPCC.ORDERLIN_21_DSI     OL_3
TPCC.ORDERLIN_22_DSI     OL_4
TPCC.ORDERLIN_23_DSI     OL_5
TPCC.ORDERLIN_24_DSI     OL_6
TPCC.ORDERLIN_25_DSI     OL_1
TPCC.ORDERLIN_26_DSI     OL_2
TPCC.ORDERLIN_27_DSI     OL_3
TPCC.ORDERLIN_28_DSI     OL_4
TPCC.ORDERLIN_29_DSI     OL_5
TPCC.ORDERLIN_30_DSI     OL_6
TPCC.ORDERLIN_31_DSI     OL_1
TPCC.ORDERLIN_32_DSI     OL_2
TPCC.ORDERLIN_33_DSI     OL_3
TPCC.ORDERLIN_34_DSI     OL_4
TPCC.ORDERLIN_35_DSI     OL_5
TPCC.ORDERLIN_36_DSI     OL_6
TPCC.ORDERLIN_37_DSI     OL_1
TPCC.ORDERLIN_38_DSI     OL_2
TPCC.ORDERLIN_39_DSI     OL_3
TPCC.ORDERLIN_40_DSI     OL_4
TPCC.ORDERLIN_41_DSI     OL_5
TPCC.ORDERLIN_42_DSI     OL_6
TPCC.ORDERLIN_43_DSI     OL_1
TPCC.ORDERLIN_44_DSI     OL_2
TPCC.ORDERLIN_45_DSI     OL_3
TPCC.ORDERLIN_46_DSI     OL_4
TPCC.ORDERLIN_47_DSI     OL_5
TPCC.ORDERLIN_48_DSI     OL_6
TPCC.ORDERLIN_49_DSI     OL_1
TPCC.ORDERLIN_50_DSI     OL_2
TPCC.ORDERLIN_51_DSI     OL_3
TPCC.ORDERLIN_52_DSI     OL_4
TPCC.ORDERLIN_53_DSI     OL_5
TPCC.ORDERLIN_54_DSI     OL_6
TPCC.ORDERLIN_55_DSI     OL_1
TPCC.ORDERLIN_56_DSI     OL_2
TPCC.ORDERLIN_57_DSI     OL_3
TPCC.ORDERLIN_58_DSI     OL_4
TPCC.ORDERLIN_59_DSI     OL_5
TPCC.ORDERLIN_60_DSI     OL_6
TPCC.ORDERLIN_61_DSI     OL_1
TPCC.ORDERLIN_62_DSI     OL_2
TPCC.ORDERLIN_63_DSI     OL_3
TPCC.ORDERLIN_64_DSI     OL_4
TPCC.ORDERLIN_65_DSI     OL_5
TPCC.ORDERLIN_66_DSI     OL_6
TPCC.ORDERLIN_67_DSI     OL_1

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TPCC.ORDERLIN_68_DSI     OL_2
TPCC.ORDERLIN_69_DSI     OL_3
TPCC.ORDERLIN_70_DSI     OL_4
TPCC.ORDERLIN_71_DSI     OL_5
TPCC.ORDERLIN_72_DSI     OL_6
TPCC.ORDERLIN_73_DSI     OL_1
TPCC.ORDERLIN_74_DSI     OL_2
TPCC.ORDERLIN_75_DSI     OL_3
TPCC.ORDERLIN_76_DSI     OL_4
TPCC.ORDERLIN_77_DSI     OL_5
TPCC.ORDERLIN_78_DSI     OL_6
TPCC.ORDERLIN_79_DSI     OL_1
TPCC.ORDERLIN_80_DSI     OL_2
TPCC.ORDERLIN_81_DSI     OL_3
TPCC.ORDERLIN_82_DSI     OL_4
TPCC.ORDERLIN_83_DSI     OL_5
TPCC.ORDERLIN_84_DSI     OL_6
TPCC.ORDERLIN_85_DSI     OL_1
TPCC.ORDERLIN_86_DSI     OL_2
TPCC.ORDERLIN_87_DSI     OL_3
TPCC.ORDERLIN_88_DSI     OL_4
TPCC.ORDERLIN_89_DSI     OL_5
TPCC.ORDERLIN_90_DSI     OL_6
TPCC.ORDERLIN_91_DSI     OL_1
TPCC.ORDERLIN_92_DSI     OL_2
TPCC.ORDERLIN_93_DSI     OL_3
TPCC.ORDERLIN_94_DSI     OL_4
TPCC.ORDERLIN_95_DSI     OL_5
TPCC.ORDERLIN_96_DSI     OL_6
TPCC.ORDERLIN_97_DSI     OL_1
TPCC.ORDERLIN_98_DSI     OL_2
TPCC.ORDERLIN_99_DSI     OL_3
TPCC.ORDERLIN_100_DSI    OL_4
TPCC.ORDERLIN_101_DSI    OL_5
TPCC.ORDERLIN_102_DSI    OL_6
TPCC.ORDERLIN_103_DSI    OL_1
TPCC.ORDERLIN_104_DSI    OL_2
TPCC.ORDERLIN_105_DSI    OL_3
TPCC.ORDERLIN_106_DSI    OL_4
TPCC.ORDERLIN_107_DSI    OL_5
TPCC.ORDERLIN_108_DSI    OL_6
TPCC.ORDERLIN_109_DSI    OL_1
TPCC.ORDERLIN_110_DSI    OL_2
TPCC.ORDERLIN_111_DSI    OL_3
TPCC.ORDERLIN_112_DSI    OL_4
TPCC.ORDERLIN_113_DSI    OL_5
TPCC.ORDERLIN_114_DSI    OL_6
TPCC.ORDERLIN_115_DSI    OL_1
TPCC.ORDERLIN_116_DSI    OL_2
TPCC.ORDERLIN_117_DSI    OL_3
TPCC.ORDERLIN_118_DSI    OL_4
TPCC.ORDERLIN_119_DSI    OL_5
TPCC.ORDERLIN_120_DSI    OL_6
TPCC.ORDERLIN_121_DSI    OL_1
TPCC.ORDERLIN_122_DSI    OL_2
TPCC.ORDERLIN_123_DSI    OL_3
TPCC.ORDERLIN_124_DSI    OL_4
TPCC.ORDERLIN_125_DSI    OL_5
TPCC.ORDERLIN_126_DSI    OL_6
TPCC.ORDERLIN_127_DSI    OL_1
TPCC.ORDERLIN_128_DSI    OL_2
TPCC.ORDERLIN_129_DSI    OL_3
TPCC.ORDERLIN_130_DSI    OL_4
TPCC.ORDERLIN_131_DSI    OL_5
TPCC.ORDERLIN_132_DSI    OL_6
TPCC.ORDERLIN_133_DSI    OL_1
TPCC.ORDERLIN_134_DSI    OL_2
TPCC.ORDERLIN_135_DSI    OL_3

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TPCC.ORDERLIN_136_DSI    OL_4
TPCC.ORDERLIN_137_DSI    OL_5
TPCC.ORDERLIN_138_DSI    OL_6
TPCC.ORDERLIN_139_DSI    OL_1
TPCC.ORDERLIN_140_DSI    OL_2
TPCC.ORDERLIN_141_DSI    OL_3
TPCC.ORDERLIN_142_DSI    OL_4
TPCC.ORDERLIN_143_DSI    OL_5
TPCC.ORDERLIN_144_DSI    OL_6
TPCC.ORDERLIN_145_DSI    OL_1
TPCC.ORDERLIN_146_DSI    OL_2
TPCC.ORDERLIN_147_DSI    OL_3
TPCC.ORDERLIN_148_DSI    OL_4
TPCC.ORDERLIN_149_DSI    OL_5
TPCC.ORDERLIN_150_DSI    OL_6
TPCC.ORDERLIN_151_DSI    OL_1
TPCC.ORDERLIN_152_DSI    OL_2
TPCC.ORDERLIN_153_DSI    OL_3
TPCC.ORDERLIN_154_DSI    OL_4
TPCC.ORDERLIN_155_DSI    OL_5
TPCC.ORDERLIN_156_DSI    OL_6
TPCC.ORDERLIN_157_DSI    OL_1
TPCC.ORDERLIN_158_DSI    OL_2
#TPCC.ORDERLIN_159_DSI    OL_3
#TPCC.ORDERLIN_160_DSI    OL_4
#TPCC.ORDERLIN_161_DSI    OL_5
#TPCC.ORDERLIN_162_DSI    OL_6

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## NEWORDER_DSI buffer
TPCC.NEWORDER_1_DSI      NO_1
TPCC.NEWORDER_2_DSI      NO_2
TPCC.NEWORDER_3_DSI      NO_3
TPCC.NEWORDER_4_DSI      NO_4
TPCC.NEWORDER_5_DSI      NO_5
TPCC.NEWORDER_6_DSI      NO_6
TPCC.NEWORDER_7_DSI      NO_1
TPCC.NEWORDER_8_DSI      NO_2
TPCC.NEWORDER_9_DSI      NO_3
TPCC.NEWORDER_10_DSI     NO_4
TPCC.NEWORDER_11_DSI     NO_5
TPCC.NEWORDER_12_DSI     NO_6
TPCC.NEWORDER_13_DSI     NO_1
TPCC.NEWORDER_14_DSI     NO_2
TPCC.NEWORDER_15_DSI     NO_3
TPCC.NEWORDER_16_DSI     NO_4
TPCC.NEWORDER_17_DSI     NO_5
TPCC.NEWORDER_18_DSI     NO_6
TPCC.NEWORDER_19_DSI     NO_1
TPCC.NEWORDER_20_DSI     NO_2
TPCC.NEWORDER_21_DSI     NO_3
TPCC.NEWORDER_22_DSI     NO_4
TPCC.NEWORDER_23_DSI     NO_5
TPCC.NEWORDER_24_DSI     NO_6
TPCC.NEWORDER_25_DSI     NO_1
TPCC.NEWORDER_26_DSI     NO_2
TPCC.NEWORDER_27_DSI     NO_3
TPCC.NEWORDER_28_DSI     NO_4
TPCC.NEWORDER_29_DSI     NO_5
TPCC.NEWORDER_30_DSI     NO_6
TPCC.NEWORDER_31_DSI     NO_1
TPCC.NEWORDER_32_DSI     NO_2
TPCC.NEWORDER_33_DSI     NO_3
TPCC.NEWORDER_34_DSI     NO_4
TPCC.NEWORDER_35_DSI     NO_5
TPCC.NEWORDER_36_DSI     NO_6
TPCC.NEWORDER_37_DSI     NO_1
TPCC.NEWORDER_38_DSI     NO_2

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TPCC.NEWORDER\_39\_DSI NO\_3  
 TPCC.NEWORDER\_40\_DSI NO\_4  
 TPCC.NEWORDER\_41\_DSI NO\_5  
 TPCC.NEWORDER\_42\_DSI NO\_6  
 TPCC.NEWORDER\_43\_DSI NO\_1  
 TPCC.NEWORDER\_44\_DSI NO\_2  
 TPCC.NEWORDER\_45\_DSI NO\_3  
 TPCC.NEWORDER\_46\_DSI NO\_4  
 TPCC.NEWORDER\_47\_DSI NO\_5  
 TPCC.NEWORDER\_48\_DSI NO\_6  
 TPCC.NEWORDER\_49\_DSI NO\_1  
 TPCC.NEWORDER\_50\_DSI NO\_2  
 TPCC.NEWORDER\_51\_DSI NO\_3  
 TPCC.NEWORDER\_52\_DSI NO\_4  
 TPCC.NEWORDER\_53\_DSI NO\_5  
 TPCC.NEWORDER\_54\_DSI NO\_6  
 TPCC.NEWORDER\_55\_DSI NO\_1  
 TPCC.NEWORDER\_56\_DSI NO\_2  
 TPCC.NEWORDER\_57\_DSI NO\_3  
 TPCC.NEWORDER\_58\_DSI NO\_4  
 TPCC.NEWORDER\_59\_DSI NO\_5  
 TPCC.NEWORDER\_60\_DSI NO\_6  
 TPCC.NEWORDER\_61\_DSI NO\_1  
 TPCC.NEWORDER\_62\_DSI NO\_2  
 TPCC.NEWORDER\_63\_DSI NO\_3  
 TPCC.NEWORDER\_64\_DSI NO\_4  
 TPCC.NEWORDER\_65\_DSI NO\_5  
 TPCC.NEWORDER\_66\_DSI NO\_6  
 TPCC.NEWORDER\_67\_DSI NO\_1  
 TPCC.NEWORDER\_68\_DSI NO\_2  
 TPCC.NEWORDER\_69\_DSI NO\_3  
 TPCC.NEWORDER\_70\_DSI NO\_4  
 TPCC.NEWORDER\_71\_DSI NO\_5  
 TPCC.NEWORDER\_72\_DSI NO\_6  
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 TPCC.NEWORDER\_74\_DSI NO\_2  
 TPCC.NEWORDER\_75\_DSI NO\_3  
 TPCC.NEWORDER\_76\_DSI NO\_4  
 TPCC.NEWORDER\_77\_DSI NO\_5  
 TPCC.NEWORDER\_78\_DSI NO\_6  
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 TPCC.NEWORDER\_89\_DSI NO\_5  
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 TPCC.NEWORDER\_100\_DSI NO\_4  
 TPCC.NEWORDER\_101\_DSI NO\_5  
 TPCC.NEWORDER\_102\_DSI NO\_6  
 TPCC.NEWORDER\_103\_DSI NO\_1  
 TPCC.NEWORDER\_104\_DSI NO\_2  
 TPCC.NEWORDER\_105\_DSI NO\_3  
 TPCC.NEWORDER\_106\_DSI NO\_4

TPCC.NEWORDER\_107\_DSI NO\_5  
 TPCC.NEWORDER\_108\_DSI NO\_6  
 TPCC.NEWORDER\_109\_DSI NO\_1  
 TPCC.NEWORDER\_110\_DSI NO\_2  
 TPCC.NEWORDER\_111\_DSI NO\_3  
 TPCC.NEWORDER\_112\_DSI NO\_4  
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 TPCC.NEWORDER\_136\_DSI NO\_4  
 TPCC.NEWORDER\_137\_DSI NO\_5  
 TPCC.NEWORDER\_138\_DSI NO\_6  
 TPCC.NEWORDER\_139\_DSI NO\_1  
 TPCC.NEWORDER\_140\_DSI NO\_2  
 TPCC.NEWORDER\_141\_DSI NO\_3  
 TPCC.NEWORDER\_142\_DSI NO\_4  
 TPCC.NEWORDER\_143\_DSI NO\_5  
 TPCC.NEWORDER\_144\_DSI NO\_6  
 TPCC.NEWORDER\_145\_DSI NO\_1  
 TPCC.NEWORDER\_146\_DSI NO\_2  
 TPCC.NEWORDER\_147\_DSI NO\_3  
 TPCC.NEWORDER\_148\_DSI NO\_4  
 TPCC.NEWORDER\_149\_DSI NO\_5  
 TPCC.NEWORDER\_150\_DSI NO\_6  
 TPCC.NEWORDER\_151\_DSI NO\_1  
 TPCC.NEWORDER\_152\_DSI NO\_2  
 TPCC.NEWORDER\_153\_DSI NO\_3  
 TPCC.NEWORDER\_154\_DSI NO\_4  
 TPCC.NEWORDER\_155\_DSI NO\_5  
 TPCC.NEWORDER\_156\_DSI NO\_6  
 TPCC.NEWORDER\_157\_DSI NO\_1  
 TPCC.NEWORDER\_158\_DSI NO\_2  
 #TPCC.NEWORDER\_159\_DSI NO\_3  
 #TPCC.NEWORDER\_160\_DSI NO\_4  
 #TPCC.NEWORDER\_161\_DSI NO\_5  
 #TPCC.NEWORDER\_162\_DSI NO\_6  
  
 ## NEWORDER\_IX\_DSI buffer  
 TPCC.NEWORDER\_IX\_1DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_2DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_3DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_4DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_5DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_6DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_7DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_8DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_9DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_10DSI NO\_IX\_4

TPCC.NEWORDER\_IX\_11DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_12DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_13DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_14DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_15DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_16DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_17DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_18DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_19DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_20DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_21DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_22DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_23DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_24DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_25DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_26DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_27DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_28DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_29DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_30DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_31DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_32DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_33DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_34DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_35DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_36DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_37DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_38DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_39DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_40DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_41DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_42DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_43DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_44DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_45DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_46DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_47DSI NO\_IX\_5  
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 TPCC.NEWORDER\_IX\_49DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_50DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_51DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_52DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_53DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_54DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_55DSI NO\_IX\_1  
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 TPCC.NEWORDER\_IX\_57DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_58DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_59DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_60DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_61DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_62DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_63DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_64DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_65DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_66DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_67DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_68DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_69DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_70DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_71DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_72DSI NO\_IX\_6  
 TPCC.NEWORDER\_IX\_73DSI NO\_IX\_1  
 TPCC.NEWORDER\_IX\_74DSI NO\_IX\_2  
 TPCC.NEWORDER\_IX\_75DSI NO\_IX\_3  
 TPCC.NEWORDER\_IX\_76DSI NO\_IX\_4  
 TPCC.NEWORDER\_IX\_77DSI NO\_IX\_5  
 TPCC.NEWORDER\_IX\_78DSI NO\_IX\_6

TPCC.NEWORDER_IX_79DSI	NO_IX_1	TPCC.NEWORDER_IX_147DSI	NO_IX_3	TPCC.HISTORY_51_DSI	H_3
TPCC.NEWORDER_IX_80DSI	NO_IX_2	TPCC.NEWORDER_IX_148DSI	NO_IX_4	TPCC.HISTORY_52_DSI	H_4
TPCC.NEWORDER_IX_81DSI	NO_IX_3	TPCC.NEWORDER_IX_149DSI	NO_IX_5	TPCC.HISTORY_53_DSI	H_5
TPCC.NEWORDER_IX_82DSI	NO_IX_4	TPCC.NEWORDER_IX_150DSI	NO_IX_6	TPCC.HISTORY_54_DSI	H_6
TPCC.NEWORDER_IX_83DSI	NO_IX_5	TPCC.NEWORDER_IX_151DSI	NO_IX_1	TPCC.HISTORY_55_DSI	H_1
TPCC.NEWORDER_IX_84DSI	NO_IX_6	TPCC.NEWORDER_IX_152DSI	NO_IX_2	TPCC.HISTORY_56_DSI	H_2
TPCC.NEWORDER_IX_85DSI	NO_IX_1	TPCC.NEWORDER_IX_153DSI	NO_IX_3	TPCC.HISTORY_57_DSI	H_3
TPCC.NEWORDER_IX_86DSI	NO_IX_2	TPCC.NEWORDER_IX_154DSI	NO_IX_4	TPCC.HISTORY_58_DSI	H_4
TPCC.NEWORDER_IX_87DSI	NO_IX_3	TPCC.NEWORDER_IX_155DSI	NO_IX_5	TPCC.HISTORY_59_DSI	H_5
TPCC.NEWORDER_IX_88DSI	NO_IX_4	TPCC.NEWORDER_IX_156DSI	NO_IX_6	TPCC.HISTORY_60_DSI	H_6
TPCC.NEWORDER_IX_89DSI	NO_IX_5	TPCC.NEWORDER_IX_157DSI	NO_IX_1	TPCC.HISTORY_61_DSI	H_1
TPCC.NEWORDER_IX_90DSI	NO_IX_6	TPCC.NEWORDER_IX_158DSI	NO_IX_2	TPCC.HISTORY_62_DSI	H_2
TPCC.NEWORDER_IX_91DSI	NO_IX_1	#TPCC.NEWORDER_IX_159DSI	NO_IX_3	TPCC.HISTORY_63_DSI	H_3
TPCC.NEWORDER_IX_92DSI	NO_IX_2	#TPCC.NEWORDER_IX_160DSI	NO_IX_4	TPCC.HISTORY_64_DSI	H_4
TPCC.NEWORDER_IX_93DSI	NO_IX_3	#TPCC.NEWORDER_IX_161DSI	NO_IX_5	TPCC.HISTORY_65_DSI	H_5
TPCC.NEWORDER_IX_94DSI	NO_IX_4	#TPCC.NEWORDER_IX_162DSI	NO_IX_6	TPCC.HISTORY_66_DSI	H_6
TPCC.NEWORDER_IX_95DSI	NO_IX_5			TPCC.HISTORY_67_DSI	H_1
TPCC.NEWORDER_IX_96DSI	NO_IX_6	## HISTORY_DSI buffer		TPCC.HISTORY_68_DSI	H_2
TPCC.NEWORDER_IX_97DSI	NO_IX_1	TPCC.HISTORY_1_DSI	H_1	TPCC.HISTORY_69_DSI	H_3
TPCC.NEWORDER_IX_98DSI	NO_IX_2	TPCC.HISTORY_2_DSI	H_2	TPCC.HISTORY_70_DSI	H_4
TPCC.NEWORDER_IX_99DSI	NO_IX_3	TPCC.HISTORY_3_DSI	H_3	TPCC.HISTORY_71_DSI	H_5
TPCC.NEWORDER_IX_100DSI	NO_IX_4	TPCC.HISTORY_4_DSI	H_4	TPCC.HISTORY_72_DSI	H_6
TPCC.NEWORDER_IX_101DSI	NO_IX_5	TPCC.HISTORY_5_DSI	H_5	TPCC.HISTORY_73_DSI	H_1
TPCC.NEWORDER_IX_102DSI	NO_IX_6	TPCC.HISTORY_6_DSI	H_6	TPCC.HISTORY_74_DSI	H_2
TPCC.NEWORDER_IX_103DSI	NO_IX_1	TPCC.HISTORY_7_DSI	H_1	TPCC.HISTORY_75_DSI	H_3
TPCC.NEWORDER_IX_104DSI	NO_IX_2	TPCC.HISTORY_8_DSI	H_2	TPCC.HISTORY_76_DSI	H_4
TPCC.NEWORDER_IX_105DSI	NO_IX_3	TPCC.HISTORY_9_DSI	H_3	TPCC.HISTORY_77_DSI	H_5
TPCC.NEWORDER_IX_106DSI	NO_IX_4	TPCC.HISTORY_10_DSI	H_4	TPCC.HISTORY_78_DSI	H_6
TPCC.NEWORDER_IX_107DSI	NO_IX_5	TPCC.HISTORY_11_DSI	H_5	TPCC.HISTORY_79_DSI	H_1
TPCC.NEWORDER_IX_108DSI	NO_IX_6	TPCC.HISTORY_12_DSI	H_6	TPCC.HISTORY_80_DSI	H_2
TPCC.NEWORDER_IX_109DSI	NO_IX_1	TPCC.HISTORY_13_DSI	H_1	TPCC.HISTORY_81_DSI	H_3
TPCC.NEWORDER_IX_110DSI	NO_IX_2	TPCC.HISTORY_14_DSI	H_2	TPCC.HISTORY_82_DSI	H_4
TPCC.NEWORDER_IX_111DSI	NO_IX_3	TPCC.HISTORY_15_DSI	H_3	TPCC.HISTORY_83_DSI	H_5
TPCC.NEWORDER_IX_112DSI	NO_IX_4	TPCC.HISTORY_16_DSI	H_4	TPCC.HISTORY_84_DSI	H_6
TPCC.NEWORDER_IX_113DSI	NO_IX_5	TPCC.HISTORY_17_DSI	H_5	TPCC.HISTORY_85_DSI	H_1
TPCC.NEWORDER_IX_114DSI	NO_IX_6	TPCC.HISTORY_18_DSI	H_6	TPCC.HISTORY_86_DSI	H_2
TPCC.NEWORDER_IX_115DSI	NO_IX_1	TPCC.HISTORY_19_DSI	H_1	TPCC.HISTORY_87_DSI	H_3
TPCC.NEWORDER_IX_116DSI	NO_IX_2	TPCC.HISTORY_20_DSI	H_2	TPCC.HISTORY_88_DSI	H_4
TPCC.NEWORDER_IX_117DSI	NO_IX_3	TPCC.HISTORY_21_DSI	H_3	TPCC.HISTORY_89_DSI	H_5
TPCC.NEWORDER_IX_118DSI	NO_IX_4	TPCC.HISTORY_22_DSI	H_4	TPCC.HISTORY_90_DSI	H_6
TPCC.NEWORDER_IX_119DSI	NO_IX_5	TPCC.HISTORY_23_DSI	H_5	TPCC.HISTORY_91_DSI	H_1
TPCC.NEWORDER_IX_120DSI	NO_IX_6	TPCC.HISTORY_24_DSI	H_6	TPCC.HISTORY_92_DSI	H_2
TPCC.NEWORDER_IX_121DSI	NO_IX_1	TPCC.HISTORY_25_DSI	H_1	TPCC.HISTORY_93_DSI	H_3
TPCC.NEWORDER_IX_122DSI	NO_IX_2	TPCC.HISTORY_26_DSI	H_2	TPCC.HISTORY_94_DSI	H_4
TPCC.NEWORDER_IX_123DSI	NO_IX_3	TPCC.HISTORY_27_DSI	H_3	TPCC.HISTORY_95_DSI	H_5
TPCC.NEWORDER_IX_124DSI	NO_IX_4	TPCC.HISTORY_28_DSI	H_4	TPCC.HISTORY_96_DSI	H_6
TPCC.NEWORDER_IX_125DSI	NO_IX_5	TPCC.HISTORY_29_DSI	H_5	TPCC.HISTORY_97_DSI	H_1
TPCC.NEWORDER_IX_126DSI	NO_IX_6	TPCC.HISTORY_30_DSI	H_6	TPCC.HISTORY_98_DSI	H_2
TPCC.NEWORDER_IX_127DSI	NO_IX_1	TPCC.HISTORY_31_DSI	H_1	TPCC.HISTORY_99_DSI	H_3
TPCC.NEWORDER_IX_128DSI	NO_IX_2	TPCC.HISTORY_32_DSI	H_2	TPCC.HISTORY_100_DSI	H_4
TPCC.NEWORDER_IX_129DSI	NO_IX_3	TPCC.HISTORY_33_DSI	H_3	TPCC.HISTORY_101_DSI	H_5
TPCC.NEWORDER_IX_130DSI	NO_IX_4	TPCC.HISTORY_34_DSI	H_4	TPCC.HISTORY_102_DSI	H_6
TPCC.NEWORDER_IX_131DSI	NO_IX_5	TPCC.HISTORY_35_DSI	H_5	TPCC.HISTORY_103_DSI	H_1
TPCC.NEWORDER_IX_132DSI	NO_IX_6	TPCC.HISTORY_36_DSI	H_6	TPCC.HISTORY_104_DSI	H_2
TPCC.NEWORDER_IX_133DSI	NO_IX_1	TPCC.HISTORY_37_DSI	H_1	TPCC.HISTORY_105_DSI	H_3
TPCC.NEWORDER_IX_134DSI	NO_IX_2	TPCC.HISTORY_38_DSI	H_2	TPCC.HISTORY_106_DSI	H_4
TPCC.NEWORDER_IX_135DSI	NO_IX_3	TPCC.HISTORY_39_DSI	H_3	TPCC.HISTORY_107_DSI	H_5
TPCC.NEWORDER_IX_136DSI	NO_IX_4	TPCC.HISTORY_40_DSI	H_4	TPCC.HISTORY_108_DSI	H_6
TPCC.NEWORDER_IX_137DSI	NO_IX_5	TPCC.HISTORY_41_DSI	H_5	TPCC.HISTORY_109_DSI	H_1
TPCC.NEWORDER_IX_138DSI	NO_IX_6	TPCC.HISTORY_42_DSI	H_6	TPCC.HISTORY_110_DSI	H_2
TPCC.NEWORDER_IX_139DSI	NO_IX_1	TPCC.HISTORY_43_DSI	H_1	TPCC.HISTORY_111_DSI	H_3
TPCC.NEWORDER_IX_140DSI	NO_IX_2	TPCC.HISTORY_44_DSI	H_2	TPCC.HISTORY_112_DSI	H_4
TPCC.NEWORDER_IX_141DSI	NO_IX_3	TPCC.HISTORY_45_DSI	H_3	TPCC.HISTORY_113_DSI	H_5
TPCC.NEWORDER_IX_142DSI	NO_IX_4	TPCC.HISTORY_46_DSI	H_4	TPCC.HISTORY_114_DSI	H_6
TPCC.NEWORDER_IX_143DSI	NO_IX_5	TPCC.HISTORY_47_DSI	H_5	TPCC.HISTORY_115_DSI	H_1
TPCC.NEWORDER_IX_144DSI	NO_IX_6	TPCC.HISTORY_48_DSI	H_6	TPCC.HISTORY_116_DSI	H_2
TPCC.NEWORDER_IX_145DSI	NO_IX_1	TPCC.HISTORY_49_DSI	H_1	TPCC.HISTORY_117_DSI	H_3
TPCC.NEWORDER_IX_146DSI	NO_IX_2	TPCC.HISTORY_50_DSI	H_2	TPCC.HISTORY_118_DSI	H_4



```

TPCC.HISTORY_119_DSI H_5
TPCC.HISTORY_120_DSI H_6
TPCC.HISTORY_121_DSI H_1
TPCC.HISTORY_122_DSI H_2
TPCC.HISTORY_123_DSI H_3
TPCC.HISTORY_124_DSI H_4
TPCC.HISTORY_125_DSI H_5
TPCC.HISTORY_126_DSI H_6
TPCC.HISTORY_127_DSI H_1
TPCC.HISTORY_128_DSI H_2
TPCC.HISTORY_129_DSI H_3
TPCC.HISTORY_130_DSI H_4
TPCC.HISTORY_131_DSI H_5
TPCC.HISTORY_132_DSI H_6
TPCC.HISTORY_133_DSI H_1
TPCC.HISTORY_134_DSI H_2
TPCC.HISTORY_135_DSI H_3
TPCC.HISTORY_136_DSI H_4
TPCC.HISTORY_137_DSI H_5
TPCC.HISTORY_138_DSI H_6
TPCC.HISTORY_139_DSI H_1
TPCC.HISTORY_140_DSI H_2
TPCC.HISTORY_141_DSI H_3
TPCC.HISTORY_142_DSI H_4
TPCC.HISTORY_143_DSI H_5
TPCC.HISTORY_144_DSI H_6
TPCC.HISTORY_145_DSI H_1
TPCC.HISTORY_146_DSI H_2
TPCC.HISTORY_147_DSI H_3
TPCC.HISTORY_148_DSI H_4
TPCC.HISTORY_149_DSI H_5
TPCC.HISTORY_150_DSI H_6
TPCC.HISTORY_151_DSI H_1
TPCC.HISTORY_152_DSI H_2
TPCC.HISTORY_153_DSI H_3
TPCC.HISTORY_154_DSI H_4
TPCC.HISTORY_155_DSI H_5
TPCC.HISTORY_156_DSI H_6
TPCC.HISTORY_157_DSI H_1
TPCC.HISTORY_158_DSI H_2
#TPCC.HISTORY_159_DSI H_3
#TPCC.HISTORY_160_DSI H_4
#TPCC.HISTORY_161_DSI H_5
#TPCC.HISTORY_162_DSI H_6

```

```

## STOCK_DSI buffer
TPCC.STOCK_1_DSI S_1
TPCC.STOCK_2_DSI S_2
TPCC.STOCK_3_DSI S_3
TPCC.STOCK_4_DSI S_4
TPCC.STOCK_5_DSI S_5
TPCC.STOCK_6_DSI S_6
TPCC.STOCK_7_DSI S_1
TPCC.STOCK_8_DSI S_2
TPCC.STOCK_9_DSI S_3
TPCC.STOCK_10_DSI S_4
TPCC.STOCK_11_DSI S_5
TPCC.STOCK_12_DSI S_6
TPCC.STOCK_13_DSI S_1
TPCC.STOCK_14_DSI S_2
TPCC.STOCK_15_DSI S_3
TPCC.STOCK_16_DSI S_4
TPCC.STOCK_17_DSI S_5
TPCC.STOCK_18_DSI S_6
TPCC.STOCK_19_DSI S_1
TPCC.STOCK_20_DSI S_2
TPCC.STOCK_21_DSI S_3
TPCC.STOCK_22_DSI S_4

```

```

TPCC.STOCK_23_DSI S_5
TPCC.STOCK_24_DSI S_6
TPCC.STOCK_25_DSI S_1
TPCC.STOCK_26_DSI S_2
TPCC.STOCK_27_DSI S_3
TPCC.STOCK_28_DSI S_4
TPCC.STOCK_29_DSI S_5
TPCC.STOCK_30_DSI S_6
TPCC.STOCK_31_DSI S_1
TPCC.STOCK_32_DSI S_2
TPCC.STOCK_33_DSI S_3
TPCC.STOCK_34_DSI S_4
TPCC.STOCK_35_DSI S_5
TPCC.STOCK_36_DSI S_6
TPCC.STOCK_37_DSI S_1
TPCC.STOCK_38_DSI S_2
TPCC.STOCK_39_DSI S_3
TPCC.STOCK_40_DSI S_4
TPCC.STOCK_41_DSI S_5
TPCC.STOCK_42_DSI S_6
TPCC.STOCK_43_DSI S_1
TPCC.STOCK_44_DSI S_2
TPCC.STOCK_45_DSI S_3
TPCC.STOCK_46_DSI S_4
TPCC.STOCK_47_DSI S_5
TPCC.STOCK_48_DSI S_6
TPCC.STOCK_49_DSI S_1
TPCC.STOCK_50_DSI S_2
TPCC.STOCK_51_DSI S_3
TPCC.STOCK_52_DSI S_4
TPCC.STOCK_53_DSI S_5
TPCC.STOCK_54_DSI S_6

```

```

## ITEM_DSI buffer
TPCC.ITEM_1_DSI I_1

```

**File: crbuf.oza pgsr.bat**

```

@rem #####
@rem ## rdbcrbf 98.08.08 K.Sugiyama ##
@rem ## -> 1458WH 98.09.01 K.Sugiyama ##
@rem #####

```

echo off

```

@rem 980823
set A=32250
set S=32000
set X=34000

```

```

@rem 980901 oza
set A=32150
set S=32000
set X=34000

```

```

@rem rdbcrbf -A %A% -S %S% -x -l 1 -m 3 S_1
2K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 3 S_1 4K
%X% > crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 3 S_2 4K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 3 S_3 4K
%X% >> crbuf.tmp.log 2>&1

```

```

rdbcrbf -A %A% -S %S% -x -l 1 -m 3 S_4 4K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 3 S_5 4K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 3 S_6 4K
%X% >> crbuf.tmp.log 2>&1

```

```

@rem for 1458WH
set A=2100
set S=1995
set X=2250

```

```

@rem rdbcrbf -A %A% -S %S% -x -l 1 -m
2147483646 OL_1 32K %X% >>
crbuf.tmp.log 2>&1
@rem rdbcrbf -A %A% -S %S% -x -l 1 -m
2147483646 OL_2 32K %X% >>
crbuf.tmp.log 2>&1
@rem rdbcrbf -A %A% -S %S% -x -l 1 -m
2147483646 OL_3 32K %X% >>
crbuf.tmp.log 2>&1
@rem rdbcrbf -A %A% -S %S% -x -l 1 -m
2147483646 OL_4 32K %X% >>
crbuf.tmp.log 2>&1
@rem rdbcrbf -A %A% -S %S% -x -l 1 -m
2147483646 OL_5 32K %X% >>
crbuf.tmp.log 2>&1
@rem rdbcrbf -A %A% -S %S% -x -l 1 -m
2147483646 OL_6 32K %X% >>
crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 OL_1
32K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 OL_2
32K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 OL_3
32K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 OL_4
32K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 OL_5
32K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 OL_6
32K %X% >> crbuf.tmp.log 2>&1

```

```

@rem 980725
set A=3950
set S=3900
set X=4000

```

```

@rem rdbcrbf -A %A2% -S %S2% -x -l 1 -m
2147483646 NO_IX_1 32K %X2% >>
crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_IX_1
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_IX_2
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_IX_3
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_IX_4
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_IX_5
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_IX_6
8K %X% >> crbuf.tmp.log 2>&1

```

@rem for 1458WH



```
rdbrbf -A %A% -S %S% -x -l 1 -m 2147483646
D_6 1K %X% >> crbuf.tmp.log 2>&1
```

```
@rem for 1458WH
```

```
set A=270
set S=270
set X=270
rdbrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_1 1K %X% >> crbuf.tmp.log 2>&1
rdbrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_2 1K %X% >> crbuf.tmp.log 2>&1
rdbrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_3 1K %X% >> crbuf.tmp.log 2>&1
rdbrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_4 1K %X% >> crbuf.tmp.log 2>&1
rdbrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_5 1K %X% >> crbuf.tmp.log 2>&1
rdbrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_6 1K %X% >> crbuf.tmp.log 2>&1
```

```
@rem 980610
```

```
set A2=100
set S2=100
set X2=100
rdbrbf -A %A2% -S %S2% -x NO_1 1K
%X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x NO_2 1K
%X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x NO_3 1K
%X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x NO_4 1K
%X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x NO_5 1K
%X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x NO_6 1K
%X2% >> crbuf.tmp.log 2>&1
```

```
@rem 980823
```

```
set A2=1
set S2=1
set X2=1
@rem rdbrbf -A %A2% -S %S2% -x
S_1 1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x S_1
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x S_2
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x S_3
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x S_4
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x S_5
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x S_6
1K %X2% >> crbuf.tmp.log 2>&1
```

```
@rem for 1458WH
```

```
set A2=1
set S2=1
set X2=1
rdbrbf -A %A2% -S %S2% -x C_1 1K
%X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x C_2 1K
%X2% >> crbuf.tmp.log 2>&1
```

```
rdbrbf -A %A2% -S %S2% -x C_3 1K
%X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x C_4 1K
%X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x C_5 1K
%X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x C_6 1K
%X2% >> crbuf.tmp.log 2>&1
```

```
@rem for 1458WH
```

```
set A2=1
set S2=1
set X2=1
rdbrbf -A %A2% -S %S2% -x O_1
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x O_2
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x O_3
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x O_4
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x O_5
1K %X2% >> crbuf.tmp.log 2>&1
rdbrbf -A %A2% -S %S2% -x O_6
1K %X2% >> crbuf.tmp.log 2>&1
```

#### File: getitem.sc

```
#include <windows.h>
#include <stdio.h>
#include <string.h>
#include <memory.h>
#include <sys/types.h>
#include <errno.h>
```

```
#ifndef WIN32
#define DIFFTIME(after,before) ((after[0]-before[0])*1000+(after[1]-before[1])/1000)
```

```
int GetTickCount()
{
    static int time_base[2];
    static init_flag=0;
    int time_fa[2];
    int rtn;

    if (init_flag == 0){
        init_flag = 1;
        gettimeofday(time_base);
        return 0;
    }
    gettimeofday(time_fa);
    rtn = DIFFTIME(time_fa,time_base);
    return rtn;
}
#endif
```

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

```
/* */
EXEC SQL BEGIN DECLARE SECTION;
int i;
int i_c;
int h_is;
```

```
int h_ie;
int data;
int time_before;
int time_after;
char SQLSTATE[6];
char SQLMSG[256];
```

```
EXEC SQL END DECLARE SECTION;
```

```
if( argc != 3){
    h_is = 1;
    h_ie = 20000;
    printf("Hint !: %s START_I_ID
END_I_ID\n",argv[0]);
/* exit(1);
*/
```

```
} else {
    h_is = atoi(argv[1]);
    h_ie = atoi(argv[2]);
}
```

```
memset(SQLSTATE,0x00,6);
memset(SQLMSG,0x00,256);
```

```
/* */
EXEC SQL CONNECT TO 'TPCC';
printf("CONNECT(SQLSTATE) = %s\n",
SQLSTATE);
```

```
EXEC SQL WHENEVER SQLERROR
GOTO :ERR_S_STOL;
```

```
EXEC SQL WHENEVER NOT
FOUND CONTINUE;
```

```
time_before = GetTickCount();
```

```
EXEC SQL SELECT COUNT(L_ID)
INTO :i_c
FROM
TPCC_SCHEMA.ITEM
WHERE L_ID >= :h_is
and L_ID < :h_ie;
```

```
time_after = GetTickCount();
```

```
printf(" = %d, (msec) = %d\n",i_c,
(time_after - time_before));
/* Sleep( 1000 * 20 );*/
exit(1);
```

```
ERR_S_STOL:;
printf("SQLSTATE =
%s\n",SQLSTATE);
printf("SQLMSG = %s\n",SQLMSG);
```

```
EXEC SQL WHENEVER SQLERROR
CONTINUE;
```

```
EXEC SQL WHENEVER NOT
FOUND CONTINUE;
EXEC SQL ROLLBACK WORK;
```

```
/* */
```

```

EXEC SQL WHENEVER SQLERROR
CONTINUE;

EXEC SQL WHENEVER NOT
FOUND CONTINUE;
EXEC SQL DISCONNECT
CURRENT ;
printf("DISCONNECT(SQLSTATE) =
%s\n", SQLSTATE) ;

exit(-1);
}

```

**File: getitem.sc-**

```

#include <windows.h>
#include <stdio.h>
#include <string.h>
#include <memory.h>
#include <sys/types.h>*/
#include <errno.h>

#ifdef WIN32
#define DIFFTIME(after,before) ((after[0]-
before[0])*1000+(after[1]-before[1])/1000)

int GetTickCount()
{
static int time_base[2];
static init_flag=0;
int time_fa[2];
int rtn;

if ( init_flag == 0){
init_flag = 1;
gettimeofday(time_base);
return 0;
}
gettimeofday(time_fa);
rtn = DIFFTIME(time_fa,time_base);
return rtn;
}
#endif

```

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

```

/* */
EXEC SQL BEGIN DECLARE SECTION;
int i;
int i_c;
int h_is;
int h_ie;
int data;
int time_before;
int time_after;
char SQLSTATE[6];
char SQLMSG[256];

EXEC SQL END DECLARE SECTION;

if( argc != 3){
h_is = 1;
h_ie = 200000;
}

```

```

printf("Hint !: %s START_ID
END_ID\n\n",argv[0]);
/* exit(1);
*/
} else {
h_is = atoi(argv[1]);
h_ie = atoi(argv[2]);
}

memset(SQLSTATE,0x00,6);
memset(SQLMSG,0x00,256);

/* */
EXEC SQL CONNECT TO 'TPCC';
printf("CONNECT(SQLSTATE) = %s\n",
SQLSTATE) ;

```

```

EXEC SQL WHENEVER SQLERROR
GOTO :ERR_S_STOL;

```

```

EXEC SQL WHENEVER NOT
FOUND CONTINUE;

```

```

time_before = GetTickCount();

EXEC SQL SELECT COUNT(I_ID)
INTO :i_c
FROM
TPCC_SCHEMA.ITEM
WHERE I_ID >= :h_is
and I_ID < :h_ie ;

time_after = GetTickCount();

printf(" = %d, (msec)= %d\n",i_c,
(time_after - time_before));
/* Sleep( 1000 * 20 );*/
exit(1);

```

```

ERR_S_STOL::
printf("SQLSTATE =
%s\n",SQLSTATE);
printf("SQLMSG = %s\n",SQLMSG);

```

```

EXEC SQL WHENEVER SQLERROR
CONTINUE;

```

```

EXEC SQL WHENEVER NOT
FOUND CONTINUE;
EXEC SQL ROLLBACK WORK;
/* */

```

```

EXEC SQL WHENEVER SQLERROR
CONTINUE;

```

```

EXEC SQL WHENEVER NOT
FOUND CONTINUE;
EXEC SQL DISCONNECT
CURRENT ;
printf("DISCONNECT(SQLSTATE) =
%s\n", SQLSTATE) ;

exit(-1);
}

```

**File: intbind-cpu3.bat**

```

intbind -g

intbind -p 0x52 0x8
intbind -p 0x62 0x8
intbind -p 0x72 0x8
intbind -p 0x82 0x8
intbind -p 0x92 0x8
intbind -p 0xb3 0x8
intbind -p 0x51 0x8
intbind -p 0xb2 0x8
intbind -p 0xa2 0x8
intbind -p 0x61 0x8

```

```
intbind -g
```

**File: Rdbpool**

```

#
# All Rights Reserved, Copyright(c) FUJITSU
1993, 1994, 1995, 1996
# All Rights Reserved, Copyright(c) PFU 1993,
1994, 1995, 1996
#
# :
#
# : '#'
# :
# : 1 1024
#
# << >>
# = , ,
#
#####
#####nrk
# system
# = #
#-----
-----
ARC_ALCT = 0 ,1 ,1024000000 #508
BCM_BPC = 285696 ,4096 ,1024000000
#508
BCM_EEXT = 206131 ,8192 ,1024000000
#1532
BCM_ESUB = 254976 ,1024 ,1024000000 #60
BCM_GPCT = 4096 ,4096 ,1024000000
#508
BCM_IOPROC = 52941 ,4096 ,1024000000
#380
BCM_LOGAREA = 0 ,1 ,1024000000
#1020
BCM_LOGLIST = 0 ,1 ,1024000000 #252
#BCM_PGC = 151552 ,4096 ,1024000000
#1020
BCM_PGC = 170000 ,4096 ,1024000000
#1020
BCM_WKACC = 0 ,1024 ,1024000000 #252
BCM_WKDMON = 0 ,1024 ,1024000000
#252
BCM_WKSPC = 0 ,1024 ,1024000000 #60

```

```

BCM_WKSSPC = 0 ,1024 ,1024000000
#124
#CCR_COMINF = 1662566 ,16384 ,1024000000
#3836(0xefc)
CCR_COMINF = 2000000 ,16384 ,1024000000
#3836(0xefc)
CCR_FGRP = 289792 ,4096 ,1024000000
#252
CCR_IDT = 592896 ,4096 ,1024000000
#912(0x390)
#CCR_KAIOCB = 0 ,1024 ,1024000000 #92
CCR_KAIOCB = 190000 ,1024 ,1024000000
#92
CCR_LWPIDT = 93491 ,4096 ,1024000000
#112(0x70)
#CCR_POLMCTL = 3374694 ,16384 ,1024000000
#4336(0x10+0x50*(42+12))
CCR_POLMCTL = 4000000 ,16384 ,1024000000
#4336(0x10+0x50*(42+12))
CCR_SANQUE = 20480 ,1024 ,1024000000
#64
CCR_USRCON = 7168 ,4096 ,1024000000
#448(0x1c0)
#CCR_USRSTK = 27470643,65544 ,1024000000
#65536
CCR_USRSTK = 32117760,65544 ,1024000000
#65536
#CCR_WLIST = 13517 ,1024 ,1024000000
#28(0x1c)
CCR_WLIST = 16000 ,1024 ,1024000000
#28(0x1c)
#CCR_WPID = 69837 ,1024 ,1024000000
#60
CCR_WPID = 280000 ,1024 ,1024000000
#60
#DSM_DSAH = 378880 ,4096 ,1024000000
#2044
DSM_DSAH = 400000 ,4096 ,1024000000
#2044
DSM_DSAP = 29099008,1024 ,1024000000
#124
DSM_DSIL = 1339392,1024 ,1024000000 #60
DSM_DSVP = 3072 ,1024 ,1024000000 #60
#DSM_DSVQ = 38298 ,1024 ,1024000000
#92
DSM_DSVQ = 47000 ,1024 ,1024000000 #92
DSM_DSWH = 0 ,4096 ,1024000000
#2044
DSM_DSWP = 0 ,1024 ,1024000000 #124
DSM_DUSI = 10240 ,1024 ,1024000000 #60
DSM_DWFL = 0 ,1024 ,1024000000 #60
DSM_DWUI = 0 ,1024 ,1024000000 #60
#LCM_LOGCNTL = 38912 ,4096 ,1024000000
#252
LCM_LOGCNTL = 44000 ,4096 ,1024000000
#252
SCI_CMD = 159744 ,4096 ,1024000000 #508
SCI_CONBF = 4096 ,4096 ,1024000000 #508
#SSV_IINF = 19456 ,1024 ,1024000000 #124
SSV_IINF = 21000 ,1024 ,1024000000 #124
#TCM_TRAN = 38912 ,4096 ,1024000000
#252
TCM_TRAN = 44000 ,4096 ,1024000000
#252
UTY_UNQUE = 0 ,1024 ,1024000000 #172
UTY_UNDB = 0 ,4096 ,1024000000 #508
UTY_UNDSI = 0 ,1024 ,1024000000 #124

```

```

XCM_KHASH = 0 ,4096 ,1024000000
#1036
XCM_KMEM = 0 ,4096 ,1024000000
#2044
XCM_KQUE = 0 ,1024 ,1024000000 #28
XCM_KTERM = 0 ,1024 ,1024000000 #28
#XCM_LOCK = 575590 ,1024 ,1024000000
#60
XCM_LOCK = 720000 ,65000 ,1024000000
#60
XCM_LPHASH = 4121600 ,65000 ,1024000000
#1028
XCM_NLOWN = 5120 ,1024 ,1024000000
#28
XCM_NLQUE = 2048 ,1024 ,1024000000 #60
XCM_NLRSC = 2048 ,1024 ,1024000000
#252
#XCM_OWNER = 19456 ,1024 ,1024000000
#124
XCM_OWNER = 21000 ,1024 ,1024000000
#124
#XCM_QUE = 1927270 ,1024 ,1024000000
#124
XCM_QUE = 2300000 ,65000 ,1024000000
#124
XCM_TTERM = 487424 ,1024 ,1024000000
#44
XCM_WQUE_S = 0 ,1024 ,1024000000 #76
XCM_RSC_S = 0 ,1024 ,1024000000 #60
#-----
# group
# = #
#-----
-----
BCM_DFPOOL_G= 128 ,1024 ,1024000000
#124
BCM_DPCT_G = 64 ,1024 ,1024000000 #60
CCR_GCOMINF = 8192 ,16384 ,1024000000
#3836(0xefc)
XCM_BITMAP_G= 96 ,1024 ,1024000000 #92
XCM_BITMNG_G= 64 ,1024 ,1024000000 #60
XCM_RSC_G = 3520 ,1024 ,1024000000 #60
XCM_WQUE_G = 20000 ,1024 ,1024000000
#76
#BCM_DFPOOL_G= 10240 ,1024 ,1024000000
#124
#BCM_DPCT_G = 10240 ,1024 ,1024000000
#60
#CCR_GCOMINF = 32768 ,16384 ,1024000000
#3836(0xefc)
#XCM_BITMAP_G= 10240 ,1024 ,1024000000
#92
#XCM_BITMNG_G= 10240 ,1024 ,1024000000
#60
#XCM_RSC_G = 10240 ,1024 ,1024000000
#60
#XCM_WQUE_G = 10240 ,1024 ,1024000000
#76
#-----
# local
# = #
#-----
-----

```

```

BCM_DFPOOL = 128 ,1024 ,1024000000
#124
BCM_DPCT = 64 ,1024 ,1024000000 #60
BCM_LPCT = 960 ,1024 ,1024000000 #60
BCM_LPG = 6400 ,1024 ,1024000000 #252
BCM_PFT = 256 ,1024 ,1024000000 #252
CCR_LCOMINF = 8192 ,16384 ,1024000000
#3836(0xefc)
DSM_DDSF = 256 ,1024 ,1024000000 #252
DSM_DESF = 256 ,1024 ,1024000000 #252
SAP_KEY = 4096 ,8192 ,1024000000 #4092
SCI_CS = 0 ,1 ,1024000000 #124
XCM_BITMAP = 960 ,1024 ,1024000000 #92
XCM_BITMNG = 64 ,1024 ,1024000000 #60
XCM_RSC = 64 ,1024 ,1024000000 #60
XCM_WQUE = 80 ,1024 ,1024000000 #76
XCM_THASH = 48 ,64 ,1024000000 #44
XCM_TQUE = 400 ,1024 ,1024000000 #76
#BCM_DFPOOL = 10240 ,1024 ,1024000000
#124
#BCM_DPCT = 10240 ,1024 ,1024000000 #60
#BCM_LPCT = 10240 ,1024 ,1024000000 #60
#BCM_LPG = 10240 ,1024 ,1024000000
#252
#BCM_PFT = 10240 ,1024 ,1024000000 #252
#CCR_LCOMINF = 16384 ,16384 ,1024000000
#3836(0xefc)
#DSM_DDSF = 10240 ,1024 ,1024000000
#252
#DSM_DESF = 10240 ,1024 ,1024000000
#252
#SAP_KEY = 16384 ,16384 ,1024000000
#4092
#SCI_CS = 0 ,1 ,1024000000 #124
#XCM_BITMAP = 10240 ,1024 ,1024000000
#92
#XCM_BITMNG = 10240 ,1024 ,1024000000
#60
#XCM_RSC = 10240 ,1024 ,1024000000 #60
#XCM_WQUE = 10240 ,1024 ,1024000000
#76
#XCM_THASH = 640 ,64 ,1024000000 #44
#XCM_TQUE = 10240 ,1024 ,1024000000 #76

```

**File: RDBSYSCONFIG**

```

#-----
#
# All Rights Reserved, Copyright(c) FUJITSU
1993, 1994, 1995, 1996
# All Rights Reserved, Copyright(c) PFU 1993,
1994, 1995
#
# : II
#
#-----
#RDBCORE=N:\RDB2\BASE\ETC\RDBCORE
#RDBDIRSPACE1=N:\RDB2\BASE\USR\DIR
#RDBDIRSPACE2=N:\RDB2\BASE\USR\DIR
#RDBLOG=128,128
#RDBCNTNUM=64
#RDBEXTMEM=1024
#RDBEXTMEMADDR=0x20000000

```

```
#RDBPRJCODE=0xdb
#RDBSQLENV=N:\RDB2\BASE\ETC\UXPSQLENV
V
#RDBSYSBUF=N:\RDB2\BASE\ETC
RDBCORE=x:\
#RDBDIRSPACE1=C:\SFWD\RDB\USR\DIR
#RDBDIRSPACE2=C:\SFWD\RDB\USR\DIR
RDBDIRSPACE1=d:\DIR
RDBDIRSPACE2=d:\DIR
#RDBLOG=128,128
#RDBLOG=5120,1024
RDBLOG=512,512
RDBCNTNUM=340
RDBPRJCODE=0xdb
RDBSQLENV=C:\SFWD\RDB\ETC\uxpsqlenv
RDBSYSBUF=C:\SFWD\RDB\ETC
RDBXTMEM=4096
RDBXTMEMADDR=0x7F9B000
```

```
RDBDBSNUM+=165
RDBMAXLWP=330
RDBREADUNC=NO
RDBLOGAIONUM=64
RDBLOGBIONUM=64
```

```
#970304
RDBLOGIOSLEEP=20
RDBLOGSLTRNUM=2
RDBLOGGRCOMMIT=4
```

```
#####
# for 2CPU-4CPU
RDBSLKLOOP=10
#RDBCPUNUM=18
```

```
# FUKA-Balance
#RDBSDPLDBALMODE=0
```

```
#####
#CPU-BIND#
#####
RDBSDPCPU=0,1,2,3 # 1 SQL EXEC
RDBDBSCPU=3 # 2 IO daemon
RDBTLFCPU=3 # 3 LOG
RDBDIRCPU=3 # 4 DIR
RDBWKSCPU=3
RDBCCRDMCPU=3
RDBRECEPCPU=3
RDBSORTCPU=3
RDBTCPICPU=3 # RDBTCP
RDBALFCPU=3
RDBIOCPU=3
# 980827
RDBBUCPU=3
#####
```

```
#RDBMAXRCPIO=15
#980109
RDBMAXRCPIO=20
#RDBMAXDBIO=15
# 980825 RDBMAXDBIO=10 ->
RDBMAXDBIO=13
RDBMAXDBIO=10
#RDBMAXDBIO=13
#RDBMAXRCPIO=100
#RDBMAXDBIO=20
```

```
### KAIO
#####
###
RDBKAIOD9F=yes #
RDBKAIOSLFWAIT=yes #
RDBKAIOCNT=yes # KAIO ON(yes)/OFF(##)
RDBKAIODSP=yes # e o -(rdbstop
P)
RDBKCHKSKIPCNT=100 #
#RDBKCHKSKIPCNT=200 #
#---RDBKTAJUUDOSDP=4096 #
RDBKLSTNUMSDP=3120
#---RDBKCATENUMSDP=1024 #
RDBKAILOYLD=0 # (Default:1)
#RDBIOERRDOWN=yes # KAIO IOERR ->
exit
#####
#####
RDBMCTQSIZE=2048
### CCR-mem (980817) #####
#RDB_SDP_MEM_SIZE_K=16384
#####
```

File: RDBSYSPPARM

```
#
# All Rights Reserved, Copyright(c) FUJITSU
1996, 1997
# All Rights Reserved, Copyright(c) PFU 1996
#
# Title: RDB system definition file
#
#####
# DO NOT TOUCH ME!!
#
#RDBMEMBLKSIZE=63
RDBMEMBLKSIZE=127
#RDBLBUFSIZE=0,128,512
COMMUNICATION_BUFFER=1
SORT_MEM_SIZE=64
WORK_MEM_SIZE=64
#CGP_INIT_SIZE=1
#CGP_ELEM=10
#MEM_CMD_POOL_SIZE=1
#MEM_LC1_POOL_SIZE=1
#MEM_LC2_POOL_SIZE=1
#MEM_LC3_POOL_SIZE=1
#MEM_OPL_POOL_SIZE=1
#MEM_OPT_POOL_SIZE=1
#MEM_SCT_POOL_SIZE=1
#MEM_SPL_POOL_SIZE=1
DYN_SQL_BUFFER=3, 1, 3
TID_BUFFER=1, 1, 3
CURSOR_NAME_BUFFER=1, 1, 1
#BUFFER_SIZE=1, 1
RESULT_BUFFER=0, 1
OPL_BUFFER_SIZE=1
MAX_CONNECT_SYS=20
#DESC_NUM=256
```

File: sokutei 0d pgsr.BAT

```
rdblog -R -a
```

```
rdblog -R -a
rdblog -R -a
rdblog -R -a
rdblog -R -a
rdblog -R -a
rdblog -R -a
rdblog -R -a
rdblog -S -a
rdblog -R -a
rdblog -V -a
```

```
cd \tool\intbind
call intbind-cpu3.bat
```

```
@rem 980902 DELETE WH > 1422
@rem rdbstart
@rem call 3Tire_START.bat
@rem rdbstop
```

```
set SQLRTENV=c:\rdbptc\tpcc80\tpcc\lb-
onsrc\sqlrt_cw.env
```

```
del /Q c:\rdbptc\tpcc80\tpcc\result\deleted\dele*
```

```
cd \rdbptc\tpcc80\ddloza
rdbstart -d
```

```
call crbuf.iza_pgsr.bat
rdbconbf -f conbf.iza_pgsr.dat
```

```
cd \ozalcolumnw
getitem.exe
```

```
cd \rdbptc\tpcc80\tpcc\lb-onsrc
set SQLRTENV=
```

```
@echo #####
@echo ## ##
@echo # sar.bat #
@echo # rdbstop #
@echo ## ##
@echo #####
```

File: sql.env

```
;
; All Rights Reserved, Copyright(c) FUJITSU
1993, 1994, 1995
; All Rights Reserved, Copyright(c) PFU 1993,
1994, 1995
;
; :
;
;
; : '
; :
; : 1 1024
;
;.....
; UXPSQLENV
;.....
;SERVER_SPEC = ( RDB2_TCP, TPCC, TPCC ,
pcrdbsv04 , 2050 )
;SERVER_SPEC = ( RDA, TPCC, TPCC ,
pcrdbsv04 , 2002 )
```

```
SERVER_SPEC = ( RDB2_TCP, SV1, TPCC ,
pcrdbsv10 , 2050 )
DEFAULT_CONNECTION = ( TPCC,
Administrator, rdb2 )
```

```
TRAN_SPEC = ( TRANSACTION_ROLLBACK )
;BUFFER_SIZE = ( 128 , 128 )
;WAIT_TIME = ( 0 )
;SQL_SNAP = ( OFF, /SORTWK2/temp.snap )
;PERFORMANCE = ( OFF, /SORTWK2/temp.perf )
;NCHAR_CODE = ( EUC )
;OPL_BUFFER_SIZE = ( 256 )
OPL_BUFFER_SIZE = ( 280 )
;CHARACTER_TRANSLATE = CLIENT
;CHAR_CODE = EUC
;RESULT_BUFFER = ( 5, 16 )
RESULT_BUFFER = ( 0 )
;MSG_PRINT = ( ON )
;DSO_LOCK = (
TPCC.DISTRICT_DSO/PEX,TPCC.STOCK_DSO/
PEX,TPCC.ORDERLINE_IX_DSO/PEX,TPCC.OR
DERS_DSO/PEX,TPCC.ORDERS_IX1_DSO/PEX
,TPCC.ORDERS_IX2_DSO/PEX,TPCC.ORDERLI
NE_DSO/PEX,TPCC.CUSTOMER_IX_DSO/SH,T
PCC.ITEM_DSO/SH )
;DSO_LOCK = (
TPCC.HISTORY_DSO/EX,TPCC.CUSTOMER_IX
_DSO/SH,TPCC.ITEM_DSO/SH,TPCC.ORDERLI
NE_DSO/EX,TPCC.ORDERLINE_IX_DSO/EX )
;DSO_LOCK = (
TPCC.HISTORY_DSO/EX,TPCC.CUSTOMER_IX
_DSO/SH,TPCC.ITEM_DSO/SH )
;DSO_LOCK = (
TPCC.HISTORY_DSO/EX,TPCC.CUSTOMER_IX
_DSO/SH,TPCC.ITEM_DSO/SH,
;
```

```
TPCC.ORDERS_DSO/EX,TPCC.ORDERS_
IX_DSO/EX )
;DSO_LOCK = (
TPCC.HISTORY_DSO/EX,TPCC.CUSTOMER_IX
_DSO/SH,TPCC.ITEM_DSO/SH )
DSO_LOCK = (
TPCC.HISTORY_DSO/EX,TPCC.CUSTOMER_IX
_DSO/SH,TPCC.ITEM_DSO/SH,
TPCC.ORDERLINE_DSO/EX,TPCC.ORDE
RS_DSO/EX,TPCC.ORDERS_IX_DSO/EX,
TPCC.NEWORDER_DSO/EX,TPCC.NEWO
RDER_IX_DSO/EX )
SIGNAL_INF = NO
SORT_MEM_SIZE = 128
WORK_MEM_SIZE = 64
;ROUTINE_SNAP = ( ON,c:\R_SNAP.txt,2 )
;SQL_SNAP = ( ALL, snap.txt )
```

**File: sqirt.cw.ENV**

```
;
; All Rights Reserved, Copyright(c) FUJITSU
1993, 1994, 1995
; All Rights Reserved, Copyright(c) PFU 1993,
1994, 1995
;
; :
```

```
;
; : ""
; :
; : 1 1024
;
;-----
; UXPSOLENV
;-----
DEFAULT_CONNECTION = ( TPCC )
TRAN_SPEC = ( TRANSACTION_ROLLBACK )
;BUFFER_SIZE = ( 128 , 128 )
;WAIT_TIME = ( 0 )
;PERFORMANCE = ( OFF, /SORTWK2/temp.perf )
)
;NCHAR_CODE = ( EUC )
OPL_BUFFER_SIZE = ( 256 )
;CHARACTER_TRANSLATE = CLIENT
;CHAR_CODE = EUC
;RESULT_BUFFER = ( 5, 16 )
RESULT_BUFFER = ( 0 )
;MSG_PRINT = ( ON )
;DSO_LOCK = (
TPCC.DISTRICT_DSO/PEX,TPCC.STOCK_DSO/
PEX,TPCC.ORDERLINE_IX_DSO/PEX,TPCC.OR
DERS_DSO/PEX,TPCC.ORDERS_IX1_DSO/PEX
,TPCC.ORDERS_IX2_DSO/PEX,TPCC.ORDERLI
NE_DSO/PEX,TPCC.CUSTOMER_IX_DSO/SH,T
PCC.ITEM_DSO/SH )
DSO_LOCK = (
TPCC.HISTORY_DSO/EX,TPCC.CUSTOMER_IX
_DSO/SH,TPCC.ITEM_DSO/SH,TPCC.STOCK_
_DSO/SH )
;-----
SIGNAL_INF = NO
SORT_MEM_SIZE = 128
WORK_MEM_SIZE = 64
;ROUTINE_SNAP = ( ON,c:\rdbptc\tpcc80\tpcc\b-
onsrc\R_SNAP.txt,2 )
;SQL_SNAP = ( ALL, snap.txt )
```

**File: ubbconfig.Client**

```
#
# ubbconfig : TUXEDO configuration file
#
*RESOURCES
IPCKEY 80952
MASTER SITE1
#UID 1
#GID 1
PERM 0660
MAXACCESSERS 2350
MAXSERVERS 50
MAXSERVICES 2300
MODEL SHM
LDBAL Y
*MACHINES
NTCL11 LMID=SITE1
APPDIR="c:\sv-apl\fmf"
TUXCONFIG="c:\client\tuxconfig"
TUXDIR="c:\tuxedo"
ULOGPFX="c:\tuxlog\numazu"
```

ENVFILE="c:\sv-apl\fmf\envfile.txt"

**\*GROUPS**

```
group1 LMID=SITE1 GRPNO=1
group2 LMID=SITE1 GRPNO=2
group3 LMID=SITE1 GRPNO=3
group4 LMID=SITE1 GRPNO=4
group5 LMID=SITE1 GRPNO=5
group6 LMID=SITE1 GRPNO=6
group7 LMID=SITE1 GRPNO=7
group8 LMID=SITE1 GRPNO=8
group9 LMID=SITE1 GRPNO=9
group10 LMID=SITE1 GRPNO=10
group11 LMID=SITE1 GRPNO=11
group12 LMID=SITE1 GRPNO=12
group13 LMID=SITE1 GRPNO=13
group14 LMID=SITE1 GRPNO=14
group15 LMID=SITE1 GRPNO=15
group16 LMID=SITE1 GRPNO=16
group17 LMID=SITE1 GRPNO=17
group18 LMID=SITE1 GRPNO=18
group19 LMID=SITE1 GRPNO=19
group20 LMID=SITE1 GRPNO=20
group21 LMID=SITE1 GRPNO=21
group22 LMID=SITE1 GRPNO=22
```

**\*SERVERS**

```
DEFAULT: RESTART=Y MAXGEN=5
REPLYQ=N RQPERM=0660
tpcc_NT_fm1 SRVGRP=group1
ROADDR=TPCCq1 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group2
ROADDR=TPCCq2 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group3
ROADDR=TPCCq3 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group4
ROADDR=TPCCq4 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group5
ROADDR=TPCCq5 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group6
ROADDR=TPCCq6 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group7
ROADDR=TPCCq7 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group8
ROADDR=TPCCq8 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group9
ROADDR=TPCCq9 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group10
ROADDR=TPCCq10 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group11
ROADDR=TPCCq11 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fm1 SRVGRP=group12
ROADDR=TPCCq12 SRVID=1 CLOPT="-s
TPCC:TPCC"
```

```

tpcc_NT_fml SRVGRP=group13
RQADDR=TPCCq13 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fml SRVGRP=group14
RQADDR=TPCCq14 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fml SRVGRP=group15
RQADDR=TPCCq15 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fml SRVGRP=group16
RQADDR=TPCCq16 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fml SRVGRP=group17
RQADDR=TPCCq17 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fml SRVGRP=group18
RQADDR=TPCCq18 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fml SRVGRP=group19
RQADDR=TPCCq19 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fml SRVGRP=group20
RQADDR=TPCCq20 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fml SRVGRP=group21
RQADDR=TPCCq21 SRVID=1 CLOPT="-s
TPCC:TPCC"
tpcc_NT_fml SRVGRP=group22
RQADDR=TPCCq22 SRVID=1 CLOPT="-s
TPCC:TPCC"

*SERVICES
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group1
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group2
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group3
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group4
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group5
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group6
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group7
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group8
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group9
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group10
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group11
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group12
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group13
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group14
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group15
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group16
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group17
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group18

```

```

"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group19
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group20
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group21
"TPCC" TRANTIME=0 ROUTING="route"
SRVGRP=group22

*ROUTING
"route" FIELD=FML_TERM
BUFTYPE="FML"
RANGES="1-9:group1,10-18:group2,19-
27:group3,28-36:group4,37-45:group5,46-
54:group6,55-63:group7,64-72:group8,73-
81:group9,82-90:group10,91-99:group11,100-
108:group12,109-117:group13,118-
126:group14,127-135:group15,136-
144:group16,145-153:group17,154-
162:group18,163-171:group19,172-
180:group20,181-189:group21,190-
198:group22,*,*"

```

**File: UXPSOLENV**

```

;
; All Rights Reserved, Copyright(c) FUJITSU
1993, 1994, 1995, 1996, 1997
; All Rights Reserved, Copyright(c) PFU 1993,
1994, 1995
;
; :
;
; :
; :
; :
; : 1 1024
;
;MAX_CONNECT_TCP = (0)
;MAX_CONNECT_SYS = (20)
;COMMUNICATION_BUFFER = (1)
;SORT_MEM_SIZE = (2112)
;WORK_PATH = (C:\SFWS\VRDB\TMP)
;WORK_MEM_SIZE = (64)
;DEFAULT_TABLE_SIZE = (4,256,64,0)
;DEFAULT_INDEX_SIZE = (2,2,168,32,32,0)
;TABLE_PREFIX = (#)
;INDEX_PREFIX = (@)
;CONSOLE_MSG = (YES)

MAX_CONNECT_TCP = (330)
MAX_CONNECT_SYS = (320)
COMMUNICATION_BUFFER = (4)
SORT_MEM_SIZE = (5000)
WORK_PATH = (C:\SFWS\VRDB\TMP)
WORK_MEM_SIZE = (5000)
DEFAULT_TABLE_SIZE = (4,256,64,0)
DEFAULT_INDEX_SIZE = (2,2,168,32,32,0)
TABLE_PREFIX = (#)
INDEX_PREFIX = (@)
CONSOLE_MSG = (YES)

;DEBUG_INFO = (ON,5007)

```



# Appendix E: Database Creation Code

**File: ALL\_1458WH\_pgsr\_9WH.bat**

```

echo off

@rem -----
set TESTDIR=c:\rdbptc
@rem -----

@rem Symfo inst-dir
@rem -----
set SFWD_D=c:\sfwd
@rem -----

@rem AI_LOG-dir
@rem -----
set AI_D=f:
@rem -----

@rem BI_LOG-dir
@rem -----
set BI_D=d:
@rem -----

echo
#####
echo TESTDIR=%TESTDIR%
echo SFWD_D=%SFWD_D%
echo AI_D=%AI_D%\dev
echo BI_D=%BI_D%\dev
echo
#####
echo #####
echo OK or NG
echo
#####
echo OK -- HIT ANY KEY to start bach
echo NG -- CTRL+C and change "all.bat" restart
echo
#####
echo #

echo on

rdbstop

call CRDIC_4GB.bat

pause

rdbstart

rdbddlex ddl_db.mak
rdbddlex -d TPCC crta.def.dec_to_int
rdbddlex -d TPCC ddl.oza.pgsr_9WH.dat

```

```

sleep 1
rdbstop

rdbstart

cd 980908-Sload-1458WH
cd sload-batch

start call S-U-01
start call S-U-02
start call S-U-03
start call S-U-04
start call S-U-05
start call S-U-06
start call S-U-07
start call S-U-08
start call S-U-09

sleep 10m

start call S-U-10
start call S-U-11
start call S-U-12
start call S-U-13
start call S-U-14
start call S-U-15
start call S-U-16
start call S-U-17
call S-U-18

cd ..
cd ..
sleep 60m

rdbstart

cd ..\tpcc\l-onsrc\stored

call Y_stored_pgsr.bat

sleep 60m
rdbstop

cd ..\..\ddloza

call make_arc_log.bat

File: CRDIC_4GB.bat

@rem set LOG_IX=%TESTDIR%\dev\I_IX
@rem set LOG_AI=%TESTDIR%\dev\I_AI
@rem set LOG_BI=%BI_D%\dev\I_BI
set LOG_IX=g:\dev\I_IX
set LOG_AI=e:\dev\I_AI
set LOG_BI=f:\dev\I_BI
set DIC_PL=c:\dev\DIC_PL

set BISZ=2000M
set AISZ=4090M
set TRN=320
set RCV=3790M

del c:\sfwd\rdb\etc\rdblogmanage

```

```

del %LOG_IX%
del %LOG_AI%
del %LOG_BI%
del /P %DIC_PL%

rdblog -l

@rem rdblog -G -t -c %RCV% -io 2048
%LOG_IX% %LOG_BI% %LOG_AI% %BISZ%
%AISZ% %TRN%
@rem rdblog -V -t
rdblog -G -t -c %RCV% -io 2048 %LOG_IX%
%LOG_BI% %LOG_AI% %BISZ% %AISZ%
%TRN%
rdblog -V -t

rdbcrdic -f %DIC_PL% -c 100M -a 100M

rdbstart
rdbstop

File: crta.def.dec_to_int

--
#####
--# TPC-C
--#
--# 1995.5.15
--# 1996.4.18 DECIMAL -> CHAR
or SMALLINT or INTEGER
--# 1996.10.18
C_ID,H_C_ID,O_C_ID SMALLINT ->
INTEGER
--# I_IM_ID
--#
--
#####
#####
CREATE SCHEMA TPCC_SCHEMA
--
#####
#####
--#
--#
#####
#####
CREATE TABLE
TPCC_SCHEMA.WAREHOUSE(
W_ID SMALLINT NOT NULL,
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 SMALLINT NOT NULL,
W_YTD DECIMAL(12,2) NOT
NULL,
PRIMARY KEY(W_ID)
)

```

```
CREATE TABLE TPCC_SCHEMA.DISTRICT(
  D_ID          SMALLINT NOT NULL,
  D_W_ID       SMALLINT NOT NULL,
  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        SMALLINT NOT NULL,
  D_YTD        DECIMAL(12,2) NOT
NULL,
  D_NEXT_O_ID  INTEGER   NOT
NULL,
  PRIMARY KEY(D_W_ID,D_ID)
)
```

```
CREATE TABLE TPCC_SCHEMA.CUSTOMER(
  C_ID          INTEGER   NOT NULL,
  C_D_ID       SMALLINT NOT NULL,
  C_W_ID       SMALLINT NOT NULL,
  C_FIRST      CHAR(16)  NOT NULL,
  C_MIDDLE     CHAR(2)   NOT NULL,
  C_LAST       CHAR(16)  NOT NULL,
  C_STREET_1   CHAR(20)  NOT NULL,
  C_STREET_2   CHAR(20)  NOT NULL,
  C_CITY       CHAR(20)  NOT NULL,
  C_STATE      CHAR(2)   NOT
NULL,
  C_ZIP        CHAR(9)   NOT
NULL,
  C_PHONE      CHAR(16)  NOT NULL,
  C_SINCE      CHAR(14)  NOT NULL,
  C_CREDIT     CHAR(2)   NOT NULL,
  C_CREDIT_LIM DECIMAL(12,2) NOT
NULL,
  C_DISCOUNT SMALLINT NOT NULL,
  C_BALANCE    DECIMAL(12,2) NOT
NULL,
  C_YTD_PAYMENT DECIMAL(12,2) NOT
NULL,
  C_PAYMENT_CNT SMALLINT NOT
NULL,
  C_DELIVERY_CNT SMALLINT NOT
NULL,
  C_DATA       CHAR(500) NOT NULL,
  PRIMARY KEY(C_W_ID, C_D_ID, C_ID)
)
```

```
CREATE TABLE TPCC_SCHEMA.ITEM(
  I_ID          INTEGER   NOT NULL,
  I_IM_ID       INTEGER   NOT
NULL,
  I_NAME        CHAR(24)  NOT NULL,
  I_PRICE       SMALLINT NOT NULL,
  I_DATA        CHAR(50)  NOT NULL,
  PRIMARY KEY(I_ID)
)
```

```
CREATE TABLE TPCC_SCHEMA.STOCK(
  S_I_ID        INTEGER   NOT
NULL,
  S_W_ID        SMALLINT NOT NULL,
  S_QUANTITY    SMALLINT 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_YTD         INTEGER   NOT
NULL,
```

```
  S_ORDER_CNT  SMALLINT NOT NULL,
  S_REMOTE_CNT  SMALLINT NOT
NULL,
  S_DATA       CHAR(50)  NOT NULL,
  PRIMARY KEY(S_W_ID, S_I_ID)
)
```

```
CREATE TABLE TPCC_SCHEMA.NEWORDER(
  NO_O_ID       INTEGER   NOT
NULL,
  NO_D_ID       SMALLINT NOT NULL,
  NO_W_ID       SMALLINT NOT NULL,
  PRIMARY KEY(NO_W_ID, NO_D_ID,
NO_O_ID)
)
```

```
CREATE TABLE TPCC_SCHEMA.ORDERS(
  O_ID          INTEGER   NOT NULL,
  O_D_ID       SMALLINT NOT NULL,
  O_W_ID       SMALLINT NOT NULL,
  O_C_ID       INTEGER   NOT
NULL,
  O_ENTRY_D    CHAR(14)  NOT NULL,
  O_CARRIER_ID SMALLINT,
  O_OL_CNT     SMALLINT NOT NULL,
  O_ALL_LOCAL  SMALLINT NOT NULL,
  PRIMARY KEY(O_W_ID, O_D_ID, O_ID)
)
```

```
CREATE TABLE TPCC_SCHEMA.ORDERLINE(
  OL_O_ID       INTEGER   NOT
NULL,
  OL_D_ID       SMALLINT NOT NULL,
  OL_W_ID       SMALLINT NOT NULL,
  OL_NUMBER     SMALLINT NOT NULL,
  OL_I_ID       INTEGER   NOT
NULL,
  OL_SUPPLY_W_ID SMALLINT NOT
NULL,
  OL_DELIVERY_D CHAR(14),
  OL_QUANTITY   SMALLINT NOT NULL,
  OL_AMOUNT     INTEGER   NOT
NULL,
  OL_DIST_INFO  CHAR(24)  NOT NULL,
  PRIMARY KEY(OL_W_ID, OL_D_ID,
OL_O_ID, OL_NUMBER)
)
```

```
CREATE TABLE TPCC_SCHEMA.HISTORY(
  H_C_ID        INTEGER   NOT
NULL,
  H_C_D_ID      SMALLINT NOT NULL,
  H_C_W_ID      SMALLINT NOT NULL,
  H_D_ID        SMALLINT NOT NULL,
  H_W_ID        SMALLINT NOT NULL,
  H_DATE        CHAR(14)  NOT NULL,
  H_AMOUNT      INTEGER   NOT NULL,
```

```
  H_DATA        CHAR(24)  NOT NULL
)
```

```
CREATE TABLE TPCC_SCHEMA.PHCNTL(
  S_I_ID        INTEGER   NOT
NULL,
  S_W_ID        SMALLINT NOT NULL,
  PRIMARY KEY(S_W_ID, S_I_ID)
)
```

File: ddl\_oza.pgsrc\_9WH.dat

-----  
-- Phase.1: DB Space  
-----

```
-----
-- UW-SCSI
-- CARD1
-- Chn0
  CREATE DBSPACE SP1 ALLOCATE
FILE \\.\PhysicalDrive6 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP2 ALLOCATE
FILE \\.\PhysicalDrive7 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP3 ALLOCATE
FILE \\.\PhysicalDrive8 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP4 ALLOCATE
FILE \\.\PhysicalDrive9 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP5 ALLOCATE
FILE \\.\PhysicalDrive10 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP6 ALLOCATE
FILE \\.\PhysicalDrive11 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP7 ALLOCATE
FILE \\.\PhysicalDrive12 ATTRIBUTE
SPACE(1400M);
-- Chn1
  CREATE DBSPACE SP8 ALLOCATE
FILE \\.\PhysicalDrive13 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP9 ALLOCATE
FILE \\.\PhysicalDrive14 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP10 ALLOCATE
FILE \\.\PhysicalDrive15 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP11 ALLOCATE
FILE \\.\PhysicalDrive16 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP12 ALLOCATE
FILE \\.\PhysicalDrive17 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP13 ALLOCATE
FILE \\.\PhysicalDrive18 ATTRIBUTE
SPACE(1400M);
  CREATE DBSPACE SP14 ALLOCATE
FILE \\.\PhysicalDrive19 ATTRIBUTE
SPACE(1400M);
-- Chn2
```





```

CREATE DBSPACE SP136 ALLOCATE
FILE \\.\PhysicalDrive149 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP137 ALLOCATE
FILE \\.\PhysicalDrive150 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP138 ALLOCATE
FILE \\.\PhysicalDrive151 ATTRIBUTE
SPACE(1400M);
-- CREATE DBSPACE ALLOCATE FILE
\\.\PhysicalDrive152 ATTRIBUTE SPACE(1400M);

-- CARD8
-- Chn0
CREATE DBSPACE SP139 ALLOCATE
FILE \\.\PhysicalDrive153 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP140 ALLOCATE
FILE \\.\PhysicalDrive154 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP141 ALLOCATE
FILE \\.\PhysicalDrive155 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP142 ALLOCATE
FILE \\.\PhysicalDrive156 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP143 ALLOCATE
FILE \\.\PhysicalDrive157 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP144 ALLOCATE
FILE \\.\PhysicalDrive158 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP145 ALLOCATE
FILE \\.\PhysicalDrive159 ATTRIBUTE
SPACE(1400M);
-- Chn1
CREATE DBSPACE SP146 ALLOCATE
FILE \\.\PhysicalDrive160 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP147 ALLOCATE
FILE \\.\PhysicalDrive162 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP149 ALLOCATE
FILE \\.\PhysicalDrive163 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP150 ALLOCATE
FILE \\.\PhysicalDrive164 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP151 ALLOCATE
FILE \\.\PhysicalDrive165 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP152 ALLOCATE
FILE \\.\PhysicalDrive166 ATTRIBUTE
SPACE(1400M);
-- Chn2
CREATE DBSPACE SP153 ALLOCATE
FILE \\.\PhysicalDrive167 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP154 ALLOCATE
FILE \\.\PhysicalDrive168 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP155 ALLOCATE
FILE \\.\PhysicalDrive169 ATTRIBUTE
SPACE(1400M);

```

```

CREATE DBSPACE SP156 ALLOCATE
FILE \\.\PhysicalDrive170 ATTRIBUTE
SPACE(1400M);
-- CREATE DBSPACE ALLOCATE FILE
\\.\PhysicalDrive171 ATTRIBUTE SPACE(1400M);
-- CREATE DBSPACE ALLOCATE FILE
\\.\PhysicalDrive172 ATTRIBUTE SPACE(1400M);
-- CREATE DBSPACE ALLOCATE FILE
\\.\PhysicalDrive173 ATTRIBUTE SPACE(1400M);

CREATE DBSPACE SP157 ALLOCATE
FILE \\.\PhysicalDrive174 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP158 ALLOCATE
FILE \\.\PhysicalDrive175 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP159 ALLOCATE
FILE \\.\PhysicalDrive176 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP160 ALLOCATE
FILE \\.\PhysicalDrive177 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP161 ALLOCATE
FILE \\.\PhysicalDrive178 ATTRIBUTE
SPACE(1400M);
CREATE DBSPACE SP162 ALLOCATE
FILE \\.\PhysicalDrive179 ATTRIBUTE
SPACE(1400M);
-- CREATE DBSPACE ALLOCATE FILE
\\.\PhysicalDrive179 ATTRIBUTE SPACE(1400M);

-----
-- Phase.2: DSO/DSI
-----
-----
-- Phase.X-X: PHCNTL
-----
CREATE DSO PHCNTL_DSO
FROM TPCC_SCHEMA.PHCNTL
TYPE
RANDOM(PAGESIZE1(2),PAGESIZE2(1))
WHERE (S_W_ID) BETWEEN
(?) AND (?);

CREATE DSI PHCNTL_1_DSI
DSO PHCNTL_DSO
USING(1,9)
ALLOCATE PRIME ON SP1 SIZE
124K,
OVERFLOW ON SP1 SIZE 4K;

CREATE DSI PHCNTL_2_DSI
DSO PHCNTL_DSO
USING(10,18)
ALLOCATE PRIME ON SP2 SIZE
124K,
OVERFLOW ON SP2 SIZE 4K;

CREATE DSI PHCNTL_161_DSI
DSO PHCNTL_DSO
USING(1441,1449)
ALLOCATE PRIME ON SP161
SIZE 124K,

```

```

OVERFLOW ON SP161 SIZE
4K;
CREATE DSI PHCNTL_162_DSI
DSO PHCNTL_DSO
USING(1450,2916)
ALLOCATE PRIME ON SP162
SIZE 124K,
OVERFLOW ON SP162 SIZE
4K;
-----
-- Phase.2-6a: NewOrder
-----
CREATE DSO NEWORDER_DSO
FROM TPCC_SCHEMA.NEWORDER
TYPE
RANDOM(PAGESIZE1(8),PAGESIZE2(1),RULE((
NO_O_ID/8)*9+NO_W_ID+(NO_D_ID-
1)*10+(NO_O_ID-((NO_O_ID/8)*8))*1467))
WHERE (NO_W_ID)
BETWEEN (?) AND (?);

CREATE DSI NEWORDER_1_DSI
DSO NEWORDER_DSO
USING(1,9)
ALLOCATE PRIME ON SP1 SIZE
11744K,
OVERFLOW ON SP1 SIZE
411K;

CREATE DSI NEWORDER_2_DSI
DSO NEWORDER_DSO
USING(10,18)
ALLOCATE PRIME ON SP2 SIZE
11744K,
OVERFLOW ON SP2 SIZE
411K;

CREATE DSI NEWORDER_161_DSI
DSO NEWORDER_DSO
USING(1441,1449)
ALLOCATE PRIME ON SP161
SIZE 11744K,
OVERFLOW ON SP161 SIZE
411K;

CREATE DSI NEWORDER_162_DSI
DSO NEWORDER_DSO
USING(1450,2916)
ALLOCATE PRIME ON SP162
SIZE 11744K,
OVERFLOW ON SP162 SIZE
411K;
-----
-- Phase.2-6b: NewOrder-Index
-----
CREATE DSO NEWORDER_IX_DSO

```

```

INDEX ON
TPCC_SCHEMA.NEWORDER(NO_W_ID,NO_D_
ID,NO_O_ID)
TYPE
BTREE(PAGESIZE1(8),PAGESIZE2(32),DEGENE
RATE);
CREATE DSI NEWORDER_IX_1DSI
INDEX
DSO NEWORDER_IX_DSO
BASE NEWORDER_1_DSI
ALLOCATE INDEX ON SP1 SIZE
128K,
BASE ON SP1 SIZE 5416K;

CREATE DSI NEWORDER_IX_2DSI
INDEX
DSO NEWORDER_IX_DSO
BASE NEWORDER_2_DSI
ALLOCATE INDEX ON SP2 SIZE
128K,
BASE ON SP2 SIZE 5416K;

CREATE DSI NEWORDER_IX_161DSI
INDEX
DSO NEWORDER_IX_DSO
BASE NEWORDER_161_DSI
ALLOCATE INDEX ON SP161 SIZE
128K,
BASE ON SP161 SIZE
5416K;

CREATE DSI NEWORDER_IX_162DSI
INDEX
DSO NEWORDER_IX_DSO
BASE NEWORDER_162_DSI
ALLOCATE INDEX ON SP162 SIZE
128K,
BASE ON SP162 SIZE
5416K;

-----
-- Phase-2-2: District
-----

CREATE DSO DISTRICT_DSO
FROM TPCC_SCHEMA.DISTRICT
TYPE
RANDOM(PAGESIZE1(1),PAGESIZE2(1),RULE(
D_W_ID*20+D_ID*2))
WHERE (D_W_ID) BETWEEN
(?) AND (?);

CREATE DSI DISTRICT_1_DSI
DSO DISTRICT_DSO
USING(1,54)
ALLOCATE PRIME ON SP1 SIZE
1201K,
OVERFLOW ON SP1 SIZE
30K;

CREATE DSI DISTRICT_2_DSI
DSO DISTRICT_DSO
USING(55,108)
ALLOCATE PRIME ON SP7 SIZE
1201K,
OVERFLOW ON SP7 SIZE
30K;

```

```

CREATE DSI DISTRICT_26_DSI
DSO DISTRICT_DSO
USING(1351,1404)
ALLOCATE PRIME ON SP151
SIZE 1201K,
OVERFLOW ON SP151 SIZE
30K;

CREATE DSI DISTRICT_2_7_DSI
DSO DISTRICT_DSO
USING(1405,2916)
ALLOCATE PRIME ON SP157
SIZE 1201K,
OVERFLOW ON SP157 SIZE
30K;

-----
-- Phase-2-1: Warehouse
-----

CREATE DSO WAREHOUSE_DSO
FROM
TPCC_SCHEMA.WAREHOUSE
TYPE
RANDOM(PAGESIZE1(1),PAGESIZE2(1))
WHERE (W_ID) BETWEEN (?)
AND (?);

CREATE DSI WAREHOUSE_1_DSI
DSO WAREHOUSE_DSO
USING(1,54)
ALLOCATE PRIME ON SP2 SIZE
2787K,
OVERFLOW ON SP2 SIZE
11K;

CREATE DSI WAREHOUSE_2_DSI
DSO WAREHOUSE_DSO
USING(55,108)
ALLOCATE PRIME ON SP8 SIZE
2787K,
OVERFLOW ON SP8 SIZE
11K;

CREATE DSI WAREHOUSE_26_DSI
DSO WAREHOUSE_DSO
USING(1351,1404)
ALLOCATE PRIME ON SP152
SIZE 2787K,
OVERFLOW ON SP152 SIZE
11K;

CREATE DSI WAREHOUSE_27_DSI
DSO WAREHOUSE_DSO
USING(1405,2916)
ALLOCATE PRIME ON SP158
SIZE 2787K,
OVERFLOW ON SP158 SIZE
11K;

-----
-- Phase-2-8: Stock
-----

CREATE DSO STOCK_DSO

```

```

FROM TPCC_SCHEMA.STOCK
TYPE
RANDOM(PAGESIZE1(4),PAGESIZE2(1),RULE(S
_ID*3+(S_W_ID-1)/9+(S_W_ID-
S_W_ID/9*9)*300000))
WHERE (S_W_ID) BETWEEN
(?) AND (?);

CREATE DSI STOCK_1_DSI
DSO STOCK_DSO
USING(1,27)
ALLOCATE PRIME ON SP1 SIZE
200004K
SP2 SIZE 200000K
SP3 SIZE 200000K
SP4 SIZE 200000K
SP5 SIZE 200000K
SP6 SIZE 200000K,
OVERFLOW ON SP3 SIZE
54002K;

CREATE DSI STOCK_2_DSI
DSO STOCK_DSO
USING(28,54)
ALLOCATE PRIME ON SP1 SIZE
200004K
SP2 SIZE 200000K
SP3 SIZE 200000K
SP4 SIZE 200000K
SP5 SIZE 200000K
SP6 SIZE 200000K,
OVERFLOW ON SP4 SIZE
54002K;

CREATE DSI STOCK_3_DSI
DSO STOCK_DSO
USING(55,81)
ALLOCATE PRIME ON SP7 SIZE
200004K
SP8 SIZE 200000K
SP9 SIZE 200000K
SP10 SIZE 200000K
SP11 SIZE 200000K
SP12 SIZE 200000K,
OVERFLOW ON SP9 SIZE
54002K;

CREATE DSI STOCK_4_DSI
DSO STOCK_DSO
USING(82,108)
ALLOCATE PRIME ON SP7 SIZE
200004K
SP8 SIZE 200000K
SP9 SIZE 200000K
SP10 SIZE 200000K
SP11 SIZE 200000K
SP12 SIZE 200000K,
OVERFLOW ON SP10 SIZE
54002K;

CREATE DSI STOCK_53_DSI
DSO STOCK_DSO
USING(1405,1431)

```

```

ALLOCATE PRIME ON SP157
SIZE 200004K
      SP158 SIZE 200000K
      SP159 SIZE 200000K
      SP160 SIZE 200000K
      SP161 SIZE 200000K
      SP162 SIZE 200000K,
OVERFLOW ON SP159 SIZE
54002K;

```

```

CREATE DSI STOCK_54_DSI
DSO STOCK_DSO
USING(1432,2916)
ALLOCATE PRIME ON SP157
SIZE 200004K
      SP158 SIZE 200000K
      SP159 SIZE 200000K
      SP160 SIZE 200000K
      SP161 SIZE 200000K
      SP162 SIZE 200000K,
OVERFLOW ON SP160 SIZE
54002K;

```

```

-----
-- Phase.2-3a: Customer
-----
CREATE DSO CUSTOMER_DSO
FROM TPCC_SCHEMA.CUSTOMER
TYPE
RANDOM(PAGESIZE1(8),PAGESIZE2(1),RULE((
C_ID*10+C_D_ID+(C_W_ID-
(C_W_ID/9)*9))*30000)))
WHERE (C_W_ID) BETWEEN
(?) AND (?);

```

```

CREATE DSI CUSTOMER_1_DSI
DSO CUSTOMER_DSO
USING(1,9)
ALLOCATE PRIME ON SP1 SIZE
240008K,
OVERFLOW ON SP1 SIZE
10802K;

```

```

CREATE DSI CUSTOMER_2_DSI
DSO CUSTOMER_DSO
USING(10,18)
ALLOCATE PRIME ON SP2 SIZE
240008K,
OVERFLOW ON SP2 SIZE
10802K;

```

```

CREATE DSI CUSTOMER_161_DSI
DSO CUSTOMER_DSO
USING(1441,1449)
ALLOCATE PRIME ON SP161
SIZE 240008K,
OVERFLOW ON SP161 SIZE
10802K;

```

```

CREATE DSI CUSTOMER_162_DSI
DSO CUSTOMER_DSO
USING(1450,2916)
ALLOCATE PRIME ON SP162
SIZE 240008K,
OVERFLOW ON SP162 SIZE
10802K;

```

```

-----
-- Phase.2-3b: Customer-Index
-----
CREATE DSO CUSTOMER_IX_DSO
INDEX ON
TPCC_SCHEMA.CUSTOMER(C_W_ID,C_D_ID,
C_LAST)

```

```

TYPE
BTREE(PAGESIZE1(8),PAGESIZE2(32));

CREATE DSI CUSTOMER_IX_1_DSI
INDEX
DSO CUSTOMER_IX_DSO
BASE CUSTOMER_1_DSI
ALLOCATE INDEX ON SP1 SIZE
64K,
BASE ON SP1 SIZE 6912K;

```

```

CREATE DSI CUSTOMER_IX_2_DSI
INDEX
DSO CUSTOMER_IX_DSO
BASE CUSTOMER_2_DSI
ALLOCATE INDEX ON SP2 SIZE
64K,
BASE ON SP2 SIZE 6912K;

```

```

CREATE DSI CUSTOMER_IX_161_DSI
INDEX
DSO CUSTOMER_IX_DSO
BASE CUSTOMER_161_DSI
ALLOCATE INDEX ON SP161 SIZE
64K,
BASE ON SP161 SIZE
6912K;

```

```

CREATE DSI CUSTOMER_IX_162_DSI
INDEX
DSO CUSTOMER_IX_DSO
BASE CUSTOMER_162_DSI
ALLOCATE INDEX ON SP162 SIZE
64K,
BASE ON SP162 SIZE
6912K;

```

```

-----
-- Phase.2-4a: Orders
-----
CREATE DSO ORDERS_DSO
FROM TPCC_SCHEMA.ORDERS
TYPE
RANDOM(PAGESIZE1(8),PAGESIZE2(1),RULE((
O_ID/8)*9+O_W_ID+((O_D_ID-1)*10+(O_ID-
((O_ID/8)*8))*4292))
WHERE (O_W_ID) BETWEEN
(?) AND (?);

```

```

CREATE DSI ORDERS_1_DSI
DSO ORDERS_DSO
USING(1,9)
ALLOCATE PRIME ON SP1 SIZE
34344K,
OVERFLOW ON SP1 SIZE
271K;

```

```

CREATE DSI ORDERS_2_DSI
DSO ORDERS_DSO
USING(10,18)
ALLOCATE PRIME ON SP2 SIZE
34344K,
OVERFLOW ON SP2 SIZE
271K;

```

```

CREATE DSI ORDERS_161_DSI
DSO ORDERS_DSO
USING(1441,1449)
ALLOCATE PRIME ON SP161
SIZE 34344K,
OVERFLOW ON SP161 SIZE
271K;

```

```

CREATE DSI ORDERS_162_DSI
DSO ORDERS_DSO
USING(1450,2916)
ALLOCATE PRIME ON SP162
SIZE 34344K,
OVERFLOW ON SP162 SIZE
271K;

```

```

-----
-- Phase.2-4b: Orders-IX
-----
CREATE DSO ORDERS_IX_DSO
INDEX ON
TPCC_SCHEMA.ORDERS(O_W_ID,O_D_ID,O_
C_ID)
TYPE
BTREE(PAGESIZE1(4),PAGESIZE2(32));

```

```

CREATE DSI ORDERS_IX_1_DSI
INDEX
DSO ORDERS_IX_DSO
BASE ORDERS_1_DSI
ALLOCATE INDEX ON SP1 SIZE
480K,
BASE ON SP1 SIZE 1 3424K;

```

```

CREATE DSI ORDERS_IX_2_DSI
INDEX
DSO ORDERS_IX_DSO
BASE ORDERS_2_DSI
ALLOCATE INDEX ON SP2 SIZE
480K,
BASE ON SP2 SIZE 13424K;

```

```

CREATE DSI ORDERS_IX_161_DSI
INDEX
DSO ORDERS_IX_DSO
BASE ORDERS_161_DSI
ALLOCATE INDEX ON SP161 SIZE
480K,
BASE ON SP161 SIZE
13424K;

```

```

CREATE DSI ORDERS_IX_162_DSI
INDEX
DSO ORDERS_IX_DSO
BASE ORDERS_162_DSI

```

```

ALLOCATE INDEX ON SP162 SIZE
480K,
      BASE ON SP162 SIZE
13424K;
-----
-- Phase.2-5a: OrderLine
-----
CREATE DSO ORDERLINE_DSO
FROM TPCC_SCHEMA.ORDERLINE
TYPE
RANDOM(PAGESIZE1(32),PAGESIZE2(8),RULE(
(OL_O_ID/30)*90+OL_W_ID*10+OL_D_ID+(OL_N
UMBER+(OL_O_ID-
((OL_O_ID/30)*30))*15)*11255))
WHERE (OL_W_ID) BETWEEN
(?) AND (?);

CREATE DSI ORDERLIN_1_DSI
DSO ORDERLINE_DSO
USING(1,9)
ALLOCATE PRIME ON SP1 SIZE
360192K,
      OVERFLOW ON SP1 SIZE
1440K;

CREATE DSI ORDERLIN_2_DSI
DSO ORDERLINE_DSO
USING(10,18)
ALLOCATE PRIME ON SP2 SIZE
360192K,
      OVERFLOW ON SP2 SIZE
1440K;

CREATE DSI ORDERLIN_161_DSI
DSO ORDERLINE_DSO
USING(1441,1449)
ALLOCATE PRIME ON SP161
SIZE 360192K,
      OVERFLOW ON SP161 SIZE
1440K;

CREATE DSI ORDERLIN_162_DSI
DSO ORDERLINE_DSO
USING(1450,2916)
ALLOCATE PRIME ON SP162
SIZE 360192K,
      OVERFLOW ON SP162 SIZE
1440K;
-----
-- Phase.2-7: History
-----
CREATE DSO HISTORY_DSO
FROM TPCC_SCHEMA.HISTORY
TYPE
SEQUENTIAL(PAGESIZE(4),ORDER(0))
WHERE (H_W_ID) BETWEEN
(?) AND (?);

CREATE DSI HISTORY_1_DSI
DSO HISTORY_DSO
USING(1,9)

```

```

ALLOCATE DATA ON SP1 SIZE
26544K;

CREATE DSI HISTORY_2_DSI
DSO HISTORY_DSO
USING(10,18)
ALLOCATE DATA ON SP2 SIZE
26544K;

CREATE DSI HISTORY_161_DSI
DSO HISTORY_DSO
USING(1441,1449)
ALLOCATE DATA ON SP161 SIZE
26544K;

CREATE DSI HISTORY_162_DSI
DSO HISTORY_DSO
USING(1450,2916)
ALLOCATE DATA ON SP162 SIZE
26544K;
-----
-- Phase.2-9: Item
-----
CREATE DSO ITEM_DSO
FROM TPCC_SCHEMA.ITEM
TYPE
RANDOM(PAGESIZE1(1),PAGESIZE2(1),RULE(I
_D/7+(I_ID-((I_ID/7)*7))*14286));

CREATE DSI ITEM_1_DSI
DSO ITEM_DSO
ALLOCATE PRIME ON SP53
SIZE 1435K

SP54 SIZE 1428K
SP55 SIZE 1428K
SP56 SIZE 1428K
SP57 SIZE 1428K
SP58 SIZE 1428K
SP59 SIZE 1428K
SP60 SIZE 1428K
SP61 SIZE 1428K
SP62 SIZE 1428K,
      OVERFLOW ON SP63 SIZE
716K;

File: ddl_db.mak
--
/*=====
=====*/
--/*
--
/*=====
=====*/

```

```

CREATE DATABASE TPCC;

File: make_arc_log.bat
set ARC_LOG_DIR=h:
set ARC_LOG_SIZE=2040M

del %ARC_LOG_DIR%\TPCC_arclog*

rdblog -G -a %ARC_LOG_DIR%\TPCC_arclog
%ARC_LOG_SIZE%
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_2
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_3
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_4
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_5
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_6
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_7
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_8
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_9
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_10
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_11
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_12
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_13
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_14
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_15
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_16
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_17
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_18
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_19
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_20
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_21
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_22
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_23
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_24
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_25
rdblog -U -a %ARC_LOG_DIR%\TPCC_arclog_26

File: sload_1404-01.bat
set SL_LOAD_D=h:\rdbloaddata
set WK1_D=h:\rdb\sortwk1
set WK2_D=i:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
wtppcd1.c.dec_to_int.bin a 1 9 C
%SL_LOAD_D%
rdbloader -mi -i TPCC.CUSTOMER_1_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\Customer1_9
del /Q %SL_LOAD_D%\Customer1_9
rdbloader -mi -i TPCC.HISTORY_1_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History1_9
del /Q %SL_LOAD_D%\History1_9
wtppcd1.c.dec_to_int.bin a 10 18 C
%SL_LOAD_D%
rdbloader -mi -i TPCC.CUSTOMER_2_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\Customer10_18
del /Q %SL_LOAD_D%\Customer10_18
rdbloader -mi -i TPCC.HISTORY_2_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History10_18

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```



```

del /Q %SL_LOAD_D%\History\10_18
wtpccd1.c.dec_to_int.bin a 19 27 C
%SL_LOAD_D%
rdbloader -mi -i TPCC.CUSTOMER_3_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\Customer\19_27
del /Q %SL_LOAD_D%\Customer\19_27
rdbloader -mi -i TPCC.HISTORY_3_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History\19_27
del /Q %SL_LOAD_D%\History\19_27
wtpccd1.c.dec_to_int.bin a 28 36 C
%SL_LOAD_D%
rdbloader -mi -i TPCC.CUSTOMER_4_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\Customer\28_36
del /Q %SL_LOAD_D%\Customer\28_36
rdbloader -mi -i TPCC.HISTORY_4_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History\28_36
del /Q %SL_LOAD_D%\History\28_36
wtpccd1.c.dec_to_int.bin a 37 45 C
%SL_LOAD_D%
rdbloader -mi -i TPCC.CUSTOMER_5_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\Customer\37_45
del /Q %SL_LOAD_D%\Customer\37_45
rdbloader -mi -i TPCC.HISTORY_5_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History\37_45
del /Q %SL_LOAD_D%\History\37_45
wtpccd1.c.dec_to_int.bin a 46 54 C
%SL_LOAD_D%
rdbloader -mi -i TPCC.CUSTOMER_6_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\Customer\46_54
del /Q %SL_LOAD_D%\Customer\46_54
rdbloader -mi -i TPCC.HISTORY_6_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History\46_54
del /Q %SL_LOAD_D%\History\46_54
wtpccd1.c.dec_to_int.bin a 55 63 C
%SL_LOAD_D%
rdbloader -mi -i TPCC.CUSTOMER_7_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\Customer\55_63
del /Q %SL_LOAD_D%\Customer\55_63
rdbloader -mi -i TPCC.HISTORY_7_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History\55_63
del /Q %SL_LOAD_D%\History\55_63
wtpccd1.c.dec_to_int.bin a 64 72 C
%SL_LOAD_D%
rdbloader -mi -i TPCC.CUSTOMER_8_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\Customer\64_72
del /Q %SL_LOAD_D%\Customer\64_72
rdbloader -mi -i TPCC.HISTORY_8_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History\64_72
del /Q %SL_LOAD_D%\History\64_72
wtpccd1.c.dec_to_int.bin a 73 81 C
%SL_LOAD_D%
rdbloader -mi -i TPCC.CUSTOMER_9_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\Customer\73_81
del /Q %SL_LOAD_D%\Customer\73_81
rdbloader -mi -i TPCC.HISTORY_9_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History\73_81
del /Q %SL_LOAD_D%\History\73_81

```

@rem ### Warehouse ###

```

wtpccd1.c.dec_to_int.bin a 1 54 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_1_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\1_54
del /Q %SL_LOAD_D%\Warehouse\1_54
wtpccd1.c.dec_to_int.bin a 55 108 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_2_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\55_108
del /Q %SL_LOAD_D%\Warehouse\55_108
wtpccd1.c.dec_to_int.bin a 109 162 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_3_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\109_162
del /Q
%SL_LOAD_D%\Warehouse\109_162
wtpccd1.c.dec_to_int.bin a 163 216 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_4_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\163_216
del /Q
%SL_LOAD_D%\Warehouse\163_216
wtpccd1.c.dec_to_int.bin a 217 270 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_5_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\217_270
del /Q
%SL_LOAD_D%\Warehouse\217_270
wtpccd1.c.dec_to_int.bin a 271 324 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_6_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\271_324
del /Q
%SL_LOAD_D%\Warehouse\271_324
wtpccd1.c.dec_to_int.bin a 325 378 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_7_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\325_378
del /Q
%SL_LOAD_D%\Warehouse\325_378
wtpccd1.c.dec_to_int.bin a 379 432 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_8_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\379_432
del /Q
%SL_LOAD_D%\Warehouse\379_432
wtpccd1.c.dec_to_int.bin a 433 486 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_9_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\433_486
del /Q
%SL_LOAD_D%\Warehouse\433_486
wtpccd1.c.dec_to_int.bin a 487 540 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_10_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\487_540
del /Q
%SL_LOAD_D%\Warehouse\487_540

```

```

wtpccd1.c.dec_to_int.bin a 541 594 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_11_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\541_594
del /Q
%SL_LOAD_D%\Warehouse\541_594
wtpccd1.c.dec_to_int.bin a 595 648 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_12_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\595_648
del /Q
%SL_LOAD_D%\Warehouse\595_648
wtpccd1.c.dec_to_int.bin a 649 702 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_13_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\649_702
del /Q
%SL_LOAD_D%\Warehouse\649_702
wtpccd1.c.dec_to_int.bin a 703 756 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_14_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\703_756
del /Q
%SL_LOAD_D%\Warehouse\703_756
wtpccd1.c.dec_to_int.bin a 757 810 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_15_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\757_810
del /Q
%SL_LOAD_D%\Warehouse\757_810
wtpccd1.c.dec_to_int.bin a 811 864 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_16_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\811_864
del /Q
%SL_LOAD_D%\Warehouse\811_864
wtpccd1.c.dec_to_int.bin a 865 918 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_17_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\865_918
del /Q
%SL_LOAD_D%\Warehouse\865_918
wtpccd1.c.dec_to_int.bin a 919 972 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_18_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\919_972
del /Q
%SL_LOAD_D%\Warehouse\919_972
wtpccd1.c.dec_to_int.bin a 973 1026 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_19_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\973_1026
del /Q
%SL_LOAD_D%\Warehouse\973_1026
wtpccd1.c.dec_to_int.bin a 1027 1080 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_20_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\1027_1080

```

```

del /Q
%SL_LOAD_D%\Warehouse\1027_1080
  wtpccd1.c.dec_to_int.bin a 1081 1134 W
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.WAREHOUSE_21_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\1081_1134
del /Q
%SL_LOAD_D%\Warehouse\1081_1134
  wtpccd1.c.dec_to_int.bin a 1135 1188 W
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.WAREHOUSE_22_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\1135_1188
del /Q
%SL_LOAD_D%\Warehouse\1135_1188
  wtpccd1.c.dec_to_int.bin a 1189 1242 W
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.WAREHOUSE_23_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\1189_1242
del /Q
%SL_LOAD_D%\Warehouse\1189_1242
  wtpccd1.c.dec_to_int.bin a 1243 1296 W
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.WAREHOUSE_24_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\1243_1296
del /Q
%SL_LOAD_D%\Warehouse\1243_1296
  wtpccd1.c.dec_to_int.bin a 1297 1350 W
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.WAREHOUSE_25_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\1297_1350
del /Q
%SL_LOAD_D%\Warehouse\1297_1350
  wtpccd1.c.dec_to_int.bin a 1351 1404 W
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.WAREHOUSE_26_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\1351_1404
del /Q
%SL_LOAD_D%\Warehouse\1351_1404

@rem ### District ###
  wtpccd1.c.dec_to_int.bin a 1 54 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_1_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\District\1_54
del /Q %SL_LOAD_D%\District\1_54
  wtpccd1.c.dec_to_int.bin a 55 108 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_2_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\District\55_108
del /Q %SL_LOAD_D%\District\55_108
  wtpccd1.c.dec_to_int.bin a 109 162 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_3_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\District\109_162
del /Q %SL_LOAD_D%\District\109_162
  wtpccd1.c.dec_to_int.bin a 163 216 D
%SL_LOAD_D%

```

```

  rdbloader -mi -i TPCC.DISTRICT_4_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\District\163_216
del /Q %SL_LOAD_D%\District\163_216
  wtpccd1.c.dec_to_int.bin a 217 270 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_5_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\District\217_270
del /Q %SL_LOAD_D%\District\217_270
  wtpccd1.c.dec_to_int.bin a 271 324 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_6_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\District\271_324
del /Q %SL_LOAD_D%\District\271_324
  wtpccd1.c.dec_to_int.bin a 325 378 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_7_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\District\325_378
del /Q %SL_LOAD_D%\District\325_378
  wtpccd1.c.dec_to_int.bin a 379 432 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_8_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\District\379_432
del /Q %SL_LOAD_D%\District\379_432
  wtpccd1.c.dec_to_int.bin a 433 486 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_9_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\District\433_486
del /Q %SL_LOAD_D%\District\433_486
  wtpccd1.c.dec_to_int.bin a 487 540 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_10_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\487_540
del /Q %SL_LOAD_D%\District\487_540
  wtpccd1.c.dec_to_int.bin a 541 594 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_11_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\541_594
del /Q %SL_LOAD_D%\District\541_594
  wtpccd1.c.dec_to_int.bin a 595 648 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_12_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\595_648
del /Q %SL_LOAD_D%\District\595_648
  wtpccd1.c.dec_to_int.bin a 649 702 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_13_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\649_702
del /Q %SL_LOAD_D%\District\649_702
  wtpccd1.c.dec_to_int.bin a 703 756 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_14_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\703_756
del /Q %SL_LOAD_D%\District\703_756
  wtpccd1.c.dec_to_int.bin a 757 810 D
%SL_LOAD_D%

```

```

  rdbloader -mi -i TPCC.DISTRICT_15_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\757_810
del /Q %SL_LOAD_D%\District\757_810
  wtpccd1.c.dec_to_int.bin a 811 864 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_16_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\811_864
del /Q %SL_LOAD_D%\District\811_864
  wtpccd1.c.dec_to_int.bin a 865 918 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_17_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\865_918
del /Q %SL_LOAD_D%\District\865_918
  wtpccd1.c.dec_to_int.bin a 919 972 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_18_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\919_972
del /Q %SL_LOAD_D%\District\919_972
  wtpccd1.c.dec_to_int.bin a 973 1026 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_19_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\973_1026
del /Q %SL_LOAD_D%\District\973_1026
  wtpccd1.c.dec_to_int.bin a 1027 1080 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_20_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\1027_1080
del /Q %SL_LOAD_D%\District\1027_1080
  wtpccd1.c.dec_to_int.bin a 1081 1134 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_21_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\1081_1134
del /Q %SL_LOAD_D%\District\1081_1134
  wtpccd1.c.dec_to_int.bin a 1135 1188 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_22_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\1135_1188
del /Q %SL_LOAD_D%\District\1135_1188
  wtpccd1.c.dec_to_int.bin a 1189 1242 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_23_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\1189_1242
del /Q %SL_LOAD_D%\District\1189_1242
  wtpccd1.c.dec_to_int.bin a 1243 1296 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_24_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\1243_1296
del /Q %SL_LOAD_D%\District\1243_1296
  wtpccd1.c.dec_to_int.bin a 1297 1350 D
%SL_LOAD_D%
  rdbloader -mi -i TPCC.DISTRICT_25_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\1297_1350
del /Q %SL_LOAD_D%\District\1297_1350
  wtpccd1.c.dec_to_int.bin a 1351 1404 D
%SL_LOAD_D%

```

```

rdbloader -mi -i TPCC.DISTRICT_26_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\1351_1404
del /Q %SL_LOAD_D%\District\1351_1404

@rem ### Item ###
wtpccd1.c.dec_to_int.bin a 1 32 I
%SL_LOAD_D%
rdbloader -mi -i TPCC.ITEM_1_DSI -
s %WK1_D% -n %SL_LOAD_D%\Item\data
del /Q %SL_LOAD_D%\Item\data

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 1 9 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_1_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\1_9
del /Q %SL_LOAD_D%\OrderLine\1_9
rdbloader -mi -i TPCC.ORDERLIN_1_DSI -
h -f 10 -s %WK1_D% %SL_LOAD_D%\Orders\1_9
del /Q %SL_LOAD_D%\Orders\1_9
rdbloader -mi -i
TPCC.NEWORDER_1_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\1_9
del /Q %SL_LOAD_D%\NewOrder\1_9
wtpccd1.c.dec_to_int.bin a 10 18 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_2_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\10_18
del /Q %SL_LOAD_D%\OrderLine\10_18
rdbloader -mi -i TPCC.ORDERLIN_2_DSI -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\10_18
del /Q %SL_LOAD_D%\Orders\10_18
rdbloader -mi -i
TPCC.NEWORDER_2_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\10_18
del /Q %SL_LOAD_D%\NewOrder\10_18
wtpccd1.c.dec_to_int.bin a 19 27 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_3_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\19_27
del /Q %SL_LOAD_D%\OrderLine\19_27
rdbloader -mi -i TPCC.ORDERLIN_3_DSI -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\19_27
del /Q %SL_LOAD_D%\Orders\19_27
rdbloader -mi -i
TPCC.NEWORDER_3_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\19_27
del /Q %SL_LOAD_D%\NewOrder\19_27
wtpccd1.c.dec_to_int.bin a 28 36 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_4_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\28_36
del /Q %SL_LOAD_D%\OrderLine\28_36
rdbloader -mi -i TPCC.ORDERLIN_4_DSI -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\28_36
del /Q %SL_LOAD_D%\Orders\28_36

```

```

rdbloader -mi -i
TPCC.NEWORDER_4_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\28_36
del /Q %SL_LOAD_D%\NewOrder\28_36
wtpccd1.c.dec_to_int.bin a 37 45 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_5_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\37_45
del /Q %SL_LOAD_D%\OrderLine\37_45
rdbloader -mi -i TPCC.ORDERLIN_5_DSI -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\37_45
del /Q %SL_LOAD_D%\Orders\37_45
rdbloader -mi -i
TPCC.NEWORDER_5_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\37_45
del /Q %SL_LOAD_D%\NewOrder\37_45
wtpccd1.c.dec_to_int.bin a 46 54 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_6_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\46_54
del /Q %SL_LOAD_D%\OrderLine\46_54
rdbloader -mi -i TPCC.ORDERLIN_6_DSI -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\46_54
del /Q %SL_LOAD_D%\Orders\46_54
rdbloader -mi -i
TPCC.NEWORDER_6_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\46_54
del /Q %SL_LOAD_D%\NewOrder\46_54
wtpccd1.c.dec_to_int.bin a 55 63 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_7_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\55_63
del /Q %SL_LOAD_D%\OrderLine\55_63
rdbloader -mi -i TPCC.ORDERLIN_7_DSI -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\55_63
del /Q %SL_LOAD_D%\Orders\55_63
rdbloader -mi -i
TPCC.NEWORDER_7_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\55_63
del /Q %SL_LOAD_D%\NewOrder\55_63
wtpccd1.c.dec_to_int.bin a 64 72 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_8_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\64_72
del /Q %SL_LOAD_D%\OrderLine\64_72
rdbloader -mi -i TPCC.ORDERLIN_8_DSI -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\64_72
del /Q %SL_LOAD_D%\Orders\64_72
rdbloader -mi -i
TPCC.NEWORDER_8_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\64_72
del /Q %SL_LOAD_D%\NewOrder\64_72
wtpccd1.c.dec_to_int.bin a 73 81 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_9_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\73_81
del /Q %SL_LOAD_D%\OrderLine\73_81

```

```

rdbloader -mi -i TPCC.ORDERLIN_9_DSI -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\73_81
del /Q %SL_LOAD_D%\Orders\73_81
rdbloader -mi -i
TPCC.NEWORDER_9_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\73_81
del /Q %SL_LOAD_D%\NewOrder\73_81

@echo sload_1404-01 sleep 30m .....
sleep 30m

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 1 27 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_1_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1_27
del /Q %SL_LOAD_D%\Stock\1_27

wtpccd1.c.dec_to_int.bin a 28 54 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_2_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\28_54
del /Q %SL_LOAD_D%\Stock\28_54

wtpccd1.c.dec_to_int.bin a 55 81 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_3_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\55_81
del /Q %SL_LOAD_D%\Stock\55_81

```

**File: sload\_1404-02.bat**

```

set SL_LOAD_D=i:\rdb\loaddata
set WK1_D=i:\rdb\sortwk1
set WK2_D=h:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 82 90 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_10_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\82_90
del /Q %SL_LOAD_D%\Customer\82_90
rdbloader -mi -i TPCC.HISTORY_10_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History\82_90
del /Q %SL_LOAD_D%\History\82_90
wtpccd1.c.dec_to_int.bin a 91 99 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_11_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\91_99
del /Q %SL_LOAD_D%\Customer\91_99
rdbloader -mi -i TPCC.HISTORY_11_DSI -
h -s %WK1_D% -n %SL_LOAD_D%\History\91_99
del /Q %SL_LOAD_D%\History\91_99
wtpccd1.c.dec_to_int.bin a 100 108 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_12_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\100_108

```

```

del /Q %SL_LOAD_D%\Customer\100_108
rdbloader -mi -i TPCC.HISTORY_12_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\100_108
del /Q %SL_LOAD_D%\History\100_108
wtpccd1.c.dec_to_int.bin a 109 117 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_13_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\109_117
del /Q %SL_LOAD_D%\Customer\109_117
rdbloader -mi -i TPCC.HISTORY_13_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\109_117
del /Q %SL_LOAD_D%\History\109_117
wtpccd1.c.dec_to_int.bin a 118 126 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_14_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\118_126
del /Q %SL_LOAD_D%\Customer\118_126
rdbloader -mi -i TPCC.HISTORY_14_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\118_126
del /Q %SL_LOAD_D%\History\118_126
wtpccd1.c.dec_to_int.bin a 127 135 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_15_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\127_135
del /Q %SL_LOAD_D%\Customer\127_135
rdbloader -mi -i TPCC.HISTORY_15_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\127_135
del /Q %SL_LOAD_D%\History\127_135
wtpccd1.c.dec_to_int.bin a 136 144 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_16_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\136_144
del /Q %SL_LOAD_D%\Customer\136_144
rdbloader -mi -i TPCC.HISTORY_16_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\136_144
del /Q %SL_LOAD_D%\History\136_144
wtpccd1.c.dec_to_int.bin a 145 153 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_17_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\145_153
del /Q %SL_LOAD_D%\Customer\145_153
rdbloader -mi -i TPCC.HISTORY_17_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\145_153
del /Q %SL_LOAD_D%\History\145_153
wtpccd1.c.dec_to_int.bin a 154 162 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_18_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\154_162
del /Q %SL_LOAD_D%\Customer\154_162
rdbloader -mi -i TPCC.HISTORY_18_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\154_162
del /Q %SL_LOAD_D%\History\154_162

```

@rem ### Orders ###

```

@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 82 90 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_10_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\82_90
del /Q %SL_LOAD_D%\OrderLine\82_90
rdbloader -mi -i TPCC.ORDERLIN_10_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\82_90
del /Q %SL_LOAD_D%\Orders\82_90
rdbloader -mi -i
TPCC.NEWORDER_10_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\82_90
del /Q %SL_LOAD_D%\NewOrder\82_90
wtpccd1.c.dec_to_int.bin a 91 99 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_11_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\91_99
del /Q %SL_LOAD_D%\OrderLine\91_99
rdbloader -mi -i TPCC.ORDERLIN_11_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\91_99
del /Q %SL_LOAD_D%\Orders\91_99
rdbloader -mi -i
TPCC.NEWORDER_11_DSI -h -f 20 -s
%WK1_D% -n %SL_LOAD_D%\NewOrder\91_99
del /Q %SL_LOAD_D%\NewOrder\91_99
wtpccd1.c.dec_to_int.bin a 100 108 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_12_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\100_108
del /Q %SL_LOAD_D%\OrderLine\100_108
rdbloader -mi -i TPCC.ORDERLIN_12_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\100_108
del /Q %SL_LOAD_D%\Orders\100_108
rdbloader -mi -i
TPCC.NEWORDER_12_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\100_108
del /Q %SL_LOAD_D%\NewOrder\100_108
wtpccd1.c.dec_to_int.bin a 109 117 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_13_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\109_117
del /Q %SL_LOAD_D%\OrderLine\109_117
rdbloader -mi -i TPCC.ORDERLIN_13_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\109_117
del /Q %SL_LOAD_D%\Orders\109_117
rdbloader -mi -i
TPCC.NEWORDER_13_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\109_117
del /Q %SL_LOAD_D%\NewOrder\109_117
wtpccd1.c.dec_to_int.bin a 118 126 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_14_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\118_126
del /Q %SL_LOAD_D%\OrderLine\118_126

```

```

rdbloader -mi -i TPCC.ORDERLIN_14_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\118_126
del /Q %SL_LOAD_D%\Orders\118_126
rdbloader -mi -i
TPCC.NEWORDER_14_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\118_126
del /Q %SL_LOAD_D%\NewOrder\118_126
wtpccd1.c.dec_to_int.bin a 127 135 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_15_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\127_135
del /Q %SL_LOAD_D%\OrderLine\127_135
rdbloader -mi -i TPCC.ORDERLIN_15_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\127_135
del /Q %SL_LOAD_D%\Orders\127_135
rdbloader -mi -i
TPCC.NEWORDER_15_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\127_135
del /Q %SL_LOAD_D%\NewOrder\127_135
wtpccd1.c.dec_to_int.bin a 136 144 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_16_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\136_144
del /Q %SL_LOAD_D%\OrderLine\136_144
rdbloader -mi -i TPCC.ORDERLIN_16_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\136_144
del /Q %SL_LOAD_D%\Orders\136_144
rdbloader -mi -i
TPCC.NEWORDER_16_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\136_144
del /Q %SL_LOAD_D%\NewOrder\136_144
wtpccd1.c.dec_to_int.bin a 145 153 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_17_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\145_153
del /Q %SL_LOAD_D%\OrderLine\145_153
rdbloader -mi -i TPCC.ORDERLIN_17_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\145_153
del /Q %SL_LOAD_D%\Orders\145_153
rdbloader -mi -i
TPCC.NEWORDER_17_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\145_153
del /Q %SL_LOAD_D%\NewOrder\145_153
wtpccd1.c.dec_to_int.bin a 154 162 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_18_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\154_162
del /Q %SL_LOAD_D%\OrderLine\154_162
rdbloader -mi -i TPCC.ORDERLIN_18_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\154_162
del /Q %SL_LOAD_D%\Orders\154_162
rdbloader -mi -i
TPCC.NEWORDER_18_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\154_162

```

TPC Benchmark C Full Disclosure

```

del /Q %SL_LOAD_D%\NewOrder\154_162

@echo sload_1404-02 sleep 30m .....
sleep 30m

@rem ### Stock ###
    wtpccd1.c.dec_to_int.bin a 82 108 S
%SL_LOAD_D%
    rdbloader -mi -i TPCC.STOCK_4_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\82_108
    del /Q %SL_LOAD_D%\Stock\82_108

    wtpccd1.c.dec_to_int.bin a 109 135 S
%SL_LOAD_D%
    rdbloader -mi -i TPCC.STOCK_5_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\109_135
    del /Q %SL_LOAD_D%\Stock\109_135

    wtpccd1.c.dec_to_int.bin a 136 162 S
%SL_LOAD_D%
    rdbloader -mi -i TPCC.STOCK_6_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\136_162
    del /Q %SL_LOAD_D%\Stock\136_162

```

**File: sload\_1404-03.bat**

```

set SL_LOAD_D=j:\rdb\loaddata
set WK1_D=j:\rdb\sortwk1
set WK2_D=k:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
    wtpccd1.c.dec_to_int.bin a 163 171 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_19_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\163_171
    del /Q %SL_LOAD_D%\Customer\163_171
    rdbloader -mi -i TPCC.HISTORY_19_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\163_171
    del /Q %SL_LOAD_D%\History\163_171
    wtpccd1.c.dec_to_int.bin a 172 180 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_20_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\172_180
    del /Q %SL_LOAD_D%\Customer\172_180
    rdbloader -mi -i TPCC.HISTORY_20_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\172_180
    del /Q %SL_LOAD_D%\History\172_180
    wtpccd1.c.dec_to_int.bin a 181 189 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_21_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\181_189
    del /Q %SL_LOAD_D%\Customer\181_189
    rdbloader -mi -i TPCC.HISTORY_21_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\181_189
    del /Q %SL_LOAD_D%\History\181_189

```

```

wtpccd1.c.dec_to_int.bin a 190 198 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_22_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\190_198
    del /Q %SL_LOAD_D%\Customer\190_198
    rdbloader -mi -i TPCC.HISTORY_22_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\190_198
    del /Q %SL_LOAD_D%\History\190_198
    wtpccd1.c.dec_to_int.bin a 199 207 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_23_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\199_207
    del /Q %SL_LOAD_D%\Customer\199_207
    rdbloader -mi -i TPCC.HISTORY_23_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\199_207
    del /Q %SL_LOAD_D%\History\199_207
    wtpccd1.c.dec_to_int.bin a 208 216 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_24_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\208_216
    del /Q %SL_LOAD_D%\Customer\208_216
    rdbloader -mi -i TPCC.HISTORY_24_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\208_216
    del /Q %SL_LOAD_D%\History\208_216
    wtpccd1.c.dec_to_int.bin a 217 225 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_25_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\217_225
    del /Q %SL_LOAD_D%\Customer\217_225
    rdbloader -mi -i TPCC.HISTORY_25_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\217_225
    del /Q %SL_LOAD_D%\History\217_225
    wtpccd1.c.dec_to_int.bin a 226 234 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_26_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\226_234
    del /Q %SL_LOAD_D%\Customer\226_234
    rdbloader -mi -i TPCC.HISTORY_26_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\226_234
    del /Q %SL_LOAD_D%\History\226_234
    wtpccd1.c.dec_to_int.bin a 235 243 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_27_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\235_243
    del /Q %SL_LOAD_D%\Customer\235_243
    rdbloader -mi -i TPCC.HISTORY_27_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\235_243
    del /Q %SL_LOAD_D%\History\235_243

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
    wtpccd1.c.dec_to_int.bin a 163 171 O
%SL_LOAD_D%

```

```

    rdbloader -mi -i TPCC.ORDERLIN_19_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\163_171
    del /Q %SL_LOAD_D%\OrderLine\163_171
    rdbloader -mi -i TPCC.ORDERLIN_19_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\163_171
    del /Q %SL_LOAD_D%\Orders\163_171
    rdbloader -mi -i
TPCC.NEWORDER_19_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\163_171
    del /Q %SL_LOAD_D%\NewOrder\163_171
    wtpccd1.c.dec_to_int.bin a 172 180 O
%SL_LOAD_D%
    rdbloader -mi -i TPCC.ORDERLIN_20_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\172_180
    del /Q %SL_LOAD_D%\OrderLine\172_180
    rdbloader -mi -i TPCC.ORDERLIN_20_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\172_180
    del /Q %SL_LOAD_D%\Orders\172_180
    rdbloader -mi -i
TPCC.NEWORDER_20_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\172_180
    del /Q %SL_LOAD_D%\NewOrder\172_180
    wtpccd1.c.dec_to_int.bin a 181 189 O
%SL_LOAD_D%
    rdbloader -mi -i TPCC.ORDERLIN_21_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\181_189
    del /Q %SL_LOAD_D%\OrderLine\181_189
    rdbloader -mi -i TPCC.ORDERLIN_21_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\181_189
    del /Q %SL_LOAD_D%\Orders\181_189
    rdbloader -mi -i
TPCC.NEWORDER_21_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\181_189
    del /Q %SL_LOAD_D%\NewOrder\181_189
    wtpccd1.c.dec_to_int.bin a 190 198 O
%SL_LOAD_D%
    rdbloader -mi -i TPCC.ORDERLIN_22_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\190_198
    del /Q %SL_LOAD_D%\OrderLine\190_198
    rdbloader -mi -i TPCC.ORDERLIN_22_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\190_198
    del /Q %SL_LOAD_D%\Orders\190_198
    rdbloader -mi -i
TPCC.NEWORDER_22_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\190_198
    del /Q %SL_LOAD_D%\NewOrder\190_198
    wtpccd1.c.dec_to_int.bin a 199 207 O
%SL_LOAD_D%
    rdbloader -mi -i TPCC.ORDERLIN_23_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\199_207
    del /Q %SL_LOAD_D%\OrderLine\199_207
    rdbloader -mi -i TPCC.ORDERLIN_23_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\199_207
    del /Q %SL_LOAD_D%\Orders\199_207

```

```

rdbloader -mi -i
TPCC.NEWORDER_23_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\199_207
del /Q %SL_LOAD_D%\NewOrder\199_207
wtpccd1.c.dec_to_int.bin a 208 216 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_24_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\208_216
del /Q %SL_LOAD_D%\OrderLine\208_216
rdbloader -mi -i TPCC.ORDER_24_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\208_216
del /Q %SL_LOAD_D%\Orders\208_216
rdbloader -mi -i
TPCC.NEWORDER_24_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\208_216
del /Q %SL_LOAD_D%\NewOrder\208_216
wtpccd1.c.dec_to_int.bin a 217 225 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_25_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\217_225
del /Q %SL_LOAD_D%\OrderLine\217_225
rdbloader -mi -i TPCC.ORDER_25_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\217_225
del /Q %SL_LOAD_D%\Orders\217_225
rdbloader -mi -i
TPCC.NEWORDER_25_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\217_225
del /Q %SL_LOAD_D%\NewOrder\217_225
wtpccd1.c.dec_to_int.bin a 226 234 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_26_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\226_234
del /Q %SL_LOAD_D%\OrderLine\226_234
rdbloader -mi -i TPCC.ORDER_26_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\226_234
del /Q %SL_LOAD_D%\Orders\226_234
rdbloader -mi -i
TPCC.NEWORDER_26_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\226_234
del /Q %SL_LOAD_D%\NewOrder\226_234
wtpccd1.c.dec_to_int.bin a 235 243 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_27_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\235_243
del /Q %SL_LOAD_D%\OrderLine\235_243
rdbloader -mi -i TPCC.ORDER_27_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\235_243
del /Q %SL_LOAD_D%\Orders\235_243
rdbloader -mi -i
TPCC.NEWORDER_27_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\235_243
del /Q %SL_LOAD_D%\NewOrder\235_243
@echo sload_1404-03 sleep 30m .....

```

```

sleep 30m
@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 163 189 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_7_DSI
-s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\163_189
del /Q %SL_LOAD_D%\Stock\163_189
wtpccd1.c.dec_to_int.bin a 190 216 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_8_DSI
-s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\190_216
del /Q %SL_LOAD_D%\Stock\190_216
wtpccd1.c.dec_to_int.bin a 217 243 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_9_DSI
-s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\217_243
del /Q %SL_LOAD_D%\Stock\217_243
File: sload_1404-04.bat
set SL_LOAD_D=k:\rdb\loaddata
set WK1_D=k:\rdb\sortwk1
set WK2_D=j:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4
@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 244 252 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_28_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\244_252
del /Q %SL_LOAD_D%\Customer\244_252
rdbloader -mi -i TPCC.HISTORY_28_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\244_252
del /Q %SL_LOAD_D%\History\244_252
wtpccd1.c.dec_to_int.bin a 253 261 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_29_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\253_261
del /Q %SL_LOAD_D%\Customer\253_261
rdbloader -mi -i TPCC.HISTORY_29_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\253_261
del /Q %SL_LOAD_D%\History\253_261
wtpccd1.c.dec_to_int.bin a 262 270 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_30_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\262_270
del /Q %SL_LOAD_D%\Customer\262_270
rdbloader -mi -i TPCC.HISTORY_30_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\262_270
del /Q %SL_LOAD_D%\History\262_270
wtpccd1.c.dec_to_int.bin a 271 279 C
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.CUSTOMER_31_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\271_279
del /Q %SL_LOAD_D%\Customer\271_279
rdbloader -mi -i TPCC.HISTORY_31_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\271_279
del /Q %SL_LOAD_D%\History\271_279
wtpccd1.c.dec_to_int.bin a 280 288 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_32_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\280_288
del /Q %SL_LOAD_D%\Customer\280_288
rdbloader -mi -i TPCC.HISTORY_32_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\280_288
del /Q %SL_LOAD_D%\History\280_288
wtpccd1.c.dec_to_int.bin a 289 297 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_33_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\289_297
del /Q %SL_LOAD_D%\Customer\289_297
rdbloader -mi -i TPCC.HISTORY_33_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\289_297
del /Q %SL_LOAD_D%\History\289_297
wtpccd1.c.dec_to_int.bin a 298 306 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_34_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\298_306
del /Q %SL_LOAD_D%\Customer\298_306
rdbloader -mi -i TPCC.HISTORY_34_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\298_306
del /Q %SL_LOAD_D%\History\298_306
wtpccd1.c.dec_to_int.bin a 307 315 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_35_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\307_315
del /Q %SL_LOAD_D%\Customer\307_315
rdbloader -mi -i TPCC.HISTORY_35_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\307_315
del /Q %SL_LOAD_D%\History\307_315
wtpccd1.c.dec_to_int.bin a 316 324 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_36_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\316_324
del /Q %SL_LOAD_D%\Customer\316_324
rdbloader -mi -i TPCC.HISTORY_36_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\316_324
del /Q %SL_LOAD_D%\History\316_324
@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 244 252 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_28_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\244_252

```

```

del /Q %SL_LOAD_D%\OrderLine\244_252
rdbloader -mi -i TPCC.ORDERS_28_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\244_252
del /Q %SL_LOAD_D%\Orders\244_252
rdbloader -mi -i
TPCC.NEWORDER_28_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\244_252
del /Q %SL_LOAD_D%\NewOrder\244_252
wtpccd1.c.dec_to_int.bin a 253 261 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_29_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\253_261
del /Q %SL_LOAD_D%\OrderLine\253_261
rdbloader -mi -i TPCC.ORDERS_29_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\253_261
del /Q %SL_LOAD_D%\Orders\253_261
rdbloader -mi -i
TPCC.NEWORDER_29_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\253_261
del /Q %SL_LOAD_D%\NewOrder\253_261
wtpccd1.c.dec_to_int.bin a 262 270 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_30_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\262_270
del /Q %SL_LOAD_D%\OrderLine\262_270
rdbloader -mi -i TPCC.ORDERS_30_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\262_270
del /Q %SL_LOAD_D%\Orders\262_270
rdbloader -mi -i
TPCC.NEWORDER_30_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\262_270
del /Q %SL_LOAD_D%\NewOrder\262_270
wtpccd1.c.dec_to_int.bin a 271 279 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_31_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\271_279
del /Q %SL_LOAD_D%\OrderLine\271_279
rdbloader -mi -i TPCC.ORDERS_31_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\271_279
del /Q %SL_LOAD_D%\Orders\271_279
rdbloader -mi -i
TPCC.NEWORDER_31_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\271_279
del /Q %SL_LOAD_D%\NewOrder\271_279
wtpccd1.c.dec_to_int.bin a 280 288 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_32_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\280_288
del /Q %SL_LOAD_D%\OrderLine\280_288
rdbloader -mi -i TPCC.ORDERS_32_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\280_288
del /Q %SL_LOAD_D%\Orders\280_288
rdbloader -mi -i
TPCC.NEWORDER_32_DSI -h -f 20 -s

```

```

%WK1_D% -n
%SL_LOAD_D%\NewOrder\280_288
del /Q %SL_LOAD_D%\NewOrder\280_288
wtpccd1.c.dec_to_int.bin a 289 297 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_33_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\289_297
del /Q %SL_LOAD_D%\OrderLine\289_297
rdbloader -mi -i TPCC.ORDERS_33_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\289_297
del /Q %SL_LOAD_D%\Orders\289_297
rdbloader -mi -i
TPCC.NEWORDER_33_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\289_297
del /Q %SL_LOAD_D%\NewOrder\289_297
wtpccd1.c.dec_to_int.bin a 298 306 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_34_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\298_306
del /Q %SL_LOAD_D%\OrderLine\298_306
rdbloader -mi -i TPCC.ORDERS_34_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\298_306
del /Q %SL_LOAD_D%\Orders\298_306
rdbloader -mi -i
TPCC.NEWORDER_34_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\298_306
del /Q %SL_LOAD_D%\NewOrder\298_306
wtpccd1.c.dec_to_int.bin a 307 315 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_35_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\307_315
del /Q %SL_LOAD_D%\OrderLine\307_315
rdbloader -mi -i TPCC.ORDERS_35_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\307_315
del /Q %SL_LOAD_D%\Orders\307_315
rdbloader -mi -i
TPCC.NEWORDER_35_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\307_315
del /Q %SL_LOAD_D%\NewOrder\307_315
wtpccd1.c.dec_to_int.bin a 316 324 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_36_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\316_324
del /Q %SL_LOAD_D%\OrderLine\316_324
rdbloader -mi -i TPCC.ORDERS_36_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\316_324
del /Q %SL_LOAD_D%\Orders\316_324
rdbloader -mi -i
TPCC.NEWORDER_36_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\316_324
del /Q %SL_LOAD_D%\NewOrder\316_324

```

@echo sload\_1404-04 sleep 30m .....  
sleep 30m

```

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 244 270 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_10_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\244_270
del /Q %SL_LOAD_D%\Stock\244_270

wtpccd1.c.dec_to_int.bin a 271 297 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_11_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\271_297
del /Q %SL_LOAD_D%\Stock\271_297

wtpccd1.c.dec_to_int.bin a 298 324 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_12_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\298_324
del /Q %SL_LOAD_D%\Stock\298_324

```

**File: sload\_1404-05.bat**

```

set SL_LOAD_D=l:\rdb\loaddata
set WK1_D=l:\rdb\sortwk1
set WK2_D=m:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

```

```

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 325 333 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_37_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\325_333
del /Q %SL_LOAD_D%\Customer\325_333
rdbloader -mi -i TPCC.HISTORY_37_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\325_333
del /Q %SL_LOAD_D%\History\325_333
wtpccd1.c.dec_to_int.bin a 334 342 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_38_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\334_342
del /Q %SL_LOAD_D%\Customer\334_342
rdbloader -mi -i TPCC.HISTORY_38_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\334_342
del /Q %SL_LOAD_D%\History\334_342
wtpccd1.c.dec_to_int.bin a 343 351 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_39_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\343_351
del /Q %SL_LOAD_D%\Customer\343_351
rdbloader -mi -i TPCC.HISTORY_39_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\343_351
del /Q %SL_LOAD_D%\History\343_351

```

```

wtpccd1.c.dec_to_int.bin a 352 360 C
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.CUSTOMER_40_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\352_360
  del /Q %SL_LOAD_D%\Customer\352_360
  rdbloader -mi -i TPCC.HISTORY_40_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\352_360
  del /Q %SL_LOAD_D%\History\352_360
wtpccd1.c.dec_to_int.bin a 361 369 C
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.CUSTOMER_41_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\361_369
  del /Q %SL_LOAD_D%\Customer\361_369
  rdbloader -mi -i TPCC.HISTORY_41_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\361_369
  del /Q %SL_LOAD_D%\History\361_369
wtpccd1.c.dec_to_int.bin a 370 378 C
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.CUSTOMER_42_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\370_378
  del /Q %SL_LOAD_D%\Customer\370_378
  rdbloader -mi -i TPCC.HISTORY_42_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\370_378
  del /Q %SL_LOAD_D%\History\370_378
wtpccd1.c.dec_to_int.bin a 379 387 C
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.CUSTOMER_43_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\379_387
  del /Q %SL_LOAD_D%\Customer\379_387
  rdbloader -mi -i TPCC.HISTORY_43_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\379_387
  del /Q %SL_LOAD_D%\History\379_387
wtpccd1.c.dec_to_int.bin a 388 396 C
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.CUSTOMER_44_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\388_396
  del /Q %SL_LOAD_D%\Customer\388_396
  rdbloader -mi -i TPCC.HISTORY_44_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\388_396
  del /Q %SL_LOAD_D%\History\388_396
wtpccd1.c.dec_to_int.bin a 397 405 C
%SL_LOAD_D%
  rdbloader -mi -i
TPCC.CUSTOMER_45_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\397_405
  del /Q %SL_LOAD_D%\Customer\397_405
  rdbloader -mi -i TPCC.HISTORY_45_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\397_405
  del /Q %SL_LOAD_D%\History\397_405

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 325 333 O
%SL_LOAD_D%

```

```

  rdbloader -mi -i TPCC.ORDERLIN_37_DSI
  -h -s %WK1_D%
%SL_LOAD_D%\OrderLine\325_333
  del /Q %SL_LOAD_D%\OrderLine\325_333
  rdbloader -mi -i TPCC.ORDER_37_DSI
  -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\325_333
  del /Q %SL_LOAD_D%\Orders\325_333
  rdbloader -mi -i
TPCC.NEWORDER_37_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\325_333
  del /Q %SL_LOAD_D%\NewOrder\325_333
wtpccd1.c.dec_to_int.bin a 334 342 O
%SL_LOAD_D%
  rdbloader -mi -i TPCC.ORDERLIN_38_DSI
  -h -s %WK1_D%
%SL_LOAD_D%\OrderLine\334_342
  del /Q %SL_LOAD_D%\OrderLine\334_342
  rdbloader -mi -i TPCC.ORDER_38_DSI
  -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\334_342
  del /Q %SL_LOAD_D%\Orders\334_342
  rdbloader -mi -i
TPCC.NEWORDER_38_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\334_342
  del /Q %SL_LOAD_D%\NewOrder\334_342
wtpccd1.c.dec_to_int.bin a 343 351 O
%SL_LOAD_D%
  rdbloader -mi -i TPCC.ORDERLIN_39_DSI
  -h -s %WK1_D%
%SL_LOAD_D%\OrderLine\343_351
  del /Q %SL_LOAD_D%\OrderLine\343_351
  rdbloader -mi -i TPCC.ORDER_39_DSI
  -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\343_351
  del /Q %SL_LOAD_D%\Orders\343_351
  rdbloader -mi -i
TPCC.NEWORDER_39_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\343_351
  del /Q %SL_LOAD_D%\NewOrder\343_351
wtpccd1.c.dec_to_int.bin a 352 360 O
%SL_LOAD_D%
  rdbloader -mi -i TPCC.ORDERLIN_40_DSI
  -h -s %WK1_D%
%SL_LOAD_D%\OrderLine\352_360
  del /Q %SL_LOAD_D%\OrderLine\352_360
  rdbloader -mi -i TPCC.ORDER_40_DSI
  -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\352_360
  del /Q %SL_LOAD_D%\Orders\352_360
  rdbloader -mi -i
TPCC.NEWORDER_40_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\352_360
  del /Q %SL_LOAD_D%\NewOrder\352_360
wtpccd1.c.dec_to_int.bin a 361 369 O
%SL_LOAD_D%
  rdbloader -mi -i TPCC.ORDERLIN_41_DSI
  -h -s %WK1_D%
%SL_LOAD_D%\OrderLine\361_369
  del /Q %SL_LOAD_D%\OrderLine\361_369
  rdbloader -mi -i TPCC.ORDER_41_DSI
  -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\361_369
  del /Q %SL_LOAD_D%\Orders\361_369

```

```

  rdbloader -mi -i
TPCC.NEWORDER_41_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\361_369
  del /Q %SL_LOAD_D%\NewOrder\361_369
wtpccd1.c.dec_to_int.bin a 370 378 O
%SL_LOAD_D%
  rdbloader -mi -i TPCC.ORDERLIN_42_DSI
  -h -s %WK1_D%
%SL_LOAD_D%\OrderLine\370_378
  del /Q %SL_LOAD_D%\OrderLine\370_378
  rdbloader -mi -i TPCC.ORDER_42_DSI
  -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\370_378
  del /Q %SL_LOAD_D%\Orders\370_378
  rdbloader -mi -i
TPCC.NEWORDER_42_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\370_378
  del /Q %SL_LOAD_D%\NewOrder\370_378
wtpccd1.c.dec_to_int.bin a 379 387 O
%SL_LOAD_D%
  rdbloader -mi -i TPCC.ORDERLIN_43_DSI
  -h -s %WK1_D%
%SL_LOAD_D%\OrderLine\379_387
  del /Q %SL_LOAD_D%\OrderLine\379_387
  rdbloader -mi -i TPCC.ORDER_43_DSI
  -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\379_387
  del /Q %SL_LOAD_D%\Orders\379_387
  rdbloader -mi -i
TPCC.NEWORDER_43_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\379_387
  del /Q %SL_LOAD_D%\NewOrder\379_387
wtpccd1.c.dec_to_int.bin a 388 396 O
%SL_LOAD_D%
  rdbloader -mi -i TPCC.ORDERLIN_44_DSI
  -h -s %WK1_D%
%SL_LOAD_D%\OrderLine\388_396
  del /Q %SL_LOAD_D%\OrderLine\388_396
  rdbloader -mi -i TPCC.ORDER_44_DSI
  -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\388_396
  del /Q %SL_LOAD_D%\Orders\388_396
  rdbloader -mi -i
TPCC.NEWORDER_44_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\388_396
  del /Q %SL_LOAD_D%\NewOrder\388_396
wtpccd1.c.dec_to_int.bin a 397 405 O
%SL_LOAD_D%
  rdbloader -mi -i TPCC.ORDERLIN_45_DSI
  -h -s %WK1_D%
%SL_LOAD_D%\OrderLine\397_405
  del /Q %SL_LOAD_D%\OrderLine\397_405
  rdbloader -mi -i TPCC.ORDER_45_DSI
  -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\397_405
  del /Q %SL_LOAD_D%\Orders\397_405
  rdbloader -mi -i
TPCC.NEWORDER_45_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\397_405
  del /Q %SL_LOAD_D%\NewOrder\397_405

@echo sload_1404-05 sleep 30m ....

```



sleep 30m

@rem ### Stock ###

```
wtpccd1.c.dec_to_int.bin a 325 351 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_13_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\325_351
del /Q %SL_LOAD_D%\Stock\325_351
```

```
wtpccd1.c.dec_to_int.bin a 352 378 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_14_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\352_378
del /Q %SL_LOAD_D%\Stock\352_378
```

```
wtpccd1.c.dec_to_int.bin a 379 405 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_15_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\379_405
del /Q %SL_LOAD_D%\Stock\379_405
```

**File: sload\_1404-06.bat**

set SL\_LOAD\_D=m:\rdbloaddata

set WK1\_D=m:\rdb\sortwk1

set WK2\_D=l:\rdb\sortwk2

set WK3\_D=x:\rdb\sortwk3

set WK4\_D=x:\rdb\sortwk4

@rem ### Customer ###

@rem ### History ###

```
wtpccd1.c.dec_to_int.bin a 406 414 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_46_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\406_414
del /Q %SL_LOAD_D%\Customer\406_414
rdbloader -mi -i TPCC.HISTORY_46_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\406_414
del /Q %SL_LOAD_D%\History\406_414
wtpccd1.c.dec_to_int.bin a 415 423 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_47_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\415_423
del /Q %SL_LOAD_D%\Customer\415_423
rdbloader -mi -i TPCC.HISTORY_47_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\415_423
del /Q %SL_LOAD_D%\History\415_423
wtpccd1.c.dec_to_int.bin a 424 432 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_48_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\424_432
del /Q %SL_LOAD_D%\Customer\424_432
rdbloader -mi -i TPCC.HISTORY_48_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\424_432
del /Q %SL_LOAD_D%\History\424_432
```

```
wtpccd1.c.dec_to_int.bin a 433 441 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_49_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\433_441
del /Q %SL_LOAD_D%\Customer\433_441
rdbloader -mi -i TPCC.HISTORY_49_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\433_441
del /Q %SL_LOAD_D%\History\433_441
wtpccd1.c.dec_to_int.bin a 442 450 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_50_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\442_450
del /Q %SL_LOAD_D%\Customer\442_450
rdbloader -mi -i TPCC.HISTORY_50_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\442_450
del /Q %SL_LOAD_D%\History\442_450
wtpccd1.c.dec_to_int.bin a 451 459 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_51_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\451_459
del /Q %SL_LOAD_D%\Customer\451_459
rdbloader -mi -i TPCC.HISTORY_51_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\451_459
del /Q %SL_LOAD_D%\History\451_459
wtpccd1.c.dec_to_int.bin a 460 468 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_52_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\460_468
del /Q %SL_LOAD_D%\Customer\460_468
rdbloader -mi -i TPCC.HISTORY_52_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\460_468
del /Q %SL_LOAD_D%\History\460_468
wtpccd1.c.dec_to_int.bin a 469 477 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_53_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\469_477
del /Q %SL_LOAD_D%\Customer\469_477
rdbloader -mi -i TPCC.HISTORY_53_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\469_477
del /Q %SL_LOAD_D%\History\469_477
wtpccd1.c.dec_to_int.bin a 478 486 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_54_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\478_486
del /Q %SL_LOAD_D%\Customer\478_486
rdbloader -mi -i TPCC.HISTORY_54_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\478_486
del /Q %SL_LOAD_D%\History\478_486
```

@rem ### Orders ###

@rem ### OrderLine ###

@rem ### NewOrder ###

```
wtpccd1.c.dec_to_int.bin a 406 414 O
%SL_LOAD_D%
```

```
rdbloader -mi -i TPCC.ORDERLIN_46_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\406_414
del /Q %SL_LOAD_D%\OrderLine\406_414
rdbloader -mi -i TPCC.ORDERS_46_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\406_414
del /Q %SL_LOAD_D%\Orders\406_414
rdbloader -mi -i
TPCC.NEWORDER_46_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\406_414
del /Q %SL_LOAD_D%\NewOrder\406_414
wtpccd1.c.dec_to_int.bin a 415 423 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_47_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\415_423
del /Q %SL_LOAD_D%\OrderLine\415_423
rdbloader -mi -i TPCC.ORDERS_47_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\415_423
del /Q %SL_LOAD_D%\Orders\415_423
rdbloader -mi -i
TPCC.NEWORDER_47_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\415_423
del /Q %SL_LOAD_D%\NewOrder\415_423
wtpccd1.c.dec_to_int.bin a 424 432 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_48_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\424_432
del /Q %SL_LOAD_D%\OrderLine\424_432
rdbloader -mi -i TPCC.ORDERS_48_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\424_432
del /Q %SL_LOAD_D%\Orders\424_432
rdbloader -mi -i
TPCC.NEWORDER_48_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\424_432
del /Q %SL_LOAD_D%\NewOrder\424_432
wtpccd1.c.dec_to_int.bin a 433 441 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_49_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\433_441
del /Q %SL_LOAD_D%\OrderLine\433_441
rdbloader -mi -i TPCC.ORDERS_49_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\433_441
del /Q %SL_LOAD_D%\Orders\433_441
rdbloader -mi -i
TPCC.NEWORDER_49_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\433_441
del /Q %SL_LOAD_D%\NewOrder\433_441
wtpccd1.c.dec_to_int.bin a 442 450 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_50_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\442_450
del /Q %SL_LOAD_D%\OrderLine\442_450
rdbloader -mi -i TPCC.ORDERS_50_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\442_450
del /Q %SL_LOAD_D%\Orders\442_450
```

```

rdbloader -mi -i
TPCC.NEWORDER_50_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\442_450
del /Q %SL_LOAD_D%\NewOrder\442_450
wtpccd1.c.dec_to_int.bin a 451 459 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_51_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\451_459
del /Q %SL_LOAD_D%\OrderLine\451_459
rdbloader -mi -i TPCC.ORDER_51_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\451_459
del /Q %SL_LOAD_D%\Orders\451_459
rdbloader -mi -i
TPCC.NEWORDER_51_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\451_459
del /Q %SL_LOAD_D%\NewOrder\451_459
wtpccd1.c.dec_to_int.bin a 460 468 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_52_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\460_468
del /Q %SL_LOAD_D%\OrderLine\460_468
rdbloader -mi -i TPCC.ORDER_52_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\460_468
del /Q %SL_LOAD_D%\Orders\460_468
rdbloader -mi -i
TPCC.NEWORDER_52_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\460_468
del /Q %SL_LOAD_D%\NewOrder\460_468
wtpccd1.c.dec_to_int.bin a 469 477 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_53_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\469_477
del /Q %SL_LOAD_D%\OrderLine\469_477
rdbloader -mi -i TPCC.ORDER_53_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\469_477
del /Q %SL_LOAD_D%\Orders\469_477
rdbloader -mi -i
TPCC.NEWORDER_53_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\469_477
del /Q %SL_LOAD_D%\NewOrder\469_477
wtpccd1.c.dec_to_int.bin a 478 486 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_54_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\478_486
del /Q %SL_LOAD_D%\OrderLine\478_486
rdbloader -mi -i TPCC.ORDER_54_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\478_486
del /Q %SL_LOAD_D%\Orders\478_486
rdbloader -mi -i
TPCC.NEWORDER_54_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\478_486
del /Q %SL_LOAD_D%\NewOrder\478_486
@echo sload_1404-06 sleep 30m .....

```

```

sleep 30m
@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 406 432 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_16_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\406_432
del /Q %SL_LOAD_D%\Stock\406_432
wtpccd1.c.dec_to_int.bin a 433 459 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_17_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\433_459
del /Q %SL_LOAD_D%\Stock\433_459
wtpccd1.c.dec_to_int.bin a 460 486 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_18_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\460_486
del /Q %SL_LOAD_D%\Stock\460_486
File: sload_1404-07.bat
set SL_LOAD_D=y:\rdb\loaddata
set WK1_D=y:\rdb\sortwk1
set WK2_D=o:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4
@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 487 495 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_55_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\487_495
del /Q %SL_LOAD_D%\Customer\487_495
rdbloader -mi -i TPCC.HISTORY_55_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\487_495
del /Q %SL_LOAD_D%\History\487_495
wtpccd1.c.dec_to_int.bin a 496 504 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_56_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\496_504
del /Q %SL_LOAD_D%\Customer\496_504
rdbloader -mi -i TPCC.HISTORY_56_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\496_504
del /Q %SL_LOAD_D%\History\496_504
wtpccd1.c.dec_to_int.bin a 505 513 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_57_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\505_513
del /Q %SL_LOAD_D%\Customer\505_513
rdbloader -mi -i TPCC.HISTORY_57_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\505_513
del /Q %SL_LOAD_D%\History\505_513

```

```

wtpccd1.c.dec_to_int.bin a 514 522 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_58_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\514_522
del /Q %SL_LOAD_D%\Customer\514_522
rdbloader -mi -i TPCC.HISTORY_58_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\514_522
del /Q %SL_LOAD_D%\History\514_522
wtpccd1.c.dec_to_int.bin a 523 531 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_59_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\523_531
del /Q %SL_LOAD_D%\Customer\523_531
rdbloader -mi -i TPCC.HISTORY_59_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\523_531
del /Q %SL_LOAD_D%\History\523_531
wtpccd1.c.dec_to_int.bin a 532 540 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_60_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\532_540
del /Q %SL_LOAD_D%\Customer\532_540
rdbloader -mi -i TPCC.HISTORY_60_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\532_540
del /Q %SL_LOAD_D%\History\532_540
wtpccd1.c.dec_to_int.bin a 541 549 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_61_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\541_549
del /Q %SL_LOAD_D%\Customer\541_549
rdbloader -mi -i TPCC.HISTORY_61_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\541_549
del /Q %SL_LOAD_D%\History\541_549
wtpccd1.c.dec_to_int.bin a 550 558 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_62_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\550_558
del /Q %SL_LOAD_D%\Customer\550_558
rdbloader -mi -i TPCC.HISTORY_62_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\550_558
del /Q %SL_LOAD_D%\History\550_558
wtpccd1.c.dec_to_int.bin a 559 567 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_63_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\559_567
del /Q %SL_LOAD_D%\Customer\559_567
rdbloader -mi -i TPCC.HISTORY_63_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\559_567
del /Q %SL_LOAD_D%\History\559_567
@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 487 495 O
%SL_LOAD_D%

```

```

rdbloader -mi -i TPCC.ORDERLIN_55_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\487_495
del /Q %SL_LOAD_D%\OrderLine\487_495
rdbloader -mi -i TPCC.ORDER_55_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\487_495
del /Q %SL_LOAD_D%\Orders\487_495
rdbloader -mi -i
TPCC.NEWORDER_55_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\487_495
del /Q %SL_LOAD_D%\NewOrder\487_495
wtpccd1.c.dec_to_int.bin a 496 504 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_56_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\496_504
del /Q %SL_LOAD_D%\OrderLine\496_504
rdbloader -mi -i TPCC.ORDER_56_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\496_504
del /Q %SL_LOAD_D%\Orders\496_504
rdbloader -mi -i
TPCC.NEWORDER_56_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\496_504
del /Q %SL_LOAD_D%\NewOrder\496_504
wtpccd1.c.dec_to_int.bin a 505 513 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_57_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\505_513
del /Q %SL_LOAD_D%\OrderLine\505_513
rdbloader -mi -i TPCC.ORDER_57_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\505_513
del /Q %SL_LOAD_D%\Orders\505_513
rdbloader -mi -i
TPCC.NEWORDER_57_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\505_513
del /Q %SL_LOAD_D%\NewOrder\505_513
wtpccd1.c.dec_to_int.bin a 514 522 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_58_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\514_522
del /Q %SL_LOAD_D%\OrderLine\514_522
rdbloader -mi -i TPCC.ORDER_58_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\514_522
del /Q %SL_LOAD_D%\Orders\514_522
rdbloader -mi -i
TPCC.NEWORDER_58_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\514_522
del /Q %SL_LOAD_D%\NewOrder\514_522
wtpccd1.c.dec_to_int.bin a 523 531 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_59_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\523_531
del /Q %SL_LOAD_D%\OrderLine\523_531
rdbloader -mi -i TPCC.ORDER_59_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\523_531
del /Q %SL_LOAD_D%\Orders\523_531

```

```

rdbloader -mi -i
TPCC.NEWORDER_59_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\523_531
del /Q %SL_LOAD_D%\NewOrder\523_531
wtpccd1.c.dec_to_int.bin a 532 540 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_60_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\532_540
del /Q %SL_LOAD_D%\OrderLine\532_540
rdbloader -mi -i TPCC.ORDER_60_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\532_540
del /Q %SL_LOAD_D%\Orders\532_540
rdbloader -mi -i
TPCC.NEWORDER_60_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\532_540
del /Q %SL_LOAD_D%\NewOrder\532_540
wtpccd1.c.dec_to_int.bin a 541 549 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_61_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\541_549
del /Q %SL_LOAD_D%\OrderLine\541_549
rdbloader -mi -i TPCC.ORDER_61_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\541_549
del /Q %SL_LOAD_D%\Orders\541_549
rdbloader -mi -i
TPCC.NEWORDER_61_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\541_549
del /Q %SL_LOAD_D%\NewOrder\541_549
wtpccd1.c.dec_to_int.bin a 550 558 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_62_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\550_558
del /Q %SL_LOAD_D%\OrderLine\550_558
rdbloader -mi -i TPCC.ORDER_62_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\550_558
del /Q %SL_LOAD_D%\Orders\550_558
rdbloader -mi -i
TPCC.NEWORDER_62_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\550_558
del /Q %SL_LOAD_D%\NewOrder\550_558
wtpccd1.c.dec_to_int.bin a 559 567 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_63_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\559_567
del /Q %SL_LOAD_D%\OrderLine\559_567
rdbloader -mi -i TPCC.ORDER_63_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\559_567
del /Q %SL_LOAD_D%\Orders\559_567
rdbloader -mi -i
TPCC.NEWORDER_63_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\559_567
del /Q %SL_LOAD_D%\NewOrder\559_567

```

```
@echo sload_1404-07 sleep 30m .....
```

```
sleep 30m
```

```

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 487 513 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_19_DSI
-s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\487_513
del /Q %SL_LOAD_D%\Stock\487_513

wtpccd1.c.dec_to_int.bin a 514 540 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_20_DSI
-s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\514_540
del /Q %SL_LOAD_D%\Stock\514_540

wtpccd1.c.dec_to_int.bin a 541 567 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_21_DSI
-s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\541_567
del /Q %SL_LOAD_D%\Stock\541_567

```

**File: sload 1404-08.bat**

```

set SL_LOAD_D=o:\rdbloaddata
set WK1_D=o:\rdb\sortwk1
set WK2_D=y:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 568 576 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_64_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\568_576
del /Q %SL_LOAD_D%\Customer\568_576
rdbloader -mi -i TPCC.HISTORY_64_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\568_576
del /Q %SL_LOAD_D%\History\568_576
wtpccd1.c.dec_to_int.bin a 577 585 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_65_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\577_585
del /Q %SL_LOAD_D%\Customer\577_585
rdbloader -mi -i TPCC.HISTORY_65_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\577_585
del /Q %SL_LOAD_D%\History\577_585
wtpccd1.c.dec_to_int.bin a 586 594 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_66_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\586_594
del /Q %SL_LOAD_D%\Customer\586_594
rdbloader -mi -i TPCC.HISTORY_66_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\586_594
del /Q %SL_LOAD_D%\History\586_594
wtpccd1.c.dec_to_int.bin a 595 603 C
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.CUSTOMER_67_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\595_603
del /Q %SL_LOAD_D%\Customer\595_603
rdbloader -mi -i TPCC.HISTORY_67_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\595_603
del /Q %SL_LOAD_D%\History\595_603
wtpccd1.c.dec_to_int.bin a 604 612 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_68_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\604_612
del /Q %SL_LOAD_D%\Customer\604_612
rdbloader -mi -i TPCC.HISTORY_68_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\604_612
del /Q %SL_LOAD_D%\History\604_612
wtpccd1.c.dec_to_int.bin a 613 621 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_69_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\613_621
del /Q %SL_LOAD_D%\Customer\613_621
rdbloader -mi -i TPCC.HISTORY_69_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\613_621
del /Q %SL_LOAD_D%\History\613_621
wtpccd1.c.dec_to_int.bin a 622 630 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_70_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\622_630
del /Q %SL_LOAD_D%\Customer\622_630
rdbloader -mi -i TPCC.HISTORY_70_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\622_630
del /Q %SL_LOAD_D%\History\622_630
wtpccd1.c.dec_to_int.bin a 631 639 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_71_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\631_639
del /Q %SL_LOAD_D%\Customer\631_639
rdbloader -mi -i TPCC.HISTORY_71_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\631_639
del /Q %SL_LOAD_D%\History\631_639
wtpccd1.c.dec_to_int.bin a 640 648 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_72_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\640_648
del /Q %SL_LOAD_D%\Customer\640_648
rdbloader -mi -i TPCC.HISTORY_72_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\640_648
del /Q %SL_LOAD_D%\History\640_648

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 568 576 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_64_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\568_576

```

```

del /Q %SL_LOAD_D%\OrderLine\568_576
rdbloader -mi -i TPCC.ORDER_64_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\568_576
del /Q %SL_LOAD_D%\Orders\568_576
rdbloader -mi -i
TPCC.NEWORDER_64_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\568_576
del /Q %SL_LOAD_D%\NewOrder\568_576
wtpccd1.c.dec_to_int.bin a 577 585 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_65_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\577_585
del /Q %SL_LOAD_D%\OrderLine\577_585
rdbloader -mi -i TPCC.ORDER_65_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\577_585
del /Q %SL_LOAD_D%\Orders\577_585
rdbloader -mi -i
TPCC.NEWORDER_65_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\577_585
del /Q %SL_LOAD_D%\NewOrder\577_585
wtpccd1.c.dec_to_int.bin a 586 594 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_66_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\586_594
del /Q %SL_LOAD_D%\OrderLine\586_594
rdbloader -mi -i TPCC.ORDER_66_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\586_594
del /Q %SL_LOAD_D%\Orders\586_594
rdbloader -mi -i
TPCC.NEWORDER_66_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\586_594
del /Q %SL_LOAD_D%\NewOrder\586_594
wtpccd1.c.dec_to_int.bin a 595 603 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_67_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\595_603
del /Q %SL_LOAD_D%\OrderLine\595_603
rdbloader -mi -i TPCC.ORDER_67_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\595_603
del /Q %SL_LOAD_D%\Orders\595_603
rdbloader -mi -i
TPCC.NEWORDER_67_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\595_603
del /Q %SL_LOAD_D%\NewOrder\595_603
wtpccd1.c.dec_to_int.bin a 604 612 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_68_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\604_612
del /Q %SL_LOAD_D%\OrderLine\604_612
rdbloader -mi -i TPCC.ORDER_68_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\604_612
del /Q %SL_LOAD_D%\Orders\604_612
rdbloader -mi -i
TPCC.NEWORDER_68_DSI -h -f 20 -s

```

```

%WK1_D% -n
%SL_LOAD_D%\NewOrder\604_612
del /Q %SL_LOAD_D%\NewOrder\604_612
wtpccd1.c.dec_to_int.bin a 613 621 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_69_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\613_621
del /Q %SL_LOAD_D%\OrderLine\613_621
rdbloader -mi -i TPCC.ORDER_69_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\613_621
del /Q %SL_LOAD_D%\Orders\613_621
rdbloader -mi -i
TPCC.NEWORDER_69_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\613_621
del /Q %SL_LOAD_D%\NewOrder\613_621
wtpccd1.c.dec_to_int.bin a 622 630 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_70_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\622_630
del /Q %SL_LOAD_D%\OrderLine\622_630
rdbloader -mi -i TPCC.ORDER_70_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\622_630
del /Q %SL_LOAD_D%\Orders\622_630
rdbloader -mi -i
TPCC.NEWORDER_70_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\622_630
del /Q %SL_LOAD_D%\NewOrder\622_630
wtpccd1.c.dec_to_int.bin a 631 639 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_71_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\631_639
del /Q %SL_LOAD_D%\OrderLine\631_639
rdbloader -mi -i TPCC.ORDER_71_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\631_639
del /Q %SL_LOAD_D%\Orders\631_639
rdbloader -mi -i
TPCC.NEWORDER_71_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\631_639
del /Q %SL_LOAD_D%\NewOrder\631_639
wtpccd1.c.dec_to_int.bin a 640 648 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_72_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\640_648
del /Q %SL_LOAD_D%\OrderLine\640_648
rdbloader -mi -i TPCC.ORDER_72_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\640_648
del /Q %SL_LOAD_D%\Orders\640_648
rdbloader -mi -i
TPCC.NEWORDER_72_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\640_648
del /Q %SL_LOAD_D%\NewOrder\640_648

@echo sload_1404-08 sleep 30m ....
sleep 30m

```

```
@rem ### Stock ###
    wtpccd1.c.dec_to_int.bin a 568 594 S
%SL_LOAD_D%
    rdbloader -mi -i TPCC.STOCK_22_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\568_594
    del /Q %SL_LOAD_D%\Stock\568_594

    wtpccd1.c.dec_to_int.bin a 595 621 S
%SL_LOAD_D%
    rdbloader -mi -i TPCC.STOCK_23_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\595_621
    del /Q %SL_LOAD_D%\Stock\595_621

    wtpccd1.c.dec_to_int.bin a 622 648 S
%SL_LOAD_D%
    rdbloader -mi -i TPCC.STOCK_24_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\622_648
    del /Q %SL_LOAD_D%\Stock\622_648
```

**File: sload\_1404-09.bat**

```
set SL_LOAD_D=p:\rdb\loaddata
set WK1_D=p:\rdb\sortwk1
set WK2_D=q:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4
```

```
@rem ### Customer ###
@rem ### History ###
    wtpccd1.c.dec_to_int.bin a 649 657 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_73_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\649_657
    del /Q %SL_LOAD_D%\Customer\649_657
    rdbloader -mi -i TPCC.HISTORY_73_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\649_657
    del /Q %SL_LOAD_D%\History\649_657
    wtpccd1.c.dec_to_int.bin a 658 666 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_74_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\658_666
    del /Q %SL_LOAD_D%\Customer\658_666
    rdbloader -mi -i TPCC.HISTORY_74_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\658_666
    del /Q %SL_LOAD_D%\History\658_666
    wtpccd1.c.dec_to_int.bin a 667 675 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_75_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\667_675
    del /Q %SL_LOAD_D%\Customer\667_675
    rdbloader -mi -i TPCC.HISTORY_75_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\667_675
    del /Q %SL_LOAD_D%\History\667_675
    wtpccd1.c.dec_to_int.bin a 676 684 C
%SL_LOAD_D%
```

```
    rdbloader -mi -i
TPCC.CUSTOMER_76_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\676_684
    del /Q %SL_LOAD_D%\Customer\676_684
    rdbloader -mi -i TPCC.HISTORY_76_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\676_684
    del /Q %SL_LOAD_D%\History\676_684
    wtpccd1.c.dec_to_int.bin a 685 693 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_77_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\685_693
    del /Q %SL_LOAD_D%\Customer\685_693
    rdbloader -mi -i TPCC.HISTORY_77_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\685_693
    del /Q %SL_LOAD_D%\History\685_693
    wtpccd1.c.dec_to_int.bin a 694 702 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_78_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\694_702
    del /Q %SL_LOAD_D%\Customer\694_702
    rdbloader -mi -i TPCC.HISTORY_78_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\694_702
    del /Q %SL_LOAD_D%\History\694_702
    wtpccd1.c.dec_to_int.bin a 703 711 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_79_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\703_711
    del /Q %SL_LOAD_D%\Customer\703_711
    rdbloader -mi -i TPCC.HISTORY_79_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\703_711
    del /Q %SL_LOAD_D%\History\703_711
    wtpccd1.c.dec_to_int.bin a 712 720 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_80_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\712_720
    del /Q %SL_LOAD_D%\Customer\712_720
    rdbloader -mi -i TPCC.HISTORY_80_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\712_720
    del /Q %SL_LOAD_D%\History\712_720
    wtpccd1.c.dec_to_int.bin a 721 729 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_81_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\721_729
    del /Q %SL_LOAD_D%\Customer\721_729
    rdbloader -mi -i TPCC.HISTORY_81_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\721_729
    del /Q %SL_LOAD_D%\History\721_729

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
    wtpccd1.c.dec_to_int.bin a 649 657 O
%SL_LOAD_D%
    rdbloader -mi -i TPCC.ORDERLIN_73_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\649_657
```

```
    del /Q %SL_LOAD_D%\OrderLine\649_657
    rdbloader -mi -i TPCC.ORDER_73_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\649_657
    del /Q %SL_LOAD_D%\Orders\649_657
    rdbloader -mi -i
TPCC.NEWORDER_73_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\649_657
    del /Q %SL_LOAD_D%\NewOrder\649_657
    wtpccd1.c.dec_to_int.bin a 658 666 O
%SL_LOAD_D%
    rdbloader -mi -i TPCC.ORDERLIN_74_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\658_666
    del /Q %SL_LOAD_D%\OrderLine\658_666
    rdbloader -mi -i TPCC.ORDER_74_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\658_666
    del /Q %SL_LOAD_D%\Orders\658_666
    rdbloader -mi -i
TPCC.NEWORDER_74_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\658_666
    del /Q %SL_LOAD_D%\NewOrder\658_666
    wtpccd1.c.dec_to_int.bin a 667 675 O
%SL_LOAD_D%
    rdbloader -mi -i TPCC.ORDERLIN_75_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\667_675
    del /Q %SL_LOAD_D%\OrderLine\667_675
    rdbloader -mi -i TPCC.ORDER_75_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\667_675
    del /Q %SL_LOAD_D%\Orders\667_675
    rdbloader -mi -i
TPCC.NEWORDER_75_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\667_675
    del /Q %SL_LOAD_D%\NewOrder\667_675
    wtpccd1.c.dec_to_int.bin a 676 684 O
%SL_LOAD_D%
    rdbloader -mi -i TPCC.ORDERLIN_76_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\676_684
    del /Q %SL_LOAD_D%\OrderLine\676_684
    rdbloader -mi -i TPCC.ORDER_76_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\676_684
    del /Q %SL_LOAD_D%\Orders\676_684
    rdbloader -mi -i
TPCC.NEWORDER_76_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\676_684
    del /Q %SL_LOAD_D%\NewOrder\676_684
    wtpccd1.c.dec_to_int.bin a 685 693 O
%SL_LOAD_D%
    rdbloader -mi -i TPCC.ORDERLIN_77_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\685_693
    del /Q %SL_LOAD_D%\OrderLine\685_693
    rdbloader -mi -i TPCC.ORDER_77_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\685_693
    del /Q %SL_LOAD_D%\Orders\685_693
    rdbloader -mi -i
TPCC.NEWORDER_77_DSI -h -f 20 -s
```

```

%WK1_D%-n
%SL_LOAD_D%\NewOrder\685_693
del /Q %SL_LOAD_D%\NewOrder\685_693
wtpccd1.c.dec_to_int.bin a 694 702 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_78_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\694_702
del /Q %SL_LOAD_D%\OrderLine\694_702
rdbloader -mi -i TPCC.ORDERLIN_78_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\694_702
del /Q %SL_LOAD_D%\Orders\694_702
rdbloader -mi -i
TPCC.NEWORDER_78_DSI -h -f 20 -s
%WK1_D%-n
%SL_LOAD_D%\NewOrder\694_702
del /Q %SL_LOAD_D%\NewOrder\694_702
wtpccd1.c.dec_to_int.bin a 703 711 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_79_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\703_711
del /Q %SL_LOAD_D%\OrderLine\703_711
rdbloader -mi -i TPCC.ORDERLIN_79_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\703_711
del /Q %SL_LOAD_D%\Orders\703_711
rdbloader -mi -i
TPCC.NEWORDER_79_DSI -h -f 20 -s
%WK1_D%-n
%SL_LOAD_D%\NewOrder\703_711
del /Q %SL_LOAD_D%\NewOrder\703_711
wtpccd1.c.dec_to_int.bin a 712 720 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_80_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\712_720
del /Q %SL_LOAD_D%\OrderLine\712_720
rdbloader -mi -i TPCC.ORDERLIN_80_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\712_720
del /Q %SL_LOAD_D%\Orders\712_720
rdbloader -mi -i
TPCC.NEWORDER_80_DSI -h -f 20 -s
%WK1_D%-n
%SL_LOAD_D%\NewOrder\712_720
del /Q %SL_LOAD_D%\NewOrder\712_720
wtpccd1.c.dec_to_int.bin a 721 729 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_81_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\721_729
del /Q %SL_LOAD_D%\OrderLine\721_729
rdbloader -mi -i TPCC.ORDERLIN_81_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\721_729
del /Q %SL_LOAD_D%\Orders\721_729
rdbloader -mi -i
TPCC.NEWORDER_81_DSI -h -f 20 -s
%WK1_D%-n
%SL_LOAD_D%\NewOrder\721_729
del /Q %SL_LOAD_D%\NewOrder\721_729

```

```

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 649 675 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_25_DSI -
s %WK1_D%-s %WK2_D%-n
%SL_LOAD_D%\Stock\649_675
del /Q %SL_LOAD_D%\Stock\649_675

wtpccd1.c.dec_to_int.bin a 676 702 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_26_DSI -
s %WK1_D%-s %WK2_D%-n
%SL_LOAD_D%\Stock\676_702
del /Q %SL_LOAD_D%\Stock\676_702

wtpccd1.c.dec_to_int.bin a 703 729 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_27_DSI -
s %WK1_D%-s %WK2_D%-n
%SL_LOAD_D%\Stock\703_729
del /Q %SL_LOAD_D%\Stock\703_729

File: sload_1404-10.bat

set SL_LOAD_D=q:\rdb\loaddata
set WK1_D=q:\rdb\sortwk1
set WK2_D=p:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 730 738 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_82_DSI -h -s %WK1_D%-n
%SL_LOAD_D%\Customer\730_738
del /Q %SL_LOAD_D%\Customer\730_738
rdbloader -mi -i TPCC.HISTORY_82_DSI -
h -s %WK1_D%-n
%SL_LOAD_D%\History\730_738
del /Q %SL_LOAD_D%\History\730_738
wtpccd1.c.dec_to_int.bin a 739 747 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_83_DSI -h -s %WK1_D%-n
%SL_LOAD_D%\Customer\739_747
del /Q %SL_LOAD_D%\Customer\739_747
rdbloader -mi -i TPCC.HISTORY_83_DSI -
h -s %WK1_D%-n
%SL_LOAD_D%\History\739_747
del /Q %SL_LOAD_D%\History\739_747
wtpccd1.c.dec_to_int.bin a 748 756 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_84_DSI -h -s %WK1_D%-n
%SL_LOAD_D%\Customer\748_756
del /Q %SL_LOAD_D%\Customer\748_756
rdbloader -mi -i TPCC.HISTORY_84_DSI -
h -s %WK1_D%-n
%SL_LOAD_D%\History\748_756
del /Q %SL_LOAD_D%\History\748_756
wtpccd1.c.dec_to_int.bin a 757 765 C
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.CUSTOMER_85_DSI -h -s %WK1_D%-n
%SL_LOAD_D%\Customer\757_765
del /Q %SL_LOAD_D%\Customer\757_765
rdbloader -mi -i TPCC.HISTORY_85_DSI -
h -s %WK1_D%-n
%SL_LOAD_D%\History\757_765
del /Q %SL_LOAD_D%\History\757_765
wtpccd1.c.dec_to_int.bin a 766 774 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_86_DSI -h -s %WK1_D%-n
%SL_LOAD_D%\Customer\766_774
del /Q %SL_LOAD_D%\Customer\766_774
rdbloader -mi -i TPCC.HISTORY_86_DSI -
h -s %WK1_D%-n
%SL_LOAD_D%\History\766_774
del /Q %SL_LOAD_D%\History\766_774
wtpccd1.c.dec_to_int.bin a 775 783 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_87_DSI -h -s %WK1_D%-n
%SL_LOAD_D%\Customer\775_783
del /Q %SL_LOAD_D%\Customer\775_783
rdbloader -mi -i TPCC.HISTORY_87_DSI -
h -s %WK1_D%-n
%SL_LOAD_D%\History\775_783
del /Q %SL_LOAD_D%\History\775_783
wtpccd1.c.dec_to_int.bin a 784 792 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_88_DSI -h -s %WK1_D%-n
%SL_LOAD_D%\Customer\784_792
del /Q %SL_LOAD_D%\Customer\784_792
rdbloader -mi -i TPCC.HISTORY_88_DSI -
h -s %WK1_D%-n
%SL_LOAD_D%\History\784_792
del /Q %SL_LOAD_D%\History\784_792
wtpccd1.c.dec_to_int.bin a 793 801 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_89_DSI -h -s %WK1_D%-n
%SL_LOAD_D%\Customer\793_801
del /Q %SL_LOAD_D%\Customer\793_801
rdbloader -mi -i TPCC.HISTORY_89_DSI -
h -s %WK1_D%-n
%SL_LOAD_D%\History\793_801
del /Q %SL_LOAD_D%\History\793_801
wtpccd1.c.dec_to_int.bin a 802 810 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_90_DSI -h -s %WK1_D%-n
%SL_LOAD_D%\Customer\802_810
del /Q %SL_LOAD_D%\Customer\802_810
rdbloader -mi -i TPCC.HISTORY_90_DSI -
h -s %WK1_D%-n
%SL_LOAD_D%\History\802_810
del /Q %SL_LOAD_D%\History\802_810

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 730 738 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_82_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\730_738

```

```

del /Q %SL_LOAD_D%\OrderLine\730_738
rdbloader -mi -i TPCC.ORDERS_82_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\730_738
del /Q %SL_LOAD_D%\Orders\730_738
rdbloader -mi -i
TPCC.NEWORDER_82_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\730_738
del /Q %SL_LOAD_D%\NewOrder\730_738
wtpccd1.c.dec_to_int.bin a 739 747 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_83_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\739_747
del /Q %SL_LOAD_D%\OrderLine\739_747
rdbloader -mi -i TPCC.ORDERS_83_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\739_747
del /Q %SL_LOAD_D%\Orders\739_747
rdbloader -mi -i
TPCC.NEWORDER_83_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\739_747
del /Q %SL_LOAD_D%\NewOrder\739_747
wtpccd1.c.dec_to_int.bin a 748 756 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_84_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\748_756
del /Q %SL_LOAD_D%\OrderLine\748_756
rdbloader -mi -i TPCC.ORDERS_84_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\748_756
del /Q %SL_LOAD_D%\Orders\748_756
rdbloader -mi -i
TPCC.NEWORDER_84_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\748_756
del /Q %SL_LOAD_D%\NewOrder\748_756
wtpccd1.c.dec_to_int.bin a 757 765 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_85_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\757_765
del /Q %SL_LOAD_D%\OrderLine\757_765
rdbloader -mi -i TPCC.ORDERS_85_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\757_765
del /Q %SL_LOAD_D%\Orders\757_765
rdbloader -mi -i
TPCC.NEWORDER_85_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\757_765
del /Q %SL_LOAD_D%\NewOrder\757_765
wtpccd1.c.dec_to_int.bin a 766 774 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_86_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\766_774
del /Q %SL_LOAD_D%\OrderLine\766_774
rdbloader -mi -i TPCC.ORDERS_86_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\766_774
del /Q %SL_LOAD_D%\Orders\766_774
rdbloader -mi -i
TPCC.NEWORDER_86_DSI -h -f 20 -s

```

```

%WK1_D% -n
%SL_LOAD_D%\NewOrder\766_774
del /Q %SL_LOAD_D%\NewOrder\766_774
wtpccd1.c.dec_to_int.bin a 775 783 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_87_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\775_783
del /Q %SL_LOAD_D%\OrderLine\775_783
rdbloader -mi -i TPCC.ORDERS_87_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\775_783
del /Q %SL_LOAD_D%\Orders\775_783
rdbloader -mi -i
TPCC.NEWORDER_87_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\775_783
del /Q %SL_LOAD_D%\NewOrder\775_783
wtpccd1.c.dec_to_int.bin a 784 792 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_88_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\784_792
del /Q %SL_LOAD_D%\OrderLine\784_792
rdbloader -mi -i TPCC.ORDERS_88_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\784_792
del /Q %SL_LOAD_D%\Orders\784_792
rdbloader -mi -i
TPCC.NEWORDER_88_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\784_792
del /Q %SL_LOAD_D%\NewOrder\784_792
wtpccd1.c.dec_to_int.bin a 793 801 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_89_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\793_801
del /Q %SL_LOAD_D%\OrderLine\793_801
rdbloader -mi -i TPCC.ORDERS_89_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\793_801
del /Q %SL_LOAD_D%\Orders\793_801
rdbloader -mi -i
TPCC.NEWORDER_89_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\793_801
del /Q %SL_LOAD_D%\NewOrder\793_801
wtpccd1.c.dec_to_int.bin a 802 810 O
%SL_LOAD_D%
rdbloader -mi -i TPCC.ORDERLIN_90_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\802_810
del /Q %SL_LOAD_D%\OrderLine\802_810
rdbloader -mi -i TPCC.ORDERS_90_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\802_810
del /Q %SL_LOAD_D%\Orders\802_810
rdbloader -mi -i
TPCC.NEWORDER_90_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\802_810
del /Q %SL_LOAD_D%\NewOrder\802_810

```

```

@echo sload_1404-10 sleep 30m .....
sleep 30m

```

```

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 730 756 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_28_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\730_756
del /Q %SL_LOAD_D%\Stock\730_756

wtpccd1.c.dec_to_int.bin a 757 783 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_29_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\757_783
del /Q %SL_LOAD_D%\Stock\757_783

wtpccd1.c.dec_to_int.bin a 784 810 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_30_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\784_810
del /Q %SL_LOAD_D%\Stock\784_810
File: sload_1404-11.bat

set SL_LOAD_D=:rdb\loaddata
set WK1_D=:rdb\sortwk1
set WK2_D=:rdb\sortwk2
set WK3_D=:rdb\sortwk3
set WK4_D=:rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 811 819 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_91_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\811_819
del /Q %SL_LOAD_D%\Customer\811_819
rdbloader -mi -i TPCC.HISTORY_91_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\811_819
del /Q %SL_LOAD_D%\History\811_819
wtpccd1.c.dec_to_int.bin a 820 828 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_92_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\820_828
del /Q %SL_LOAD_D%\Customer\820_828
rdbloader -mi -i TPCC.HISTORY_92_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\820_828
del /Q %SL_LOAD_D%\History\820_828
wtpccd1.c.dec_to_int.bin a 829 837 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_93_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\829_837
del /Q %SL_LOAD_D%\Customer\829_837
rdbloader -mi -i TPCC.HISTORY_93_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\829_837
del /Q %SL_LOAD_D%\History\829_837
wtpccd1.c.dec_to_int.bin a 838 846 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_94_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\838_846
del /Q %SL_LOAD_D%\Customer\838_846

```

```

rdbmsloader -mi -i TPCC.HISTORY_94_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\838_846
del /Q %SL_LOAD_D%\History\838_846
wtpccd1.c.dec_to_int.bin a 847 855 C
%SL_LOAD_D%
rdbmsloader -mi -i
TPCC.CUSTOMER_95_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\847_855
del /Q %SL_LOAD_D%\Customer\847_855
rdbmsloader -mi -i TPCC.HISTORY_95_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\847_855
del /Q %SL_LOAD_D%\History\847_855
wtpccd1.c.dec_to_int.bin a 856 864 C
%SL_LOAD_D%
rdbmsloader -mi -i
TPCC.CUSTOMER_96_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\856_864
del /Q %SL_LOAD_D%\Customer\856_864
rdbmsloader -mi -i TPCC.HISTORY_96_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\856_864
del /Q %SL_LOAD_D%\History\856_864
wtpccd1.c.dec_to_int.bin a 865 873 C
%SL_LOAD_D%
rdbmsloader -mi -i
TPCC.CUSTOMER_97_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\865_873
del /Q %SL_LOAD_D%\Customer\865_873
rdbmsloader -mi -i TPCC.HISTORY_97_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\865_873
del /Q %SL_LOAD_D%\History\865_873
wtpccd1.c.dec_to_int.bin a 874 882 C
%SL_LOAD_D%
rdbmsloader -mi -i
TPCC.CUSTOMER_98_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\874_882
del /Q %SL_LOAD_D%\Customer\874_882
rdbmsloader -mi -i TPCC.HISTORY_98_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\874_882
del /Q %SL_LOAD_D%\History\874_882
wtpccd1.c.dec_to_int.bin a 883 891 C
%SL_LOAD_D%
rdbmsloader -mi -i
TPCC.CUSTOMER_99_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\883_891
del /Q %SL_LOAD_D%\Customer\883_891
rdbmsloader -mi -i TPCC.HISTORY_99_DSI -
h -s %WK1_D% -n
%SL_LOAD_D%\History\883_891
del /Q %SL_LOAD_D%\History\883_891

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 811 819 O
%SL_LOAD_D%
rdbmsloader -mi -i TPCC.ORDERLIN_91_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\811_819
del /Q %SL_LOAD_D%\OrderLine\811_819
rdbmsloader -mi -i TPCC.ORDERLIN_91_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\811_819

```

```

del /Q %SL_LOAD_D%\Orders\811_819
rdbmsloader -mi -i
TPCC.NEWORDER_91_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\811_819
del /Q %SL_LOAD_D%\NewOrder\811_819
wtpccd1.c.dec_to_int.bin a 820 828 O
%SL_LOAD_D%
rdbmsloader -mi -i TPCC.ORDERLIN_92_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\820_828
del /Q %SL_LOAD_D%\OrderLine\820_828
rdbmsloader -mi -i TPCC.ORDERLIN_92_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\820_828
del /Q %SL_LOAD_D%\Orders\820_828
rdbmsloader -mi -i
TPCC.NEWORDER_92_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\820_828
del /Q %SL_LOAD_D%\NewOrder\820_828
wtpccd1.c.dec_to_int.bin a 829 837 O
%SL_LOAD_D%
rdbmsloader -mi -i TPCC.ORDERLIN_93_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\829_837
del /Q %SL_LOAD_D%\OrderLine\829_837
rdbmsloader -mi -i TPCC.ORDERLIN_93_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\829_837
del /Q %SL_LOAD_D%\Orders\829_837
rdbmsloader -mi -i
TPCC.NEWORDER_93_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\829_837
del /Q %SL_LOAD_D%\NewOrder\829_837
wtpccd1.c.dec_to_int.bin a 838 846 O
%SL_LOAD_D%
rdbmsloader -mi -i TPCC.ORDERLIN_94_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\838_846
del /Q %SL_LOAD_D%\OrderLine\838_846
rdbmsloader -mi -i TPCC.ORDERLIN_94_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\838_846
del /Q %SL_LOAD_D%\Orders\838_846
rdbmsloader -mi -i
TPCC.NEWORDER_94_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\838_846
del /Q %SL_LOAD_D%\NewOrder\838_846
wtpccd1.c.dec_to_int.bin a 847 855 O
%SL_LOAD_D%
rdbmsloader -mi -i TPCC.ORDERLIN_95_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\847_855
del /Q %SL_LOAD_D%\OrderLine\847_855
rdbmsloader -mi -i TPCC.ORDERLIN_95_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\847_855
del /Q %SL_LOAD_D%\Orders\847_855
rdbmsloader -mi -i
TPCC.NEWORDER_95_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\847_855
del /Q %SL_LOAD_D%\NewOrder\847_855
wtpccd1.c.dec_to_int.bin a 856 864 O
%SL_LOAD_D%

```

```

rdbmsloader -mi -i TPCC.ORDERLIN_96_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\856_864
del /Q %SL_LOAD_D%\OrderLine\856_864
rdbmsloader -mi -i TPCC.ORDERLIN_96_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\856_864
del /Q %SL_LOAD_D%\Orders\856_864
rdbmsloader -mi -i
TPCC.NEWORDER_96_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\856_864
del /Q %SL_LOAD_D%\NewOrder\856_864
wtpccd1.c.dec_to_int.bin a 865 873 O
%SL_LOAD_D%
rdbmsloader -mi -i TPCC.ORDERLIN_97_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\865_873
del /Q %SL_LOAD_D%\OrderLine\865_873
rdbmsloader -mi -i TPCC.ORDERLIN_97_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\865_873
del /Q %SL_LOAD_D%\Orders\865_873
rdbmsloader -mi -i
TPCC.NEWORDER_97_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\865_873
del /Q %SL_LOAD_D%\NewOrder\865_873
wtpccd1.c.dec_to_int.bin a 874 882 O
%SL_LOAD_D%
rdbmsloader -mi -i TPCC.ORDERLIN_98_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\874_882
del /Q %SL_LOAD_D%\OrderLine\874_882
rdbmsloader -mi -i TPCC.ORDERLIN_98_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\874_882
del /Q %SL_LOAD_D%\Orders\874_882
rdbmsloader -mi -i
TPCC.NEWORDER_98_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\874_882
del /Q %SL_LOAD_D%\NewOrder\874_882
wtpccd1.c.dec_to_int.bin a 883 891 O
%SL_LOAD_D%
rdbmsloader -mi -i TPCC.ORDERLIN_99_DSI
-h -s %WK1_D%
%SL_LOAD_D%\OrderLine\883_891
del /Q %SL_LOAD_D%\OrderLine\883_891
rdbmsloader -mi -i TPCC.ORDERLIN_99_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\883_891
del /Q %SL_LOAD_D%\Orders\883_891
rdbmsloader -mi -i
TPCC.NEWORDER_99_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\883_891
del /Q %SL_LOAD_D%\NewOrder\883_891

```

```

@echo sload_1404-11 sleep 30m ....
sleep 30m

```

```

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 811 837 S
%SL_LOAD_D%

```



```

rdbloader -mi -i TPCC.STOCK_31_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\811_837
del /Q %SL_LOAD_D%\Stock\811_837

wtpccd1.c.dec_to_int.bin a 838 864 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_32_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\838_864
del /Q %SL_LOAD_D%\Stock\838_864

wtpccd1.c.dec_to_int.bin a 865 891 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_33_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\865_891
del /Q %SL_LOAD_D%\Stock\865_891

```

**File: sload 1404-12.bat**

```

set SL_LOAD_D=:rdbloaddata
set WK1_D=:rdbsortwk1
set WK2_D=:rdbsortwk2
set WK3_D=:rdbsortwk3
set WK4_D=:rdbsortwk4

```

```

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 892 900 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_100_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\892_900
del /Q %SL_LOAD_D%\Customer\892_900
rdbloader -mi -i TPCC.HISTORY_100_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\892_900
del /Q %SL_LOAD_D%\History\892_900
wtpccd1.c.dec_to_int.bin a 901 909 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_101_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\901_909
del /Q %SL_LOAD_D%\Customer\901_909
rdbloader -mi -i TPCC.HISTORY_101_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\901_909
del /Q %SL_LOAD_D%\History\901_909
wtpccd1.c.dec_to_int.bin a 910 918 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_102_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\910_918
del /Q %SL_LOAD_D%\Customer\910_918
rdbloader -mi -i TPCC.HISTORY_102_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\910_918
del /Q %SL_LOAD_D%\History\910_918
wtpccd1.c.dec_to_int.bin a 919 927 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_103_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\919_927
del /Q %SL_LOAD_D%\Customer\919_927

```

```

rdbloader -mi -i TPCC.HISTORY_103_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\919_927
del /Q %SL_LOAD_D%\History\919_927
wtpccd1.c.dec_to_int.bin a 928 936 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_104_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\928_936
del /Q %SL_LOAD_D%\Customer\928_936
rdbloader -mi -i TPCC.HISTORY_104_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\928_936
del /Q %SL_LOAD_D%\History\928_936
wtpccd1.c.dec_to_int.bin a 937 945 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_105_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\937_945
del /Q %SL_LOAD_D%\Customer\937_945
rdbloader -mi -i TPCC.HISTORY_105_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\937_945
del /Q %SL_LOAD_D%\History\937_945
wtpccd1.c.dec_to_int.bin a 946 954 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_106_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\946_954
del /Q %SL_LOAD_D%\Customer\946_954
rdbloader -mi -i TPCC.HISTORY_106_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\946_954
del /Q %SL_LOAD_D%\History\946_954
wtpccd1.c.dec_to_int.bin a 955 963 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_107_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\955_963
del /Q %SL_LOAD_D%\Customer\955_963
rdbloader -mi -i TPCC.HISTORY_107_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\955_963
del /Q %SL_LOAD_D%\History\955_963
wtpccd1.c.dec_to_int.bin a 964 972 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_108_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\964_972
del /Q %SL_LOAD_D%\Customer\964_972
rdbloader -mi -i TPCC.HISTORY_108_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\964_972
del /Q %SL_LOAD_D%\History\964_972

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 892 900 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_100_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\892_900
del /Q %SL_LOAD_D%\OrderLine\892_900
rdbloader -mi -i TPCC.ORDER_100_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\892_900

```

```

del /Q %SL_LOAD_D%\Orders\892_900
rdbloader -mi -i
TPCC.NEWORDER_100_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\892_900
del /Q %SL_LOAD_D%\NewOrder\892_900
wtpccd1.c.dec_to_int.bin a 901 909 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_101_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\901_909
del /Q %SL_LOAD_D%\OrderLine\901_909
rdbloader -mi -i TPCC.ORDER_101_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\901_909
del /Q %SL_LOAD_D%\Orders\901_909
rdbloader -mi -i
TPCC.NEWORDER_101_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\901_909
del /Q %SL_LOAD_D%\NewOrder\901_909
wtpccd1.c.dec_to_int.bin a 910 918 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_102_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\910_918
del /Q %SL_LOAD_D%\OrderLine\910_918
rdbloader -mi -i TPCC.ORDER_102_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\910_918
del /Q %SL_LOAD_D%\Orders\910_918
rdbloader -mi -i
TPCC.NEWORDER_102_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\910_918
del /Q %SL_LOAD_D%\NewOrder\910_918
wtpccd1.c.dec_to_int.bin a 919 927 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_103_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\919_927
del /Q %SL_LOAD_D%\OrderLine\919_927
rdbloader -mi -i TPCC.ORDER_103_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\919_927
del /Q %SL_LOAD_D%\Orders\919_927
rdbloader -mi -i
TPCC.NEWORDER_103_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\919_927
del /Q %SL_LOAD_D%\NewOrder\919_927
wtpccd1.c.dec_to_int.bin a 928 936 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_104_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\928_936
del /Q %SL_LOAD_D%\OrderLine\928_936
rdbloader -mi -i TPCC.ORDER_104_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\928_936
del /Q %SL_LOAD_D%\Orders\928_936
rdbloader -mi -i
TPCC.NEWORDER_104_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\928_936
del /Q %SL_LOAD_D%\NewOrder\928_936
wtpccd1.c.dec_to_int.bin a 937 945 O
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.ORDERLIN_105_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\937_945
del /Q %SL_LOAD_D%\OrderLine\937_945
rdbloader -mi -i TPCC.ORDER_105_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\937_945
del /Q %SL_LOAD_D%\Orders\937_945
rdbloader -mi -i
TPCC.NEWORDER_105_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\937_945
del /Q %SL_LOAD_D%\NewOrder\937_945
wtpccd1.c.dec_to_int.bin a 946 954 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_106_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\946_954
del /Q %SL_LOAD_D%\OrderLine\946_954
rdbloader -mi -i TPCC.ORDER_106_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\946_954
del /Q %SL_LOAD_D%\Orders\946_954
rdbloader -mi -i
TPCC.NEWORDER_106_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\946_954
del /Q %SL_LOAD_D%\NewOrder\946_954
wtpccd1.c.dec_to_int.bin a 955 963 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_107_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\955_963
del /Q %SL_LOAD_D%\OrderLine\955_963
rdbloader -mi -i TPCC.ORDER_107_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\955_963
del /Q %SL_LOAD_D%\Orders\955_963
rdbloader -mi -i
TPCC.NEWORDER_107_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\955_963
del /Q %SL_LOAD_D%\NewOrder\955_963
wtpccd1.c.dec_to_int.bin a 964 972 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_108_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\964_972
del /Q %SL_LOAD_D%\OrderLine\964_972
rdbloader -mi -i TPCC.ORDER_108_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\964_972
del /Q %SL_LOAD_D%\Orders\964_972
rdbloader -mi -i
TPCC.NEWORDER_108_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\964_972
del /Q %SL_LOAD_D%\NewOrder\964_972

@echo sload_1404-12 sleep 30m .....
sleep 30m

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 892 918 S
%SL_LOAD_D%

```

```

rdbloader -mi -i TPCC.STOCK_34_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\892_918
del /Q %SL_LOAD_D%\Stock\892_918

wtpccd1.c.dec_to_int.bin a 919 945 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_35_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\919_945
del /Q %SL_LOAD_D%\Stock\919_945

wtpccd1.c.dec_to_int.bin a 946 972 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_36_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\946_972
del /Q %SL_LOAD_D%\Stock\946_972

File: sload_1404-13.bat
set SL_LOAD_D=:rdbloaddata
set WK1_D=:rdbsortwk1
set WK2_D=:rdbsortwk2
set WK3_D=:rdbsortwk3
set WK4_D=:rdbsortwk4

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 973 981 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_109_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\973_981
del /Q %SL_LOAD_D%\Customer\973_981
rdbloader -mi -i TPCC.HISTORY_109_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\973_981
del /Q %SL_LOAD_D%\History\973_981
wtpccd1.c.dec_to_int.bin a 982 990 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_110_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\982_990
del /Q %SL_LOAD_D%\Customer\982_990
rdbloader -mi -i TPCC.HISTORY_110_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\982_990
del /Q %SL_LOAD_D%\History\982_990
wtpccd1.c.dec_to_int.bin a 991 999 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_111_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\991_999
del /Q %SL_LOAD_D%\Customer\991_999
rdbloader -mi -i TPCC.HISTORY_111_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\991_999
del /Q %SL_LOAD_D%\History\991_999
wtpccd1.c.dec_to_int.bin a 1000 1008 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_112_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1000_1008
del /Q
%SL_LOAD_D%\Customer\1000_1008

```

```

rdbloader -mi -i TPCC.HISTORY_112_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1000_1008
del /Q %SL_LOAD_D%\History\1000_1008
wtpccd1.c.dec_to_int.bin a 1009 1017 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_113_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1009_1017
del /Q
%SL_LOAD_D%\Customer\1009_1017
rdbloader -mi -i TPCC.HISTORY_113_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1009_1017
del /Q %SL_LOAD_D%\History\1009_1017
wtpccd1.c.dec_to_int.bin a 1018 1026 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_114_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1018_1026
del /Q
%SL_LOAD_D%\Customer\1018_1026
rdbloader -mi -i TPCC.HISTORY_114_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1018_1026
del /Q %SL_LOAD_D%\History\1018_1026
wtpccd1.c.dec_to_int.bin a 1027 1035 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_115_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1027_1035
del /Q
%SL_LOAD_D%\Customer\1027_1035
rdbloader -mi -i TPCC.HISTORY_115_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1027_1035
del /Q %SL_LOAD_D%\History\1027_1035
wtpccd1.c.dec_to_int.bin a 1036 1044 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_116_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1036_1044
del /Q
%SL_LOAD_D%\Customer\1036_1044
rdbloader -mi -i TPCC.HISTORY_116_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1036_1044
del /Q %SL_LOAD_D%\History\1036_1044
wtpccd1.c.dec_to_int.bin a 1045 1053 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_117_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1045_1053
del /Q
%SL_LOAD_D%\Customer\1045_1053
rdbloader -mi -i TPCC.HISTORY_117_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1045_1053
del /Q %SL_LOAD_D%\History\1045_1053

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 973 981 O
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.ORDERLIN_109_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\973_981
del /Q %SL_LOAD_D%\OrderLine\973_981
rdbloader -mi -i TPCC.ORDER_109_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\973_981
del /Q %SL_LOAD_D%\Orders\973_981
rdbloader -mi -i
TPCC.NEWORDER_109_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\973_981
del /Q %SL_LOAD_D%\NewOrder\973_981
wtpccd1.c.dec_to_int.bin a 982 990 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_110_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\982_990
del /Q %SL_LOAD_D%\OrderLine\982_990
rdbloader -mi -i TPCC.ORDER_110_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\982_990
del /Q %SL_LOAD_D%\Orders\982_990
rdbloader -mi -i
TPCC.NEWORDER_110_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\982_990
del /Q %SL_LOAD_D%\NewOrder\982_990
wtpccd1.c.dec_to_int.bin a 991 999 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_111_DSI -h -s
%WK1_D% %SL_LOAD_D%\OrderLine\991_999
del /Q %SL_LOAD_D%\OrderLine\991_999
rdbloader -mi -i TPCC.ORDER_111_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\991_999
del /Q %SL_LOAD_D%\Orders\991_999
rdbloader -mi -i
TPCC.NEWORDER_111_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\991_999
del /Q %SL_LOAD_D%\NewOrder\991_999
wtpccd1.c.dec_to_int.bin a 1000 1008 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_112_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1000_1008
del /Q
%SL_LOAD_D%\OrderLine\1000_1008
rdbloader -mi -i TPCC.ORDER_112_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1000_1008
del /Q %SL_LOAD_D%\Orders\1000_1008
rdbloader -mi -i
TPCC.NEWORDER_112_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1000_1008
del /Q
%SL_LOAD_D%\NewOrder\1000_1008
wtpccd1.c.dec_to_int.bin a 1009 1017 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_113_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1009_1017

```

```

del /Q
%SL_LOAD_D%\OrderLine\1009_1017
rdbloader -mi -i TPCC.ORDER_113_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1009_1017
del /Q %SL_LOAD_D%\Orders\1009_1017
rdbloader -mi -i
TPCC.NEWORDER_113_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1009_1017
del /Q
%SL_LOAD_D%\NewOrder\1009_1017
wtpccd1.c.dec_to_int.bin a 1018 1026 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_114_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1018_1026
del /Q
%SL_LOAD_D%\OrderLine\1018_1026
rdbloader -mi -i TPCC.ORDER_114_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1018_1026
del /Q %SL_LOAD_D%\Orders\1018_1026
rdbloader -mi -i
TPCC.NEWORDER_114_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1018_1026
del /Q
%SL_LOAD_D%\NewOrder\1018_1026
wtpccd1.c.dec_to_int.bin a 1027 1035 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_115_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1027_1035
del /Q
%SL_LOAD_D%\OrderLine\1027_1035
rdbloader -mi -i TPCC.ORDER_115_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1027_1035
del /Q %SL_LOAD_D%\Orders\1027_1035
rdbloader -mi -i
TPCC.NEWORDER_115_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1027_1035
del /Q
%SL_LOAD_D%\NewOrder\1027_1035
wtpccd1.c.dec_to_int.bin a 1036 1044 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_116_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1036_1044
del /Q
%SL_LOAD_D%\OrderLine\1036_1044
rdbloader -mi -i TPCC.ORDER_116_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1036_1044
del /Q %SL_LOAD_D%\Orders\1036_1044
rdbloader -mi -i
TPCC.NEWORDER_116_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1036_1044
del /Q
%SL_LOAD_D%\NewOrder\1036_1044
wtpccd1.c.dec_to_int.bin a 1045 1053 O
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.ORDERLIN_117_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1045_1053
del /Q
%SL_LOAD_D%\OrderLine\1045_1053
rdbloader -mi -i TPCC.ORDER_117_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1045_1053
del /Q %SL_LOAD_D%\Orders\1045_1053
rdbloader -mi -i
TPCC.NEWORDER_117_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1045_1053
del /Q
%SL_LOAD_D%\NewOrder\1045_1053

@echo sload_1404-13 sleep 30m .....
sleep 30m

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 973 999 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_37_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\973_999
del /Q %SL_LOAD_D%\Stock\973_999

wtpccd1.c.dec_to_int.bin a 1000 1026 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_38_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1000_1026
del /Q %SL_LOAD_D%\Stock\1000_1026

wtpccd1.c.dec_to_int.bin a 1027 1053 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_39_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1027_1053
del /Q %SL_LOAD_D%\Stock\1027_1053

File: sload_1404-14.bat

set SL_LOAD_D=u:\rdb\loaddata
set WK1_D=u:\rdb\sortwk1
set WK2_D=t:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 1054 1062 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_118_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1054_1062
del /Q
%SL_LOAD_D%\Customer\1054_1062
rdbloader -mi -i TPCC.HISTORY_118_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1054_1062
del /Q %SL_LOAD_D%\History\1054_1062
wtpccd1.c.dec_to_int.bin a 1063 1071 C
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.CUSTOMER_119_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1063_1071
del /Q
%SL_LOAD_D%\Customer\1063_1071
rdbloader -mi -i TPCC.HISTORY_119_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1063_1071
del /Q %SL_LOAD_D%\History\1063_1071
wtpccd1.c.dec_to_int.bin a 1072 1080 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_120_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1072_1080
del /Q
%SL_LOAD_D%\Customer\1072_1080
rdbloader -mi -i TPCC.HISTORY_120_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1072_1080
del /Q %SL_LOAD_D%\History\1072_1080
wtpccd1.c.dec_to_int.bin a 1081 1089 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_121_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1081_1089
del /Q
%SL_LOAD_D%\Customer\1081_1089
rdbloader -mi -i TPCC.HISTORY_121_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1081_1089
del /Q %SL_LOAD_D%\History\1081_1089
wtpccd1.c.dec_to_int.bin a 1090 1098 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_122_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1090_1098
del /Q
%SL_LOAD_D%\Customer\1090_1098
rdbloader -mi -i TPCC.HISTORY_122_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1090_1098
del /Q %SL_LOAD_D%\History\1090_1098
wtpccd1.c.dec_to_int.bin a 1099 1107 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_123_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1099_1107
del /Q
%SL_LOAD_D%\Customer\1099_1107
rdbloader -mi -i TPCC.HISTORY_123_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1099_1107
del /Q %SL_LOAD_D%\History\1099_1107
wtpccd1.c.dec_to_int.bin a 1108 1116 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_124_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1108_1116
del /Q
%SL_LOAD_D%\Customer\1108_1116
rdbloader -mi -i TPCC.HISTORY_124_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1108_1116
del /Q %SL_LOAD_D%\History\1108_1116
wtpccd1.c.dec_to_int.bin a 1117 1125 C
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.CUSTOMER_125_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1117_1125
del /Q
%SL_LOAD_D%\Customer\1117_1125
rdbloader -mi -i TPCC.HISTORY_125_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1117_1125
del /Q %SL_LOAD_D%\History\1117_1125
wtpccd1.c.dec_to_int.bin a 1126 1134 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_126_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1126_1134
del /Q
%SL_LOAD_D%\Customer\1126_1134
rdbloader -mi -i TPCC.HISTORY_126_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1126_1134
del /Q %SL_LOAD_D%\History\1126_1134

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 1054 1062 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_118_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1054_1062
del /Q
%SL_LOAD_D%\OrderLine\1054_1062
rdbloader -mi -i TPCC.ORDERLIN_118_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1054_1062
del /Q %SL_LOAD_D%\Orders\1054_1062
rdbloader -mi -i
TPCC.NEWORDER_118_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1054_1062
del /Q
%SL_LOAD_D%\NewOrder\1054_1062
wtpccd1.c.dec_to_int.bin a 1063 1071 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_119_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1063_1071
del /Q
%SL_LOAD_D%\OrderLine\1063_1071
rdbloader -mi -i TPCC.ORDERLIN_119_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1063_1071
del /Q %SL_LOAD_D%\Orders\1063_1071
rdbloader -mi -i
TPCC.NEWORDER_119_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1063_1071
del /Q
%SL_LOAD_D%\NewOrder\1063_1071
wtpccd1.c.dec_to_int.bin a 1072 1080 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_120_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1072_1080

```

```

del /Q
%SL_LOAD_D%\OrderLine\1072_1080
rdbloader -mi -i TPCC.ORDERLIN_120_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1072_1080
del /Q %SL_LOAD_D%\Orders\1072_1080
rdbloader -mi -i
TPCC.NEWORDER_120_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1072_1080
del /Q
%SL_LOAD_D%\NewOrder\1072_1080
wtpccd1.c.dec_to_int.bin a 1081 1089 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_121_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1081_1089
del /Q
%SL_LOAD_D%\OrderLine\1081_1089
rdbloader -mi -i TPCC.ORDERLIN_121_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1081_1089
del /Q %SL_LOAD_D%\Orders\1081_1089
rdbloader -mi -i
TPCC.NEWORDER_121_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1081_1089
del /Q
%SL_LOAD_D%\NewOrder\1081_1089
wtpccd1.c.dec_to_int.bin a 1090 1098 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_122_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1090_1098
del /Q
%SL_LOAD_D%\OrderLine\1090_1098
rdbloader -mi -i TPCC.ORDERLIN_122_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1090_1098
del /Q %SL_LOAD_D%\Orders\1090_1098
rdbloader -mi -i
TPCC.NEWORDER_122_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1090_1098
del /Q
%SL_LOAD_D%\NewOrder\1090_1098
wtpccd1.c.dec_to_int.bin a 1099 1107 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_123_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1099_1107
del /Q
%SL_LOAD_D%\OrderLine\1099_1107
rdbloader -mi -i TPCC.ORDERLIN_123_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1099_1107
del /Q %SL_LOAD_D%\Orders\1099_1107
rdbloader -mi -i
TPCC.NEWORDER_123_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1099_1107
del /Q
%SL_LOAD_D%\NewOrder\1099_1107
wtpccd1.c.dec_to_int.bin a 1108 1116 O
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.ORDERLIN_124_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1108_1116
del /Q
%SL_LOAD_D%\OrderLine\1108_1116
rdbloader -mi -i TPCC.ORDER_124_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1108_1116
del /Q %SL_LOAD_D%\Orders\1108_1116
rdbloader -mi -i
TPCC.NEWORDER_124_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1108_1116
del /Q
%SL_LOAD_D%\NewOrder\1108_1116
wtpcc1.c.dec_to_int.bin a 1117 1125 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_125_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1117_1125
del /Q
%SL_LOAD_D%\OrderLine\1117_1125
rdbloader -mi -i TPCC.ORDER_125_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1117_1125
del /Q %SL_LOAD_D%\Orders\1117_1125
rdbloader -mi -i
TPCC.NEWORDER_125_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1117_1125
del /Q
%SL_LOAD_D%\NewOrder\1117_1125
wtpcc1.c.dec_to_int.bin a 1126 1134 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_126_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1126_1134
del /Q
%SL_LOAD_D%\OrderLine\1126_1134
rdbloader -mi -i TPCC.ORDER_126_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1126_1134
del /Q %SL_LOAD_D%\Orders\1126_1134
rdbloader -mi -i
TPCC.NEWORDER_126_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1126_1134
del /Q
%SL_LOAD_D%\NewOrder\1126_1134

@echo sload_1404-14 sleep 30m .....
sleep 30m

@rem ### Stock ###
wtpcc1.c.dec_to_int.bin a 1054 1080 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_40_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1054_1080
del /Q %SL_LOAD_D%\Stock\1054_1080

wtpcc1.c.dec_to_int.bin a 1081 1107 S
%SL_LOAD_D%

```

```

rdbloader -mi -i TPCC.STOCK_41_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1081_1107
del /Q %SL_LOAD_D%\Stock\1081_1107

wtpcc1.c.dec_to_int.bin a 1108 1134 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_42_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1108_1134
del /Q %SL_LOAD_D%\Stock\1108_1134

File: sload_1404-15.bat

set SL_LOAD_D=v:\rdb\loaddata
set WK1_D=v:\rdb\sortwk1
set WK2_D=w:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
wtpcc1.c.dec_to_int.bin a 1135 1143 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_127_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1135_1143
del /Q
%SL_LOAD_D%\Customer\1135_1143
rdbloader -mi -i TPCC.HISTORY_127_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1135_1143
del /Q %SL_LOAD_D%\History\1135_1143
wtpcc1.c.dec_to_int.bin a 1144 1152 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_128_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1144_1152
del /Q
%SL_LOAD_D%\Customer\1144_1152
rdbloader -mi -i TPCC.HISTORY_128_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1144_1152
del /Q %SL_LOAD_D%\History\1144_1152
wtpcc1.c.dec_to_int.bin a 1153 1161 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_129_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1153_1161
del /Q
%SL_LOAD_D%\Customer\1153_1161
rdbloader -mi -i TPCC.HISTORY_129_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1153_1161
del /Q %SL_LOAD_D%\History\1153_1161
wtpcc1.c.dec_to_int.bin a 1162 1170 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_130_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1162_1170
del /Q
%SL_LOAD_D%\Customer\1162_1170
rdbloader -mi -i TPCC.HISTORY_130_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1162_1170
del /Q %SL_LOAD_D%\History\1162_1170

```

```

wtpcc1.c.dec_to_int.bin a 1171 1179 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_131_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1171_1179
del /Q
%SL_LOAD_D%\Customer\1171_1179
rdbloader -mi -i TPCC.HISTORY_131_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1171_1179
del /Q %SL_LOAD_D%\History\1171_1179
wtpcc1.c.dec_to_int.bin a 1180 1188 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_132_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1180_1188
del /Q
%SL_LOAD_D%\Customer\1180_1188
rdbloader -mi -i TPCC.HISTORY_132_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1180_1188
del /Q %SL_LOAD_D%\History\1180_1188
wtpcc1.c.dec_to_int.bin a 1189 1197 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_133_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1189_1197
del /Q
%SL_LOAD_D%\Customer\1189_1197
rdbloader -mi -i TPCC.HISTORY_133_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1189_1197
del /Q %SL_LOAD_D%\History\1189_1197
wtpcc1.c.dec_to_int.bin a 1198 1206 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_134_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1198_1206
del /Q
%SL_LOAD_D%\Customer\1198_1206
rdbloader -mi -i TPCC.HISTORY_134_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1198_1206
del /Q %SL_LOAD_D%\History\1198_1206
wtpcc1.c.dec_to_int.bin a 1207 1215 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_135_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1207_1215
del /Q
%SL_LOAD_D%\Customer\1207_1215
rdbloader -mi -i TPCC.HISTORY_135_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1207_1215
del /Q %SL_LOAD_D%\History\1207_1215

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpcc1.c.dec_to_int.bin a 1135 1143 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_127_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1135_1143
del /Q
%SL_LOAD_D%\OrderLine\1135_1143

```

```

rdbloader -mi -i TPCC.ORDERS_127_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1135_1143
del /Q %SL_LOAD_D%\Orders\1135_1143
rdbloader -mi -i
TPCC.NEWORDER_127_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1135_1143
del /Q
%SL_LOAD_D%\NewOrder\1135_1143
wtpccd1.c.dec_to_int.bin a 1144 1152 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_128_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1144_1152
del /Q
%SL_LOAD_D%\OrderLine\1144_1152
rdbloader -mi -i TPCC.ORDERS_128_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1144_1152
del /Q %SL_LOAD_D%\Orders\1144_1152
rdbloader -mi -i
TPCC.NEWORDER_128_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1144_1152
del /Q
%SL_LOAD_D%\NewOrder\1144_1152
wtpccd1.c.dec_to_int.bin a 1153 1161 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_129_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1153_1161
del /Q
%SL_LOAD_D%\OrderLine\1153_1161
rdbloader -mi -i TPCC.ORDERS_129_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1153_1161
del /Q %SL_LOAD_D%\Orders\1153_1161
rdbloader -mi -i
TPCC.NEWORDER_129_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1153_1161
del /Q
%SL_LOAD_D%\NewOrder\1153_1161
wtpccd1.c.dec_to_int.bin a 1162 1170 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_130_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1162_1170
del /Q
%SL_LOAD_D%\OrderLine\1162_1170
rdbloader -mi -i TPCC.ORDERS_130_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1162_1170
del /Q %SL_LOAD_D%\Orders\1162_1170
rdbloader -mi -i
TPCC.NEWORDER_130_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1162_1170
del /Q
%SL_LOAD_D%\NewOrder\1162_1170
wtpccd1.c.dec_to_int.bin a 1171 1179 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_131_DSI -h -s

```

```

%WK1_D%
%SL_LOAD_D%\OrderLine\1171_1179
del /Q
%SL_LOAD_D%\OrderLine\1171_1179
rdbloader -mi -i TPCC.ORDERS_131_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1171_1179
del /Q %SL_LOAD_D%\Orders\1171_1179
rdbloader -mi -i
TPCC.NEWORDER_131_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1171_1179
del /Q
%SL_LOAD_D%\NewOrder\1171_1179
wtpccd1.c.dec_to_int.bin a 1180 1188 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_132_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1180_1188
del /Q
%SL_LOAD_D%\OrderLine\1180_1188
rdbloader -mi -i TPCC.ORDERS_132_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1180_1188
del /Q %SL_LOAD_D%\Orders\1180_1188
rdbloader -mi -i
TPCC.NEWORDER_132_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1180_1188
del /Q
%SL_LOAD_D%\NewOrder\1180_1188
wtpccd1.c.dec_to_int.bin a 1189 1197 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_133_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1189_1197
del /Q
%SL_LOAD_D%\OrderLine\1189_1197
rdbloader -mi -i TPCC.ORDERS_133_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1189_1197
del /Q %SL_LOAD_D%\Orders\1189_1197
rdbloader -mi -i
TPCC.NEWORDER_133_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1189_1197
del /Q
%SL_LOAD_D%\NewOrder\1189_1197
wtpccd1.c.dec_to_int.bin a 1198 1206 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_134_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1198_1206
del /Q
%SL_LOAD_D%\OrderLine\1198_1206
rdbloader -mi -i TPCC.ORDERS_134_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1198_1206
del /Q %SL_LOAD_D%\Orders\1198_1206
rdbloader -mi -i
TPCC.NEWORDER_134_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1198_1206
del /Q
%SL_LOAD_D%\NewOrder\1198_1206

```

```

wtpccd1.c.dec_to_int.bin a 1207 1215 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_135_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1207_1215
del /Q
%SL_LOAD_D%\OrderLine\1207_1215
rdbloader -mi -i TPCC.ORDERS_135_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1207_1215
del /Q %SL_LOAD_D%\Orders\1207_1215
rdbloader -mi -i
TPCC.NEWORDER_135_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1207_1215
del /Q
%SL_LOAD_D%\NewOrder\1207_1215

@echo sload_1404-15 sleep 30m ....
sleep 30m

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 1135 1161 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_43_DSI
-s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1135_1161
del /Q %SL_LOAD_D%\Stock\1135_1161

wtpccd1.c.dec_to_int.bin a 1162 1188 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_44_DSI
-s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1162_1188
del /Q %SL_LOAD_D%\Stock\1162_1188

wtpccd1.c.dec_to_int.bin a 1189 1215 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_45_DSI
-s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1189_1215
del /Q %SL_LOAD_D%\Stock\1189_1215

File: sload_1404-16.bat

set SL_LOAD_D=w:\rdb\loaddata
set WK1_D=w:\rdb\sortwk1
set WK2_D=v:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 1216 1224 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_136_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1216_1224
del /Q
%SL_LOAD_D%\Customer\1216_1224
rdbloader -mi -i TPCC.HISTORY_136_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1216_1224
del /Q %SL_LOAD_D%\History\1216_1224

```

```

    wtpccd1.c.dec_to_int.bin a 1225 1233 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_137_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1225_1233
del /Q
%SL_LOAD_D%\Customer\1225_1233
    rdbloader -mi -i TPCC.HISTORY_137_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1225_1233
del /Q %SL_LOAD_D%\History\1225_1233
wtpccd1.c.dec_to_int.bin a 1234 1242 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_138_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1234_1242
del /Q
%SL_LOAD_D%\Customer\1234_1242
    rdbloader -mi -i TPCC.HISTORY_138_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1234_1242
del /Q %SL_LOAD_D%\History\1234_1242
wtpccd1.c.dec_to_int.bin a 1243 1251 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_139_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1243_1251
del /Q
%SL_LOAD_D%\Customer\1243_1251
    rdbloader -mi -i TPCC.HISTORY_139_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1243_1251
del /Q %SL_LOAD_D%\History\1243_1251
wtpccd1.c.dec_to_int.bin a 1252 1260 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_140_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1252_1260
del /Q
%SL_LOAD_D%\Customer\1252_1260
    rdbloader -mi -i TPCC.HISTORY_140_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1252_1260
del /Q %SL_LOAD_D%\History\1252_1260
wtpccd1.c.dec_to_int.bin a 1261 1269 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_141_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1261_1269
del /Q
%SL_LOAD_D%\Customer\1261_1269
    rdbloader -mi -i TPCC.HISTORY_141_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1261_1269
del /Q %SL_LOAD_D%\History\1261_1269
wtpccd1.c.dec_to_int.bin a 1270 1278 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_142_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1270_1278
del /Q
%SL_LOAD_D%\Customer\1270_1278
    rdbloader -mi -i TPCC.HISTORY_142_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1270_1278
del /Q %SL_LOAD_D%\History\1270_1278
wtpccd1.c.dec_to_int.bin a 1279 1287 C
%SL_LOAD_D%

```

```

    rdbloader -mi -i
TPCC.CUSTOMER_143_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1279_1287
del /Q
%SL_LOAD_D%\Customer\1279_1287
    rdbloader -mi -i TPCC.HISTORY_143_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1279_1287
del /Q %SL_LOAD_D%\History\1279_1287
wtpccd1.c.dec_to_int.bin a 1288 1296 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_144_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1288_1296
del /Q
%SL_LOAD_D%\Customer\1288_1296
    rdbloader -mi -i TPCC.HISTORY_144_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1288_1296
del /Q %SL_LOAD_D%\History\1288_1296

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
    wtpccd1.c.dec_to_int.bin a 1216 1224 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_136_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1216_1224
del /Q
%SL_LOAD_D%\OrderLine\1216_1224
    rdbloader -mi -i TPCC.ORDER_136_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1216_1224
del /Q %SL_LOAD_D%\Orders\1216_1224
    rdbloader -mi -i
TPCC.NEWORDER_136_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1216_1224
del /Q
%SL_LOAD_D%\NewOrder\1216_1224
    wtpccd1.c.dec_to_int.bin a 1225 1233 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_137_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1225_1233
del /Q
%SL_LOAD_D%\OrderLine\1225_1233
    rdbloader -mi -i TPCC.ORDER_137_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1225_1233
del /Q %SL_LOAD_D%\Orders\1225_1233
    rdbloader -mi -i
TPCC.NEWORDER_137_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1225_1233
del /Q
%SL_LOAD_D%\NewOrder\1225_1233
    wtpccd1.c.dec_to_int.bin a 1234 1242 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_138_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1234_1242

```

```

del /Q
%SL_LOAD_D%\OrderLine\1234_1242
    rdbloader -mi -i TPCC.ORDER_138_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1234_1242
del /Q %SL_LOAD_D%\Orders\1234_1242
    rdbloader -mi -i
TPCC.NEWORDER_138_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1234_1242
del /Q
%SL_LOAD_D%\NewOrder\1234_1242
    wtpccd1.c.dec_to_int.bin a 1243 1251 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_139_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1243_1251
del /Q
%SL_LOAD_D%\OrderLine\1243_1251
    rdbloader -mi -i TPCC.ORDER_139_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1243_1251
del /Q %SL_LOAD_D%\Orders\1243_1251
    rdbloader -mi -i
TPCC.NEWORDER_139_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1243_1251
del /Q
%SL_LOAD_D%\NewOrder\1243_1251
    wtpccd1.c.dec_to_int.bin a 1252 1260 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_140_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1252_1260
del /Q
%SL_LOAD_D%\OrderLine\1252_1260
    rdbloader -mi -i TPCC.ORDER_140_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1252_1260
del /Q %SL_LOAD_D%\Orders\1252_1260
    rdbloader -mi -i
TPCC.NEWORDER_140_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1252_1260
del /Q
%SL_LOAD_D%\NewOrder\1252_1260
    wtpccd1.c.dec_to_int.bin a 1261 1269 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_141_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1261_1269
del /Q
%SL_LOAD_D%\OrderLine\1261_1269
    rdbloader -mi -i TPCC.ORDER_141_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1261_1269
del /Q %SL_LOAD_D%\Orders\1261_1269
    rdbloader -mi -i
TPCC.NEWORDER_141_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1261_1269
del /Q
%SL_LOAD_D%\NewOrder\1261_1269
    wtpccd1.c.dec_to_int.bin a 1270 1278 O
%SL_LOAD_D%

```

```

rdbloader -mi -i
TPCC.ORDERLIN_142_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1270_1278
del /Q
%SL_LOAD_D%\OrderLine\1270_1278
rdbloader -mi -i TPCC.ORDERS_142_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1270_1278
del /Q %SL_LOAD_D%\Orders\1270_1278
rdbloader -mi -i
TPCC.NEWORDER_142_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1270_1278
del /Q
%SL_LOAD_D%\NewOrder\1270_1278
wtpccd1.c.dec_to_int.bin a 1279 1287 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_143_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1279_1287
del /Q
%SL_LOAD_D%\OrderLine\1279_1287
rdbloader -mi -i TPCC.ORDERS_143_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1279_1287
del /Q %SL_LOAD_D%\Orders\1279_1287
rdbloader -mi -i
TPCC.NEWORDER_143_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1279_1287
del /Q
%SL_LOAD_D%\NewOrder\1279_1287
wtpccd1.c.dec_to_int.bin a 1288 1296 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_144_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1288_1296
del /Q
%SL_LOAD_D%\OrderLine\1288_1296
rdbloader -mi -i TPCC.ORDERS_144_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1288_1296
del /Q %SL_LOAD_D%\Orders\1288_1296
rdbloader -mi -i
TPCC.NEWORDER_144_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1288_1296
del /Q
%SL_LOAD_D%\NewOrder\1288_1296

@echo sload_1404-16 sleep 30m .....
sleep 30m

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 1216 1242 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_46_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1216_1242
del /Q %SL_LOAD_D%\Stock\1216_1242

wtpccd1.c.dec_to_int.bin a 1243 1269 S
%SL_LOAD_D%

```

```

rdbloader -mi -i TPCC.STOCK_47_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1243_1269
del /Q %SL_LOAD_D%\Stock\1243_1269

wtpccd1.c.dec_to_int.bin a 1270 1296 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_48_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1270_1296
del /Q %SL_LOAD_D%\Stock\1270_1296

```

**File: sload\_1404-17.bat**

```

set SL_LOAD_D=z:\rdb\loaddata
set WK1_D=z:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

@rem ### Customer ###
@rem ### History ###
wtpccd1.c.dec_to_int.bin a 1297 1305 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_145_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1297_1305
del /Q
%SL_LOAD_D%\Customer\1297_1305
rdbloader -mi -i TPCC.HISTORY_145_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1297_1305
del /Q %SL_LOAD_D%\History\1297_1305
wtpccd1.c.dec_to_int.bin a 1306 1314 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_146_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1306_1314
del /Q
%SL_LOAD_D%\Customer\1306_1314
rdbloader -mi -i TPCC.HISTORY_146_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1306_1314
del /Q %SL_LOAD_D%\History\1306_1314
wtpccd1.c.dec_to_int.bin a 1315 1323 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_147_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1315_1323
del /Q
%SL_LOAD_D%\Customer\1315_1323
rdbloader -mi -i TPCC.HISTORY_147_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1315_1323
del /Q %SL_LOAD_D%\History\1315_1323
wtpccd1.c.dec_to_int.bin a 1324 1332 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_148_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1324_1332
del /Q
%SL_LOAD_D%\Customer\1324_1332

```

```

rdbloader -mi -i TPCC.HISTORY_148_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1324_1332
del /Q %SL_LOAD_D%\History\1324_1332
wtpccd1.c.dec_to_int.bin a 1333 1341 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_149_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1333_1341
del /Q
%SL_LOAD_D%\Customer\1333_1341
rdbloader -mi -i TPCC.HISTORY_149_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1333_1341
del /Q %SL_LOAD_D%\History\1333_1341
wtpccd1.c.dec_to_int.bin a 1342 1350 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_150_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1342_1350
del /Q
%SL_LOAD_D%\Customer\1342_1350
rdbloader -mi -i TPCC.HISTORY_150_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1342_1350
del /Q %SL_LOAD_D%\History\1342_1350
wtpccd1.c.dec_to_int.bin a 1351 1359 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_151_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1351_1359
del /Q
%SL_LOAD_D%\Customer\1351_1359
rdbloader -mi -i TPCC.HISTORY_151_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1351_1359
del /Q %SL_LOAD_D%\History\1351_1359
wtpccd1.c.dec_to_int.bin a 1360 1368 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_152_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1360_1368
del /Q
%SL_LOAD_D%\Customer\1360_1368
rdbloader -mi -i TPCC.HISTORY_152_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1360_1368
del /Q %SL_LOAD_D%\History\1360_1368
wtpccd1.c.dec_to_int.bin a 1369 1377 C
%SL_LOAD_D%
rdbloader -mi -i
TPCC.CUSTOMER_153_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1369_1377
del /Q
%SL_LOAD_D%\Customer\1369_1377
rdbloader -mi -i TPCC.HISTORY_153_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1369_1377
del /Q %SL_LOAD_D%\History\1369_1377

```

```

@rem ### Orders ###
@rem ### OrderLine ###
@rem ### NewOrder ###
wtpccd1.c.dec_to_int.bin a 1297 1305 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_145_DSI -h -s

```



```

%WK1_D%
%SL_LOAD_D%\OrderLine\1297_1305
del /Q
%SL_LOAD_D%\OrderLine\1297_1305
rdbloader -mi -i TPCC.ORDERS_145_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1297_1305
del /Q %SL_LOAD_D%\Orders\1297_1305
rdbloader -mi -i
TPCC.NEWORDER_145_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1297_1305
del /Q
%SL_LOAD_D%\NewOrder\1297_1305
wtpccd1.c.dec_to_int.bin a 1306 1314 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_146_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1306_1314
del /Q
%SL_LOAD_D%\OrderLine\1306_1314
rdbloader -mi -i TPCC.ORDERS_146_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1306_1314
del /Q %SL_LOAD_D%\Orders\1306_1314
rdbloader -mi -i
TPCC.NEWORDER_146_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1306_1314
del /Q
%SL_LOAD_D%\NewOrder\1306_1314
wtpccd1.c.dec_to_int.bin a 1315 1323 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_147_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1315_1323
del /Q
%SL_LOAD_D%\OrderLine\1315_1323
rdbloader -mi -i TPCC.ORDERS_147_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1315_1323
del /Q %SL_LOAD_D%\Orders\1315_1323
rdbloader -mi -i
TPCC.NEWORDER_147_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1315_1323
del /Q
%SL_LOAD_D%\NewOrder\1315_1323
wtpccd1.c.dec_to_int.bin a 1324 1332 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_148_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1324_1332
del /Q
%SL_LOAD_D%\OrderLine\1324_1332
rdbloader -mi -i TPCC.ORDERS_148_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1324_1332
del /Q %SL_LOAD_D%\Orders\1324_1332
rdbloader -mi -i
TPCC.NEWORDER_148_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1324_1332
del /Q
%SL_LOAD_D%\NewOrder\1324_1332

```

```

wtpccd1.c.dec_to_int.bin a 1333 1341 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_149_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1333_1341
del /Q
%SL_LOAD_D%\OrderLine\1333_1341
rdbloader -mi -i TPCC.ORDERS_149_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1333_1341
del /Q %SL_LOAD_D%\Orders\1333_1341
rdbloader -mi -i
TPCC.NEWORDER_149_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1333_1341
del /Q
%SL_LOAD_D%\NewOrder\1333_1341
wtpccd1.c.dec_to_int.bin a 1342 1350 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_150_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1342_1350
del /Q
%SL_LOAD_D%\OrderLine\1342_1350
rdbloader -mi -i TPCC.ORDERS_150_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1342_1350
del /Q %SL_LOAD_D%\Orders\1342_1350
rdbloader -mi -i
TPCC.NEWORDER_150_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1342_1350
del /Q
%SL_LOAD_D%\NewOrder\1342_1350
wtpccd1.c.dec_to_int.bin a 1351 1359 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_151_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1351_1359
del /Q
%SL_LOAD_D%\OrderLine\1351_1359
rdbloader -mi -i TPCC.ORDERS_151_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1351_1359
del /Q %SL_LOAD_D%\Orders\1351_1359
rdbloader -mi -i
TPCC.NEWORDER_151_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1351_1359
del /Q
%SL_LOAD_D%\NewOrder\1351_1359
wtpccd1.c.dec_to_int.bin a 1360 1368 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_152_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1360_1368
del /Q
%SL_LOAD_D%\OrderLine\1360_1368
rdbloader -mi -i TPCC.ORDERS_152_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1360_1368
del /Q %SL_LOAD_D%\Orders\1360_1368
rdbloader -mi -i
TPCC.NEWORDER_152_DSI -h -f 20 -s

```

```

%WK1_D% -n
%SL_LOAD_D%\NewOrder\1360_1368
del /Q
%SL_LOAD_D%\NewOrder\1360_1368
wtpccd1.c.dec_to_int.bin a 1369 1377 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_153_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1369_1377
del /Q
%SL_LOAD_D%\OrderLine\1369_1377
rdbloader -mi -i TPCC.ORDERS_153_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1369_1377
del /Q %SL_LOAD_D%\Orders\1369_1377
rdbloader -mi -i
TPCC.NEWORDER_153_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1369_1377
del /Q
%SL_LOAD_D%\NewOrder\1369_1377

@echo sload_1404-17 sleep 30m .....
sleep 30m

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 1297 1323 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_49_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1297_1323
del /Q %SL_LOAD_D%\Stock\1297_1323

wtpccd1.c.dec_to_int.bin a 1324 1350 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_50_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1324_1350
del /Q %SL_LOAD_D%\Stock\1324_1350

wtpccd1.c.dec_to_int.bin a 1351 1377 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_51_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1351_1377
del /Q %SL_LOAD_D%\Stock\1351_1377

```

**File: sload 1404-18.bat**

```

set RDBDB=TPCC
set SL_LOAD_D=j:rdbloaddata
set WK1_D=x:rdbsortwk1
set WK2_D=x:rdbsortwk2
set WK3_D=x:rdbsortwk3
set WK4_D=x:rdbsortwk4

@rem del /Q x:rdbloaddata\Item*_*
@rem del /Q x:rdbloaddata\Warehouse*_*
@rem del /Q x:rdbloaddata\District*_*
@rem del /Q x:rdbloaddata\Stock*_*
@rem del /Q x:rdbloaddata\Orders*_*
@rem del /Q x:rdbloaddata\NewOrder*_*
@rem del /Q x:rdbloaddata\OrderLine*_*
@rem del /Q x:rdbloaddata\Customer*_*
@rem del /Q x:rdbloaddata\History*_*

```

```

@rem del /Q x:\rdblsortwk?\ISRT*

@rem ### Customer ###
@rem ### History ###
    wtpccd1.c.dec_to_int.bin a 1378 1386 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_154_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1378_1386
del /Q
%SL_LOAD_D%\Customer\1378_1386
    rdbloader -mi -i TPCC.HISTORY_154_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1378_1386
del /Q %SL_LOAD_D%\History\1378_1386
wtpccd1.c.dec_to_int.bin a 1387 1395 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_155_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1387_1395
del /Q
%SL_LOAD_D%\Customer\1387_1395
    rdbloader -mi -i TPCC.HISTORY_155_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1387_1395
del /Q %SL_LOAD_D%\History\1387_1395
wtpccd1.c.dec_to_int.bin a 1396 1404 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_156_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1396_1404
del /Q
%SL_LOAD_D%\Customer\1396_1404
    rdbloader -mi -i TPCC.HISTORY_156_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1396_1404
del /Q %SL_LOAD_D%\History\1396_1404
wtpccd1.c.dec_to_int.bin a 1405 1413 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_157_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1405_1413
del /Q
%SL_LOAD_D%\Customer\1405_1413
    rdbloader -mi -i TPCC.HISTORY_157_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1405_1413
del /Q %SL_LOAD_D%\History\1405_1413
wtpccd1.c.dec_to_int.bin a 1414 1422 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_158_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1414_1422
del /Q
%SL_LOAD_D%\Customer\1414_1422
    rdbloader -mi -i TPCC.HISTORY_158_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1414_1422
del /Q %SL_LOAD_D%\History\1414_1422
wtpccd1.c.dec_to_int.bin a 1423 1431 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_159_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1423_1431
del /Q
%SL_LOAD_D%\Customer\1423_1431

```

```

    rdbloader -mi -i TPCC.HISTORY_159_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1423_1431
del /Q %SL_LOAD_D%\History\1423_1431
wtpccd1.c.dec_to_int.bin a 1432 1440 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_160_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1432_1440
del /Q
%SL_LOAD_D%\Customer\1432_1440
    rdbloader -mi -i TPCC.HISTORY_160_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1432_1440
del /Q %SL_LOAD_D%\History\1432_1440
wtpccd1.c.dec_to_int.bin a 1441 1449 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_161_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1441_1449
del /Q
%SL_LOAD_D%\Customer\1441_1449
    rdbloader -mi -i TPCC.HISTORY_161_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1441_1449
del /Q %SL_LOAD_D%\History\1441_1449
wtpccd1.c.dec_to_int.bin a 1450 1458 C
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.CUSTOMER_162_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1450_1458
del /Q
%SL_LOAD_D%\Customer\1450_1458
    rdbloader -mi -i TPCC.HISTORY_162_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\History\1450_1458
del /Q %SL_LOAD_D%\History\1450_1458

@rem ### Orders ###
@rem ## OrderLine ###
@rem ### NewOrder ###
    wtpccd1.c.dec_to_int.bin a 1378 1386 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_154_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1378_1386
del /Q
%SL_LOAD_D%\OrderLine\1378_1386
    rdbloader -mi -i TPCC.ORDER_154_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1378_1386
del /Q %SL_LOAD_D%\Orders\1378_1386
    rdbloader -mi -i
TPCC.NEWORDER_154_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1378_1386
del /Q
%SL_LOAD_D%\NewOrder\1378_1386
    wtpccd1.c.dec_to_int.bin a 1387 1395 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_155_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1387_1395
del /Q
%SL_LOAD_D%\OrderLine\1387_1395

```

```

    rdbloader -mi -i TPCC.ORDER_155_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1387_1395
del /Q %SL_LOAD_D%\Orders\1387_1395
    rdbloader -mi -i
TPCC.NEWORDER_155_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1387_1395
del /Q
%SL_LOAD_D%\NewOrder\1387_1395
    wtpccd1.c.dec_to_int.bin a 1396 1404 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_156_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1396_1404
del /Q
%SL_LOAD_D%\OrderLine\1396_1404
    rdbloader -mi -i TPCC.ORDER_156_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1396_1404
del /Q %SL_LOAD_D%\Orders\1396_1404
    rdbloader -mi -i
TPCC.NEWORDER_156_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1396_1404
del /Q
%SL_LOAD_D%\NewOrder\1396_1404
    wtpccd1.c.dec_to_int.bin a 1405 1413 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_157_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1405_1413
del /Q
%SL_LOAD_D%\OrderLine\1405_1413
    rdbloader -mi -i TPCC.ORDER_157_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1405_1413
del /Q %SL_LOAD_D%\Orders\1405_1413
    rdbloader -mi -i
TPCC.NEWORDER_157_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1405_1413
del /Q
%SL_LOAD_D%\NewOrder\1405_1413
    wtpccd1.c.dec_to_int.bin a 1414 1422 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_158_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1414_1422
del /Q
%SL_LOAD_D%\OrderLine\1414_1422
    rdbloader -mi -i TPCC.ORDER_158_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1414_1422
del /Q %SL_LOAD_D%\Orders\1414_1422
    rdbloader -mi -i
TPCC.NEWORDER_158_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1414_1422
del /Q
%SL_LOAD_D%\NewOrder\1414_1422
    wtpccd1.c.dec_to_int.bin a 1423 1431 O
%SL_LOAD_D%
    rdbloader -mi -i
TPCC.ORDERLIN_159_DSI -h -s

```

```

%WK1_D%
%SL_LOAD_D%\OrderLine\1423_1431
del /Q
%SL_LOAD_D%\OrderLine\1423_1431
rdbloader -mi -i TPCC.ORDERS_159_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1423_1431
del /Q %SL_LOAD_D%\Orders\1423_1431
rdbloader -mi -i
TPCC.NEWORDER_159_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1423_1431
del /Q
%SL_LOAD_D%\NewOrder\1423_1431
wtpccd1.c.dec_to_int.bin a 1432 1440 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_160_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1432_1440
del /Q
%SL_LOAD_D%\OrderLine\1432_1440
rdbloader -mi -i TPCC.ORDERS_160_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1432_1440
del /Q %SL_LOAD_D%\Orders\1432_1440
rdbloader -mi -i
TPCC.NEWORDER_160_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1432_1440
del /Q
%SL_LOAD_D%\NewOrder\1432_1440
wtpccd1.c.dec_to_int.bin a 1441 1449 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_161_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1441_1449
del /Q
%SL_LOAD_D%\OrderLine\1441_1449
rdbloader -mi -i TPCC.ORDERS_161_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1441_1449
del /Q %SL_LOAD_D%\Orders\1441_1449
rdbloader -mi -i
TPCC.NEWORDER_161_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1441_1449
del /Q
%SL_LOAD_D%\NewOrder\1441_1449
wtpccd1.c.dec_to_int.bin a 1450 1458 O
%SL_LOAD_D%
rdbloader -mi -i
TPCC.ORDERLIN_162_DSI -h -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1450_1458
del /Q
%SL_LOAD_D%\OrderLine\1450_1458
rdbloader -mi -i TPCC.ORDERS_162_DSI
-h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1450_1458
del /Q %SL_LOAD_D%\Orders\1450_1458
rdbloader -mi -i
TPCC.NEWORDER_162_DSI -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\1450_1458
del /Q
%SL_LOAD_D%\NewOrder\1450_1458

```

```

@rem ### Warehouse ###
wtpccd1.c.dec_to_int.bin a 1405 1458 W
%SL_LOAD_D%
rdbloader -mi -i
TPCC.WAREHOUSE_27_DSI -h -s %WK1_D% -n
%SL_LOAD_D%\Warehouse\1405_1458
del /Q
%SL_LOAD_D%\Warehouse\1405_1458

@rem ### District ###
wtpccd1.c.dec_to_int.bin a 1405 1458 D
%SL_LOAD_D%
rdbloader -mi -i TPCC.DISTRICT_27_DSI
-h -s %WK1_D% -n
%SL_LOAD_D%\District\1405_1458
del /Q %SL_LOAD_D%\District\1405_1458

@echo sload_1404-18 sleep 30m .....
sleep 30m

@rem ### Stock ###
wtpccd1.c.dec_to_int.bin a 1378 1404 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_52_DSI -
s %WK1_D% -s %WK2_D% -n
%SL_LOAD_D%\Stock\1378_1404
del /Q %SL_LOAD_D%\Stock\1378_1404
wtpccd1.c.dec_to_int.bin a 1405 1431 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_53_DSI -
s %WK1_D% -n
%SL_LOAD_D%\Stock\1405_1431
del /Q %SL_LOAD_D%\Stock\1405_1431
wtpccd1.c.dec_to_int.bin a 1432 1458 S
%SL_LOAD_D%
rdbloader -mi -i TPCC.STOCK_54_DSI -
s %WK1_D% -n
%SL_LOAD_D%\Stock\1432_1458
del /Q %SL_LOAD_D%\Stock\1432_1458

```

**File: S-U-01.BAT**

```

@echo #### sload_1404-01 Start ####
call sload_1404-01
@echo #### sload_1404-01 End ####

@echo #### ups_1404-01 Start ####
call ups_1404-01
@echo #### ups_1404-01 End ####

```

**File: S-U-02.BAT**

```

@echo #### sload_1404-02 Start ####
call sload_1404-02
@echo #### sload_1404-02 End ####

@echo #### ups_1404-02 Start ####
call ups_1404-02

```

```
@echo #### ups_1404-02 End ####
```

**File: S-U-03.BAT**

```

@echo #### sload_1404-03 Start ####
call sload_1404-03
@echo #### sload_1404-03 End ####

@echo #### ups_1404-03 Start ####
call ups_1404-03
@echo #### ups_1404-03 End ####

```

**File: S-U-04.BAT**

```

@echo #### sload_1404-04 Start ####
call sload_1404-04
@echo #### sload_1404-04 End ####

@echo #### ups_1404-04 Start ####
call ups_1404-04
@echo #### ups_1404-04 End ####

```

**File: S-U-05.BAT**

```

@echo #### sload_1404-05 Start ####
call sload_1404-05
@echo #### sload_1404-05 End ####

@echo #### ups_1404-05 Start ####
call ups_1404-05
@echo #### ups_1404-05 End ####

```

**File: S-U-06.BAT**

```

@echo #### sload_1404-06 Start ####
call sload_1404-06
@echo #### sload_1404-06 End ####

@echo #### ups_1404-06 Start ####
call ups_1404-06
@echo #### ups_1404-06 End ####

```

**File: S-U-07.BAT**

```

@echo #### sload_1404-07 Start ####
call sload_1404-07
@echo #### sload_1404-07 End ####

@echo #### ups_1404-07 Start ####
call ups_1404-07
@echo #### ups_1404-07 End ####

```

**File: S-U-08.BAT**

```
@echo #### sload_1404-08 Start ####
call sload_1404-08
@echo #### sload_1404-08 End ####
```

```
@echo #### ups_1404-08 Start ####
call ups_1404-08
@echo #### ups_1404-08 End ####
```

**File: S-U-09.BAT**

```
@echo #### sload_1404-09 Start ####
call sload_1404-09
@echo #### sload_1404-09 End ####
```

```
@echo #### ups_1404-09 Start ####
call ups_1404-09
@echo #### ups_1404-09 End ####
```

**File: S-U-10.BAT**

```
@echo #### sload_1404-10 Start ####
call sload_1404-10
@echo #### sload_1404-10 End ####
```

```
@echo #### ups_1404-10 Start ####
call ups_1404-10
@echo #### ups_1404-10 End ####
```

**File: S-U-11.BAT**

```
@echo #### sload_1404-11 Start ####
call sload_1404-11
@echo #### sload_1404-11 End ####
```

```
@echo #### ups_1404-11 Start ####
call ups_1404-11
@echo #### ups_1404-11 End ####
```

**File: S-U-12.BAT**

```
@echo #### sload_1404-12 Start ####
call sload_1404-12
@echo #### sload_1404-12 End ####
```

```
@echo #### ups_1404-12 Start ####
call ups_1404-12
@echo #### ups_1404-12 End ####
```

**File: S-U-13.BAT**

```
@echo #### sload_1404-13 Start ####
call sload_1404-13
@echo #### sload_1404-13 End ####
```

```
@echo #### ups_1404-13 Start ####
call ups_1404-13
@echo #### ups_1404-13 End ####
```

**File: S-U-14.BAT**

```
@echo #### sload_1404-14 Start ####
call sload_1404-14
@echo #### sload_1404-14 End ####
```

```
@echo #### ups_1404-14 Start ####
call ups_1404-14
@echo #### ups_1404-14 End ####
```

**File: S-U-15.BAT**

```
@echo #### sload_1404-15 Start ####
call sload_1404-15
@echo #### sload_1404-15 End ####
```

```
@echo #### ups_1404-15 Start ####
call ups_1404-15
@echo #### ups_1404-15 End ####
```

**File: S-U-16.BAT**

```
@echo #### sload_1404-16 Start ####
call sload_1404-16
@echo #### sload_1404-16 End ####
```

```
@echo #### ups_1404-16 Start ####
call ups_1404-16
@echo #### ups_1404-16 End ####
```

**File: S-U-17.BAT**

```
@echo #### sload_1404-17 Start ####
call sload_1404-17
@echo #### sload_1404-17 End ####
```

```
@echo #### ups_1404-17 Start ####
call ups_1404-17
@echo #### ups_1404-17 End ####
```

**File: S-U-18.BAT**

```
@echo #### sload_1404-18 Start ####
call sload_1404-18
@echo #### sload_1404-18 End ####
```

```
@echo #### ups_1404-18 Start ####
call ups_1404-18
@echo #### ups_1404-18 End ####
```

**File: ups\_1404-01.bat**

```
set SL_LOAD_D=h:\rdb\loaddata
set WK1_D=h:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4
```

```

rdbups -i TPCC.WAREHOUSE_1_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_2_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_3_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_4_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_5_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_6_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_7_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_8_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_9_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_10_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_11_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_12_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_13_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_14_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_15_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_16_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_17_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_18_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_19_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_20_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_21_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_22_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_23_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_24_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_25_DSI -
s %WK1_D%
rdbups -i TPCC.WAREHOUSE_26_DSI -
s %WK1_D%
```



```

    rdbups -i TPCC.STOCK_1_DSI -s
%WK1_D%
    rdbups -i TPCC.STOCK_2_DSI -s
%WK1_D%
    rdbups -i TPCC.STOCK_3_DSI -s
%WK1_D%

    rdbups -i TPCC.ITEM_1_DSI -s %WK1_D%

```

**File: ups\_1404-02.bat**

```

set SL_LOAD_D=i:\rdb\loaddata
set WK1_D=i:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

    rdbups -i TPCC.CUSTOMER_10_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_11_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_12_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_13_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_14_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_15_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_16_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_17_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_18_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_10DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_11DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_12DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_13DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_14DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_15DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_16DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_17DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_18DSI -
s %WK1_D%

    rdbups -i TPCC.ORDER_10_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDER_11_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDER_12_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDER_13_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDER_14_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDER_15_DSI -s
%WK1_D%

```

```

    rdbups -i TPCC.ORDER_16_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDER_17_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDER_18_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDER_IX_10_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDER_IX_11_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDER_IX_12_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDER_IX_13_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDER_IX_14_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDER_IX_15_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDER_IX_16_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDER_IX_17_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDER_IX_18_DSI -
s %WK1_D%

    rdbups -i TPCC.ORDERLIN_10_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERLIN_11_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERLIN_12_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERLIN_13_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERLIN_14_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERLIN_15_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERLIN_16_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERLIN_17_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERLIN_18_DSI -
s %WK1_D%

    rdbups -i TPCC.NEWORDER_10_DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_11_DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_12_DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_13_DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_14_DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_15_DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_16_DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_17_DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_18_DSI -
s %WK1_D%

    rdbups -i TPCC.NEWORDER_IX_10DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_11DSI -
s %WK1_D%

```

```

    rdbups -i TPCC.NEWORDER_IX_12DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_13DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_14DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_15DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_16DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_17DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_18DSI -
s %WK1_D%

    rdbups -i TPCC.HISTORY_10_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_11_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_12_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_13_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_14_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_15_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_16_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_17_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_18_DSI -s
%WK1_D%

    rdbups -i TPCC.STOCK_4_DSI -s
%WK1_D%
    rdbups -i TPCC.STOCK_5_DSI -s
%WK1_D%
    rdbups -i TPCC.STOCK_6_DSI -s
%WK1_D%

```

**File: ups\_1404-03.bat**

```

set SL_LOAD_D=j:\rdb\loaddata
set WK1_D=j:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

    rdbups -i TPCC.CUSTOMER_19_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_20_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_21_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_22_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_23_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_24_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_25_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_26_DSI -
s %WK1_D%

```

```

    rdbups -i TPCC.CUSTOMER_27_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_19DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_20DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_21DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_22DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_23DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_24DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_25DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_26DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_27DSI -s
s %WK1_D%

    rdbups -i TPCC.ORDERS_19_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_20_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_21_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_22_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_23_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_24_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_25_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_26_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_27_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_IX_19_DSI -s
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_20_DSI -s
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_21_DSI -s
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_22_DSI -s
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_23_DSI -s
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_24_DSI -s
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_25_DSI -s
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_26_DSI -s
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_27_DSI -s
s %WK1_D%

    rdbups -i TPCC.ORDERLIN_19_DSI -s
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_20_DSI -s
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_21_DSI -s
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_22_DSI -s
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_23_DSI -s
-s %WK1_D%

```

```

    rdbups -i TPCC.ORDERLIN_24_DSI -s
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_25_DSI -s
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_26_DSI -s
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_27_DSI -s
-s %WK1_D%

    rdbups -i TPCC.NEWORDER_19_DSI -s
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_20_DSI -s
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_21_DSI -s
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_22_DSI -s
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_23_DSI -s
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_24_DSI -s
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_25_DSI -s
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_26_DSI -s
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_27_DSI -s
-s %WK1_D%

    rdbups -i TPCC.NEWORDER_IX_19DSI -s
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_20DSI -s
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_21DSI -s
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_22DSI -s
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_23DSI -s
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_24DSI -s
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_25DSI -s
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_26DSI -s
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_27DSI -s
s %WK1_D%

    rdbups -i TPCC.HISTORY_19_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_20_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_21_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_22_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_23_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_24_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_25_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_26_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_27_DSI -s
%WK1_D%

    rdbups -i TPCC.STOCK_7_DSI -s
%WK1_D%

```

```

    rdbups -i TPCC.STOCK_8_DSI -s
%WK1_D%
    rdbups -i TPCC.STOCK_9_DSI -s
%WK1_D%

File: ups_1404-04.bat

set SL_LOAD_D=k:\rdb\loaddata
set WK1_D=k:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

    rdbups -i TPCC.CUSTOMER_28_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_29_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_30_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_31_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_32_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_33_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_34_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_35_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_36_DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_28DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_29DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_30DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_31DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_32DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_33DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_34DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_35DSI -s
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_36DSI -s
s %WK1_D%

    rdbups -i TPCC.ORDERS_28_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_29_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_30_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_31_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_32_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_33_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_34_DSI -s
%WK1_D%

```

```

rdbups -i TPCC.ORDERS_35_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_36_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_IX_28_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_29_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_30_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_31_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_32_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_33_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_34_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_35_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_36_DSI -
s %WK1_D%

rdbups -i TPCC.ORDERLIN_28_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_29_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_30_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_31_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_32_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_33_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_34_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_35_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_36_DSI
-s %WK1_D%

rdbups -i TPCC.NEWORDER_28_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_29_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_30_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_31_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_32_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_33_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_34_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_35_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_36_DSI
-s %WK1_D%

rdbups -i TPCC.NEWORDER_IX_28DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_29DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_30DSI -
s %WK1_D%

```

```

rdbups -i TPCC.NEWORDER_IX_31DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_32DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_33DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_34DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_35DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_36DSI -
s %WK1_D%

rdbups -i TPCC.HISTORY_28_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_29_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_30_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_31_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_32_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_33_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_34_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_35_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_36_DSI -s
%WK1_D%

rdbups -i TPCC.STOCK_10_DSI -s
%WK1_D%
rdbups -i TPCC.STOCK_11_DSI -s
%WK1_D%
rdbups -i TPCC.STOCK_12_DSI -s
%WK1_D%

File: ups_1404-05.bat

set SL_LOAD_D=I:\rdb\loaddata
set WK1_D=I:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

rdbups -i TPCC.CUSTOMER_37_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_38_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_39_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_40_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_41_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_42_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_43_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_44_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_45_DSI -
s %WK1_D%

```

```

rdbups -i TPCC.CUSTOMER_IX_37DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_38DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_39DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_40DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_41DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_42DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_43DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_44DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_45DSI -
s %WK1_D%

rdbups -i TPCC.ORDERS_37_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_38_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_39_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_40_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_41_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_42_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_43_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_44_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_45_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_IX_37_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_38_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_39_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_40_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_41_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_42_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_43_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_44_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_45_DSI -
s %WK1_D%

rdbups -i TPCC.ORDERLIN_37_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_38_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_39_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_40_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_41_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_42_DSI
-s %WK1_D%

```



```

rdbups -i TPCC.ORDERLIN_43_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_44_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_45_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_37_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_38_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_39_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_40_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_41_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_42_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_43_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_44_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_45_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_IX_37DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_38DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_39DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_40DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_41DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_42DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_43DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_44DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_45DSI -s %WK1_D%

rdbups -i TPCC.HISTORY_37_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_38_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_39_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_40_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_41_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_42_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_43_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_44_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_45_DSI -s %WK1_D%

rdbups -i TPCC.STOCK_13_DSI -s %WK1_D%
rdbups -i TPCC.STOCK_14_DSI -s %WK1_D%

```

```

rdbups -i TPCC.STOCK_15_DSI -s %WK1_D%

File: ups_1404-06.bat
set SL_LOAD_D=m:\rdb\loaddata
set WK1_D=m:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

rdbups -i TPCC.CUSTOMER_46_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_47_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_48_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_49_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_50_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_51_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_52_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_53_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_54_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_46DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_47DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_48DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_49DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_50DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_51DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_52DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_53DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_54DSI -s %WK1_D%

rdbups -i TPCC.ORDERS_46_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_47_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_48_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_49_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_50_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_51_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_52_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_53_DSI -s %WK1_D%

```

```

rdbups -i TPCC.ORDERS_54_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_46_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_47_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_48_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_49_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_50_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_51_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_52_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_53_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_54_DSI -s %WK1_D%

rdbups -i TPCC.ORDERLIN_46_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_47_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_48_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_49_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_50_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_51_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_52_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_53_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_54_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_46_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_47_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_48_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_49_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_50_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_51_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_52_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_53_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_54_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_IX_46DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_47DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_48DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_49DSI -s %WK1_D%

```

```

rdbups -i TPCC.NEWORDER_IX_50DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_51DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_52DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_53DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_54DSI -s %WK1_D%

rdbups -i TPCC.HISTORY_46_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_47_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_48_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_49_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_50_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_51_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_52_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_53_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_54_DSI -s %WK1_D%

rdbups -i TPCC.STOCK_16_DSI -s %WK1_D%
rdbups -i TPCC.STOCK_17_DSI -s %WK1_D%
rdbups -i TPCC.STOCK_18_DSI -s %WK1_D%

```

**File: ups\_1404-07.bat**

```

set SL_LOAD_D=n:\rdb\loaddata
set WK1_D=n:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

```

```

rdbups -i TPCC.CUSTOMER_55_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_56_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_57_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_58_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_59_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_60_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_61_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_62_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_63_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_55DSI -s %WK1_D%

```

```

rdbups -i TPCC.CUSTOMER_IX_56DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_57DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_58DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_59DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_60DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_61DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_62DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_63DSI -s %WK1_D%

rdbups -i TPCC.ORDERS_55_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_56_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_57_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_58_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_59_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_60_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_61_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_62_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_63_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_55_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_56_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_57_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_58_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_59_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_60_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_61_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_62_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_63_DSI -s %WK1_D%

rdbups -i TPCC.ORDERLIN_55_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_56_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_57_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_58_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_59_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_60_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_61_DSI -s %WK1_D%

```

```

rdbups -i TPCC.ORDERLIN_62_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_63_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_55_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_56_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_57_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_58_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_59_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_60_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_61_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_62_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_63_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_IX_55DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_56DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_57DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_58DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_59DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_60DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_61DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_62DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_63DSI -s %WK1_D%

rdbups -i TPCC.HISTORY_55_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_56_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_57_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_58_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_59_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_60_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_61_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_62_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_63_DSI -s %WK1_D%

rdbups -i TPCC.STOCK_19_DSI -s %WK1_D%
rdbups -i TPCC.STOCK_20_DSI -s %WK1_D%
rdbups -i TPCC.STOCK_21_DSI -s %WK1_D%

```

**File: ups\_1404-08.bat**

```

set SL_LOAD_D=o:\rdb\loaddata
set WK1_D=o:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

    rdbups -i TPCC.CUSTOMER_64_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_65_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_66_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_67_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_68_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_69_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_70_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_71_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_72_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_64DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_65DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_66DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_67DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_68DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_69DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_70DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_71DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_72DSI -s %WK1_D%

    rdbups -i TPCC.ORDERS_64_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_65_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_66_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_67_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_68_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_69_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_70_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_71_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_72_DSI -s %WK1_D%

```

```

    rdbups -i TPCC.ORDERS_IX_64_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_65_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_66_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_67_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_68_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_69_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_70_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_71_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_72_DSI -s %WK1_D%

    rdbups -i TPCC.ORDERLIN_64_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_65_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_66_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_67_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_68_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_69_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_70_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_71_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_72_DSI -s %WK1_D%

    rdbups -i TPCC.NEWORDER_64_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_65_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_66_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_67_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_68_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_69_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_70_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_71_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_72_DSI -s %WK1_D%

    rdbups -i TPCC.NEWORDER_IX_64DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_65DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_66DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_67DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_68DSI -s %WK1_D%

```

```

    rdbups -i TPCC.NEWORDER_IX_69DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_70DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_71DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_72DSI -s %WK1_D%

    rdbups -i TPCC.HISTORY_64_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_65_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_66_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_67_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_68_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_69_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_70_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_71_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_72_DSI -s %WK1_D%

    rdbups -i TPCC.STOCK_22_DSI -s %WK1_D%
    rdbups -i TPCC.STOCK_23_DSI -s %WK1_D%
    rdbups -i TPCC.STOCK_24_DSI -s %WK1_D%

```

**File: ups\_1404-09.bat**

```

set SL_LOAD_D=p:\rdb\loaddata
set WK1_D=p:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

    rdbups -i TPCC.CUSTOMER_73_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_74_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_75_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_76_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_77_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_78_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_79_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_80_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_81_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_73DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_74DSI -s %WK1_D%

```

```

rdbups -i TPCC.CUSTOMER_IX_75DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_76DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_77DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_78DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_79DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_80DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_81DSI -s %WK1_D%

rdbups -i TPCC.ORDERS_73_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_74_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_75_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_76_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_77_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_78_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_79_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_80_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_81_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_73_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_74_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_75_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_76_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_77_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_78_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_79_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_80_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_81_DSI -s %WK1_D%

rdbups -i TPCC.ORDERLIN_73_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_74_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_75_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_76_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_77_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_78_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_79_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_80_DSI -s %WK1_D%

```

```

rdbups -i TPCC.ORDERLIN_81_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_73_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_74_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_75_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_76_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_77_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_78_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_79_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_80_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_81_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_IX_73DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_74DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_75DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_76DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_77DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_78DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_79DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_80DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_81DSI -s %WK1_D%

rdbups -i TPCC.HISTORY_73_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_74_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_75_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_76_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_77_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_78_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_79_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_80_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_81_DSI -s %WK1_D%

rdbups -i TPCC.STOCK_25_DSI -s %WK1_D%
rdbups -i TPCC.STOCK_26_DSI -s %WK1_D%
rdbups -i TPCC.STOCK_27_DSI -s %WK1_D%

```

**File: ups\_1404-10.bat**

```

set SL_LOAD_D=q:\rdb\loaddata
set WK1_D=q:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

rdbups -i TPCC.CUSTOMER_82_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_83_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_84_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_85_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_86_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_87_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_88_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_89_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_90_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_82DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_83DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_84DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_85DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_86DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_87DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_88DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_89DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_90DSI -s %WK1_D%

rdbups -i TPCC.ORDERS_82_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_83_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_84_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_85_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_86_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_87_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_88_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_89_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_90_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_82_DSI -s %WK1_D%

```

```

    rdbups -i TPCC.ORDERS_IX_83_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_84_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_85_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_86_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_87_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_88_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_89_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_90_DSI -
s %WK1_D%

    rdbups -i TPCC.ORDERLIN_82_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_83_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_84_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_85_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_86_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_87_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_88_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_89_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_90_DSI
-s %WK1_D%

    rdbups -i TPCC.NEWORDER_82_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_83_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_84_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_85_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_86_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_87_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_88_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_89_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_90_DSI
-s %WK1_D%

    rdbups -i TPCC.NEWORDER_IX_82DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_83DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_84DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_85DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_86DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_87DSI -
s %WK1_D%

    rdbups -i TPCC.NEWORDER_IX_88DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_89DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_90DSI -
s %WK1_D%

    rdbups -i TPCC.HISTORY_82_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_83_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_84_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_85_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_86_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_87_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_88_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_89_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_90_DSI -s
%WK1_D%

    rdbups -i TPCC.STOCK_28_DSI -s
%WK1_D%
    rdbups -i TPCC.STOCK_29_DSI -s
%WK1_D%
    rdbups -i TPCC.STOCK_30_DSI -s
%WK1_D%

File: ups 1404-11.bat

set SL_LOAD_D=r:\rdblloaddata
set WK1_D=r:\rdbsortwk1
set WK2_D=x:\rdbsortwk2
set WK3_D=x:\rdbsortwk3
set WK4_D=x:\rdbsortwk4

    rdbups -i TPCC.CUSTOMER_91_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_92_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_93_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_94_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_95_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_96_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_97_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_98_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_99_DSI -
s %WK1_D%

    rdbups -i TPCC.CUSTOMER_IX_91DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_92DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_93DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_94DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_95DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_96DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_97DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_98DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_99DSI -
s %WK1_D%

    rdbups -i TPCC.ORDERS_91_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_92_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_93_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_94_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_95_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_96_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_97_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_98_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_99_DSI -s
%WK1_D%

    rdbups -i TPCC.ORDERS_IX_91_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_92_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_93_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_94_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_95_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_96_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_97_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_98_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_99_DSI -
s %WK1_D%

    rdbups -i TPCC.ORDERLIN_91_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_92_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_93_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_94_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_95_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_96_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_97_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_98_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_99_DSI
-s %WK1_D%

```

```

rdbups -i TPCC.NEWORDER_91_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_92_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_93_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_94_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_95_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_96_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_97_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_98_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_99_DSI
-s %WK1_D%

rdbups -i TPCC.NEWORDER_IX_91_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_92_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_93_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_94_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_95_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_96_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_97_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_98_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_99_DSI -
s %WK1_D%

rdbups -i TPCC.HISTORY_91_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_92_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_93_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_94_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_95_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_96_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_97_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_98_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_99_DSI -s
%WK1_D%

rdbups -i TPCC.STOCK_31_DSI -s
%WK1_D%
rdbups -i TPCC.STOCK_32_DSI -s
%WK1_D%
rdbups -i TPCC.STOCK_33_DSI -s
%WK1_D%

```

**File: ups\_1404-12.bat**

```

set SL_LOAD_D=s:\rdb\loaddata
set WK1_D=s:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

rdbups -i TPCC.CUSTOMER_100_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_101_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_102_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_103_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_104_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_105_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_106_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_107_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_108_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_100_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_101_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_102_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_103_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_104_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_105_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_106_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_107_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_108_DSI -
s %WK1_D%

rdbups -i TPCC.ORDERS_100_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_101_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_102_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_103_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_104_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_105_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_106_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_107_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_108_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_IX_100_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_101_DSI -
s %WK1_D%

```

```

rdbups -i TPCC.ORDERS_IX_102_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_103_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_104_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_105_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_106_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_107_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_108_DSI -
s %WK1_D%

rdbups -i TPCC.ORDERLIN_100_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERLIN_101_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERLIN_102_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERLIN_103_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERLIN_104_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERLIN_105_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERLIN_106_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERLIN_107_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERLIN_108_DSI -s
%WK1_D%

rdbups -i TPCC.NEWORDER_100_DSI -s
%WK1_D%
rdbups -i TPCC.NEWORDER_101_DSI -s
%WK1_D%
rdbups -i TPCC.NEWORDER_102_DSI -s
%WK1_D%
rdbups -i TPCC.NEWORDER_103_DSI -s
%WK1_D%
rdbups -i TPCC.NEWORDER_104_DSI -s
%WK1_D%
rdbups -i TPCC.NEWORDER_105_DSI -s
%WK1_D%
rdbups -i TPCC.NEWORDER_106_DSI -s
%WK1_D%
rdbups -i TPCC.NEWORDER_107_DSI -s
%WK1_D%
rdbups -i TPCC.NEWORDER_108_DSI -s
%WK1_D%

rdbups -i TPCC.NEWORDER_IX_100_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_101_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_102_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_103_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_104_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_105_DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_106_DSI -
s %WK1_D%

```

```

    rdbups -i TPCC.NEORDER_IX_107DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_IX_108DSI -s %WK1_D%

    rdbups -i TPCC.HISTORY_100_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_101_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_102_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_103_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_104_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_105_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_106_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_107_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_108_DSI -s %WK1_D%

    rdbups -i TPCC.STOCK_34_DSI -s %WK1_D%
    rdbups -i TPCC.STOCK_35_DSI -s %WK1_D%
    rdbups -i TPCC.STOCK_36_DSI -s %WK1_D%

```

**File: ups\_1404-13.bat**

```

set SL_LOAD_D=t:\rdb\loaddata
set WK1_D=t:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

```

```

    rdbups -i TPCC.CUSTOMER_109_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_110_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_111_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_112_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_113_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_114_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_115_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_116_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_117_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_109DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_110DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_111DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_112DSI -s %WK1_D%

```

```

    rdbups -i TPCC.CUSTOMER_IX_113DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_114DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_115DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_116DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_117DSI -s %WK1_D%

    rdbups -i TPCC.ORDERS_109_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_110_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_111_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_112_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_113_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_114_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_115_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_116_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_117_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_109_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_110_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_111_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_112_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_113_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_114_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_115_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_116_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_117_DSI -s %WK1_D%

    rdbups -i TPCC.ORDERLIN_109_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_110_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_111_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_112_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_113_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_114_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_115_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_116_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_117_DSI -s %WK1_D%

```

```

    rdbups -i TPCC.NEORDER_109_DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_110_DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_111_DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_112_DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_113_DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_114_DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_115_DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_116_DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_117_DSI -s %WK1_D%

    rdbups -i TPCC.NEORDER_IX_109DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_IX_110DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_IX_111DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_IX_112DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_IX_113DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_IX_114DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_IX_115DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_IX_116DSI -s %WK1_D%
    rdbups -i TPCC.NEORDER_IX_117DSI -s %WK1_D%

    rdbups -i TPCC.HISTORY_109_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_110_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_111_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_112_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_113_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_114_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_115_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_116_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_117_DSI -s %WK1_D%

    rdbups -i TPCC.STOCK_37_DSI -s %WK1_D%
    rdbups -i TPCC.STOCK_38_DSI -s %WK1_D%
    rdbups -i TPCC.STOCK_39_DSI -s %WK1_D%

```

**File: ups\_1404-14.bat**

```

set SL_LOAD_D=u:\rdb\loaddata
set WK1_D=u:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

    rdbups -i TPCC.CUSTOMER_118_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_119_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_120_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_121_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_122_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_123_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_124_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_125_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_126_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_118DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_119DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_120DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_121DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_122DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_123DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_124DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_125DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_126DSI -s %WK1_D%

    rdbups -i TPCC.ORDERS_118_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_119_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_120_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_121_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_122_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_123_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_124_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_125_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_126_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_118_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_119_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_120_DSI -s %WK1_D%

```

```

    rdbups -i TPCC.ORDERS_IX_121_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_122_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_123_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_124_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_125_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_126_DSI -s %WK1_D%

    rdbups -i TPCC.ORDERLIN_118_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_119_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_120_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_121_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_122_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_123_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_124_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_125_DSI -s %WK1_D%
    rdbups -i TPCC.ORDERLIN_126_DSI -s %WK1_D%

    rdbups -i TPCC.NEWORDER_118_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_119_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_120_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_121_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_122_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_123_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_124_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_125_DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_126_DSI -s %WK1_D%

    rdbups -i TPCC.NEWORDER_IX_118DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_119DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_120DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_121DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_122DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_123DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_124DSI -s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_125DSI -s %WK1_D%

```

```

    rdbups -i TPCC.NEWORDER_IX_126DSI -s %WK1_D%

    rdbups -i TPCC.HISTORY_118_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_119_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_120_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_121_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_122_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_123_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_124_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_125_DSI -s %WK1_D%
    rdbups -i TPCC.HISTORY_126_DSI -s %WK1_D%

    rdbups -i TPCC.STOCK_40_DSI -s %WK1_D%
    rdbups -i TPCC.STOCK_41_DSI -s %WK1_D%
    rdbups -i TPCC.STOCK_42_DSI -s %WK1_D%

```

**File: ups\_1404-15.bat**

```

set SL_LOAD_D=v:\rdb\loaddata
set WK1_D=v:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

    rdbups -i TPCC.CUSTOMER_127_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_128_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_129_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_130_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_131_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_132_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_133_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_134_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_135_DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_127DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_128DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_129DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_130DSI -s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_131DSI -s %WK1_D%

```



```

    rdbups -i TPCC.CUSTOMER_IX_132DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_133DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_134DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_135DSI -
s %WK1_D%

    rdbups -i TPCC.ORDERS_127_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_128_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_129_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_130_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_131_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_132_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_133_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_134_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_135_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_IX_127_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_128_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_129_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_130_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_131_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_132_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_133_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_134_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_135_DSI -
s %WK1_D%

    rdbups -i TPCC.ORDERLIN_127_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_128_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_129_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_130_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_131_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_132_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_133_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_134_DSI
-s %WK1_D%
    rdbups -i TPCC.ORDERLIN_135_DSI
-s %WK1_D%

    rdbups -i TPCC.NEWORDER_127_DSI
-s %WK1_D%

```

```

    rdbups -i TPCC.NEWORDER_128_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_129_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_130_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_131_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_132_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_133_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_134_DSI
-s %WK1_D%
    rdbups -i TPCC.NEWORDER_135_DSI
-s %WK1_D%

    rdbups -i TPCC.NEWORDER_IX_127DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_128DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_129DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_130DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_131DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_132DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_133DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_134DSI -
s %WK1_D%
    rdbups -i TPCC.NEWORDER_IX_135DSI -
s %WK1_D%

    rdbups -i TPCC.HISTORY_127_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_128_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_129_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_130_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_131_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_132_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_133_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_134_DSI -s
%WK1_D%
    rdbups -i TPCC.HISTORY_135_DSI -s
%WK1_D%

    rdbups -i TPCC.STOCK_43_DSI -s
%WK1_D%
    rdbups -i TPCC.STOCK_44_DSI -s
%WK1_D%
    rdbups -i TPCC.STOCK_45_DSI -s
%WK1_D%

File: ups_1404-16.bat

set SL_LOAD_D=w:\rdb\loaddata
set WK1_D=w:\rdb\sortwk1

```

```

set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

    rdbups -i TPCC.CUSTOMER_136_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_137_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_138_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_139_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_140_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_141_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_142_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_143_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_144_DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_136DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_137DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_138DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_139DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_140DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_141DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_142DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_143DSI -
s %WK1_D%
    rdbups -i TPCC.CUSTOMER_IX_144 DSI -
s %WK1_D%

    rdbups -i TPCC.ORDERS_136_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_137_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_138_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_139_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_140_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_141_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_142_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_143_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_144_DSI -s
%WK1_D%
    rdbups -i TPCC.ORDERS_IX_136_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_137_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_138_DSI -
s %WK1_D%
    rdbups -i TPCC.ORDERS_IX_139_DSI -
s %WK1_D%

```

```

rdbups -i TPCC.ORDERS_IX_140_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_141_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_142_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_143_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_144_DSI -s %WK1_D%

rdbups -i TPCC.ORDERLIN_136_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_137_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_138_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_139_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_140_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_141_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_142_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_143_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_144_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_136_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_137_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_138_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_139_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_140_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_141_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_142_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_143_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_144_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_IX_136DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_137DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_138DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_139DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_140DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_141DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_142DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_143DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_144DSI -s %WK1_D%

```

```

rdbups -i TPCC.HISTORY_136_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_137_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_138_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_139_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_140_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_141_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_142_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_143_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_144_DSI -s %WK1_D%

rdbups -i TPCC.STOCK_46_DSI -s %WK1_D%
rdbups -i TPCC.STOCK_47_DSI -s %WK1_D%
rdbups -i TPCC.STOCK_48_DSI -s %WK1_D%

File: ups_1404-17.bat

set SL_LOAD_D=z:\rdb\loaddata
set WK1_D=z:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

rdbups -i TPCC.CUSTOMER_145_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_146_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_147_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_148_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_149_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_150_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_151_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_152_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_153_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_145DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_146DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_147DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_148DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_149DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_150DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_151DSI -s %WK1_D%

```

```

rdbups -i TPCC.CUSTOMER_IX_152DSI -s %WK1_D%

rdbups -i TPCC.ORDERS_145_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_146_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_147_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_148_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_149_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_150_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_151_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_152_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_145_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_146_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_147_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_148_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_149_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_150_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_151_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_152_DSI -s %WK1_D%

rdbups -i TPCC.ORDERLIN_145_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_146_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_147_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_148_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_149_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_150_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_151_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_152_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_145_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_146_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_147_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_148_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_149_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_150_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_151_DSI -s %WK1_D%

```

```

rdbups -i TPCC.NEWORDER_152_DSI
-s %WK1_D%

rdbups -i TPCC.NEWORDER_IX_145DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_146DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_147DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_148DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_149DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_150DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_151DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_152DSI -
s %WK1_D%

```

```

rdbups -i TPCC.HISTORY_145_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_146_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_147_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_148_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_149_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_150_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_151_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_152_DSI -s
%WK1_D%

```

```

rdbups -i TPCC.STOCK_49_DSI -s
%WK1_D%
rdbups -i TPCC.STOCK_50_DSI -s
%WK1_D%
rdbups -i TPCC.STOCK_51_DSI -s
%WK1_D%

```

**File: ups\_1404-18.bat**

```

set SL_LOAD_D=z:\rdbloaddata
set WK1_D=z:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

```

```

rdbups -i TPCC.CUSTOMER_154_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_155_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_156_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_157_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_158_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_159_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_160_DSI -
s %WK1_D%

```

```

rdbups -i TPCC.CUSTOMER_161_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_162_DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_153DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_154DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_155DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_156DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_157DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_158DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_159DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_160DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_161DSI -
s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_162DSI -
s %WK1_D%

```

```

rdbups -i TPCC.ORDERS_153_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_154_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_155_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_156_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_157_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_158_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_159_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_160_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_161_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_162_DSI -s
%WK1_D%
rdbups -i TPCC.ORDERS_IX_153_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_154_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_155_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_156_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_157_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_158_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_159_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_160_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_161_DSI -
s %WK1_D%
rdbups -i TPCC.ORDERS_IX_162_DSI -
s %WK1_D%

```

```

rdbups -i TPCC.ORDERLIN_153_DSI
-s %WK1_D%

```

```

rdbups -i TPCC.ORDERLIN_154_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_155_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_156_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_157_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_158_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_159_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_160_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_161_DSI
-s %WK1_D%
rdbups -i TPCC.ORDERLIN_162_DSI
-s %WK1_D%

```

```

rdbups -i TPCC.NEWORDER_153_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_154_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_155_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_156_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_157_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_158_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_159_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_160_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_161_DSI
-s %WK1_D%
rdbups -i TPCC.NEWORDER_162_DSI
-s %WK1_D%

```

```

rdbups -i TPCC.NEWORDER_IX_153DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_154DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_155DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_156DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_157DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_158DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_159DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_160DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_161DSI -
s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_162DSI -
s %WK1_D%

```

```

rdbups -i TPCC.HISTORY_153_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_154_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_155_DSI -s
%WK1_D%

```

```

rdbups -i TPCC.HISTORY_156_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_157_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_158_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_159_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_160_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_161_DSI -s
%WK1_D%
rdbups -i TPCC.HISTORY_162_DSI -s
%WK1_D%

rdbups -i TPCC.STOCK_52_DSI -s
%WK1_D%
rdbups -i TPCC.STOCK_53_DSI -s
%WK1_D%
rdbups -i TPCC.STOCK_54_DSI -s
%WK1_D%

rdbups -i TPCC.WAREHOUSE_27_DSI -s
%WK1_D%
rdbups -i TPCC.DISTRICT_27_DSI -s
%WK1_D%

```

**File: wtpcccd1.c.dec to int.bin.c**

```

/*
 * File Name : wtpcccd.ec
 * Function Name : main()
 * : item()
 * : warehouse()
 * : stock()
 * : district()
 * : customer()
 * : orders()
 * : new_order()
 * : make_address()
 * : lastname()
 * : make_alpha_string()
 * : make_number_string()
 * : random_number()
 * : set_seed()
 * : nurand()
 * : init_permutation()
 * : get_permutation()
 * Description : DB tpcc , item,
warehouse, stock,
district, customer, history,
orders, order_line,
new_order
(char )
 * Author :
 * Reviewer :
 * COPYRIGHT FUJITSU Limited 1995
 * 95-03-13 ( : %20s
==> %-s)
 * sprintf & fwrite fprintf (
)

```

```

* - ORDERS ORDER_LINE
NULL
*
* 95-05-16
* - 10warehouse
* 96-04-18
* - W-TAX, D-TAX, C-
DISCOUNT, I-PRICE, OL-AMOUNT, H-AMOUNT
* (DECIMAL ->
SMALLINT or INTEGER)
* - C-SINCE, OL-DELIVERY-D,
O-ENTRY-D
* (DECIMAL ->
CHAR)
* 96-09-06
* - file
* 1.option table
(3 parameter)
* (0..all, 1..IT/ST/HI/CU ,
2..WH/DI/OL/OS/NO)
* 2.file
* (rdb/loaddata/[table
]/[warehouse _ ]
* ex.:
/rdb/loaddata/Customer/10_15 .. Customer Wh10-
15)
* - Text Binary . DECIMAL
* )
* <decimal(a,b) format>
* decimal(10,2)
aa|aa|aa|ab|bs (6byte=a/2+1)
* a=decimal (b
)
* b= (s 8bit
)
* s= .(+) "c", (-)
"d"
* ex.) +12345678.23
= '(0x) 01|23|45|67|82|3b
* program FUNC.
* "record "
(
* )
* ex.) w_ytd = -
123.45;
* :
* :
* :
* ("record "
)
* w_ytd_1 =
0x00;
* w_ytd_2 =
0x00;
* w_ytd_3 =
0x00;
* w_ytd_4 =
0x00;
* w_ytd_5 =
0x12;
* w_ytd_6 =
0x34;
* w_ytd_7 =
0x5d;
*
*
96-11-27

```

```

* - ol_i_id (?)
* ol_i_id 1 10 n
* (: n=2;
2,4,6,...99998,100000)
* n setenv
TPCRANDBY n
* n < TPCRANDBY < 10
or undefined == 1
* 97-02-18
* - C_ID, H_C_ID, O_C_ID
* (SMALLINT ->
INTEGER)
* - I_IM_ID
*
* 97-02-18
* - fprintf -> sprintf + fwrite
* (
item,stock,customer,history,orders,orderline)
* - random_number mac
* - make_alpha_string
make_number_string
* rund .( )
* - make_alpha_string
.
* (ORACLE , HP )
* - get_permutation ,o_c_id
* - TAB ID 221(c_last NURand
C)
* Issue : C Value For NURand
* Specification : TPC-C,Clause 2.1.6
* c_last NURand C
* C-Load : DB C
* C-Run : (tran) C
* C-Delta : | C-Load - C-Run |
* C [0,255]
* C-Delta [65,119] ,96,112
* C-Run , 111
* Online : tranmain Const
* Online : pptcc2(shell) u14i
nurand()
*
* 98-08-03
* - make_alpha_string
*
*/

#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <sys/types.h> /* 1994.12.28 add
kawabata */
#include <sys/stat.h> /* 1995.02.24 add
arakawa */
#include <fcntl.h> /* 1995.02.24 add
arakawa */
#include <time.h>

#define DBNAME "tpcc" /*
DB */
#define MAXITEMS 100000 /*
*/
#define MAXSTOCK 100000 /*
STOCK */

```

```

#define DIST_PER_WARE 10 /*
*/
#define CUST_PER_DIST 3000 /*
*/
#define ORD_PER_DIST 3000 /*
*/
#define NEWWORDS 900 /*
*/
#define CLS_CNT 10000
/* */

#define CMT_CNT 3

#define T256 16777216
#define D256 65536
#define NNUL_V 0x00
#define NUL_V 0xFF

/* 1997-02-18 TAB ID 221(c_last NURand C)
*/
#define C_DELTA 87 /* | C_LOAD -
C_RAN | */
#define C_RUN 111 /* TRAN NURand
C */
#define C_LOAD (C_DELTA+C_RUN) /* DB
LOAD NURand C */

/* 1997-02-18 fprintf -> sprintf + fwrite
*/
#define ITEM_SIZE 84 /* ITEM
*/
#define DISTRICT_SIZE 98 /*
DISTRICT */
#define WAREHOUSE_SIZE 92 /*
WAREHOUSE */
#define STOCK_SIZE 306 /*
STOCK */
#define CUSTOMER_SIZE 672 /*
CUSTOMER */
#define HISTORY_SIZE 54 /* HISTORY
*/
#define ORDERS_SIZE 48 /* ORDERS
(32+16)*/
#define ORDERLINE_SIZE 80 /*
ORDERLINE (60+20)*/
#define NEWORDER 8 /*
HISTORY */

#define ITEM_COUNT 1000 /* ITEM
*/
#define STOCK_COUNT 1000 /*
STOCK */
#define CUSTOMER_COUNT 500 /*
CUSTOMER */
#define HISTORY_COUNT 1000 /*
HISTORY */
#define ORDERS_COUNT 1000 /*
ORDERS */
#define ORDERLINE_COUNT 3000 /*
ORDERLINE */

/*
*/
/*
*/
/* D_BASE */
/* x:\ */
/* 980417 */
#define D_BASE_2 "x:\rdb\loaddata\l"
char D_BASE[32];

```

```

/*
*/
/* */
/* */
char yyyymmddhhmsss[15];

/* ..._1 ..._7 96-09-06
*/
/* (INTEGER:_1 _4 / SMALLINT:_1 _2 /
DECIMAL:_1 _7) */

int i_id;
int i_id_1, i_id_2, i_id_3, i_id_4;
int i_im_id;

/* 97-02-18 */
int i_im_id_1, i_im_id_2, i_im_id_3,
i_im_id_4; /* 97-02-18 */
char i_name[25];
int i_price;
int i_price_1, i_price_2;
char i_data[51];

short w_id;
int w_id_1, w_id_2;
char w_name[11];
char w_street_1[21];
char w_street_2[21];
char w_city[21];
char w_state[3];
char w_zip[10];
int w_tax;
int w_tax_1, w_tax_2;
float w_ytd;
int w_ytd_1, w_ytd_2, w_ytd_3, w_ytd_4,
w_ytd_5, w_ytd_6, w_ytd_7;

int s_i_id;
int s_i_id_1, s_i_id_2, s_i_id_3, s_i_id_4;
short s_w_id;
int s_w_id_1, s_w_id_2;
int s_quantity;
int s_quantity_1, s_quantity_2;
char s_dist_01[25];
char s_dist_02[25];
char s_dist_03[25];
char s_dist_04[25];
char s_dist_05[25];
char s_dist_06[25];
char s_dist_07[25];
char s_dist_08[25];
char s_dist_09[25];
char s_dist_10[25];
int s_ytd;
int s_ytd_1, s_ytd_2, s_ytd_3, s_ytd_4;
int s_order_cnt;
int s_order_cnt_1, s_order_cnt_2;
int s_remote_cnt;
int s_remote_cnt_1, s_remote_cnt_2;
char s_data[51];

short d_id;
int d_id_1, d_id_2;
short d_w_id;
int d_w_id_1, d_w_id_2;
char d_name[11];
char d_street_1[21];

```

```

char d_street_2[21];
char d_city[21];
char d_state[3];
char d_zip[10];
int d_tax;
int d_tax_1, d_tax_2;
char work[10];
float d_ytd;
int d_ytd_1, d_ytd_2, d_ytd_3, d_ytd_4,
d_ytd_5, d_ytd_6, d_ytd_7;
int d_next_o_id;
int d_next_o_id_1, d_next_o_id_2,
d_next_o_id_3, d_next_o_id_4;

int c_id;

/* 97-02-18 short -> int */
int c_id_1, c_id_2, c_id_3, c_id_4; /*
97-02-18 3 4 */
short c_d_id;
int c_d_id_1, c_d_id_2;
short c_w_id;
int c_w_id_1, c_w_id_2;
char c_first[17];
char c_middle[3];
char c_last[17];
char c_street_1[21];
char c_street_2[21];
char c_city[21];
char c_state[3];
char c_zip[10];
/* 980803 K.Sugiyama */
char c_phone[17];
/* 980803 K.Sugiyama */
char c_since[15];
char c_credit[3];
float c_credit_lim;
int c_credit_lim_1, c_credit_lim_2,
c_credit_lim_3, c_credit_lim_4;
int c_credit_lim_5, c_credit_lim_6,
c_credit_lim_7;
int c_discount;
int c_discount_1, c_discount_2;
float c_balance;
int c_balance_1, c_balance_2,
c_balance_3, c_balance_4;
int c_balance_5, c_balance_6,
c_balance_7;
float c_ytd_payment;
int c_ytd_payment_1, c_ytd_payment_2,
c_ytd_payment_3, c_ytd_payment_4;
int c_ytd_payment_5, c_ytd_payment_6,
c_ytd_payment_7;
int c_payment_cnt;
int c_payment_cnt_1, c_payment_cnt_2;
int c_delivery_cnt;
int c_delivery_cnt_1, c_delivery_cnt_2;
char c_data[501];

int h_c_id;

/* 97-02-18 short -> int */
int h_c_id_1, h_c_id_2, h_c_id_3,
h_c_id_4; /* 97-02-18 3 4 */
short h_c_d_id;
int h_c_d_id_1, h_c_d_id_2;
short h_c_w_id;
int h_c_w_id_1, h_c_w_id_2;
short h_d_id;
int h_d_id_1, h_d_id_2;

```

```

short h_w_id;
int h_w_id_1, h_w_id_2;
char h_date[15];
int h_amount;
int h_amount_1, h_amount_2,
h_amount_3, h_amount_4;
char h_data[25];

int o_id;
int o_id_1, o_id_2, o_id_3, o_id_4;

short o_d_id;
int o_d_id_1, o_d_id_2;
short o_w_id;
int o_w_id_1, o_w_id_2;
int o_c_id;
/* 97-02-18 short -> int */
int o_c_id_1, o_c_id_2, o_c_id_3,
o_c_id_4; /* 97-02-18 3 4 */
char o_entry_d[15];
short o_carrier_id;
int o_carrier_id_1, o_carrier_id_2;
short o_ol_cnt;
int o_ol_cnt_1, o_ol_cnt_2;
short o_all_local;
int o_all_local_1, o_all_local_2;

int ol_o_id;
int ol_o_id_1, ol_o_id_2, ol_o_id_3,
ol_o_id_4;
short ol_d_id;
int ol_d_id_1, ol_d_id_2;
short ol_w_id;
int ol_w_id_1, ol_w_id_2;
short ol_number;
int ol_number_1, ol_number_2;
int ol_i_id;
int ol_i_id_1, ol_i_id_2, ol_i_id_3,
ol_i_id_4;
short ol_supply_w_id;
int ol_supply_w_id_1, ol_supply_w_id_2;
char ol_delivery_d[15];
int ol_quantity;
int ol_quantity_1, ol_quantity_2;
int ol_amount;
int ol_amount_1, ol_amount_2,
ol_amount_3, ol_amount_4;
char ol_dist_info[25];

int no_o_id;
int no_o_id_1, no_o_id_2, no_o_id_3,
no_o_id_4;
short no_d_id;
int no_d_id_1, no_d_id_2;
short no_w_id;
int no_w_id_1, no_w_id_2;

/*short c; */ /* NURand */
short ocid[CUST_PER_DIST]; /* o_c_id */
short counter; /* o_c_id */

/* :961127:K.Fukui: I_ID (main ) */
char *EnvGetI_ID;
int I_ID_Rand_by;
/* :961127:K.Fukui: (above is all) */

```

```

void item();
void warehouse();
void stock();
void district();
void customer();
void orders();
void make_address();
void lastname();
int make_alpha_string();
int make_number_string();
#ifdef call_rand
int random_number();
#else
#define random_number(x,y)
((int)((rand()*32768+rand()%(y-x+1)) + x)
#endif
void set_seed();
int nurand();
void init_permutation();
int get_permutation();

/* */
FILE *fst1;
FILE *fst2;
FILE *fst3;
FILE *fst4;
FILE *fst5;
FILE *fst6;
FILE *fst7;
FILE *fst8;
FILE *fst9;
int wst;

char fileout[100]; /* */
char filedum[100];

/*
* Function : main()
* Description : DB , item,
warehouse ,
* Parameters : 1. argc,
* 2. argv,
*
* Globals Ref: nothing
* Globals Out : 1. yyyyymmddhhmmss,
* Returns : 0
* 1
*/

int
main(argc, argv)
int argc;
char **argv;
{
time_t tod; /* */
struct tm *stm; /* */
int count_ware;
int last_ware;
int base_ware;
int make_type;
int mk_loop;
char sw_buf[2];

/* */

```

```

if (argc < 5) {
printf("usage: wtpccc [output_dir] "
[start_warehouse] "
[end_warehouse] "
[maketype].\n\n");
printf(" [maketype] make data seeds
for rdbloader "
(multiple designation available)\n");
printf(" I:Item, D:District,
W:Warehouse, S:Stock,\n");
printf(" C:Customer/History,
O:Orders/OrderLine/NewOrder\n");
exit(1);
}

/* */
strcpy( fileout, argv[1] );
base_ware = atoi(argv[2]);
last_ware = atoi(argv[3]);
/* make_type = atoi(argv[3]); */
count_ware = last_ware - base_ware;
if (count_ware <= 0) {
printf("%s: invalid warehouse
count\n",argv[0]);
// exit(1);
}

/* system("date"); */
/* printf("%s start\n",argv[0]); */
printf("wtpccc: INFO Make-Table: (%d-
%dWH) ",base_ware,last_ware);

/* 980417 */
mk_loop = 4;
// for( mk_loop = 4; mk_loop <= argc-1;
mk_loop++){

strcpy(sw_buf, argv[mk_loop]);

switch( sw_buf[0]){
case 'I': printf("Item, ");
break;
case 'W': printf("Warehouse,
"); break;
case 'S': printf("Stock, ");
break;
case 'D': printf("District, ");
break;
case 'C': printf("Customer,
History, "); break;
case 'O': printf("Orders,
N.Order, O.Line, "); break;
}
// }
/* 980417 */
printf("to %s\n", fileout);

/* :961127:K.Fukui: ITEM_ID (?)( 1 10
n
I_ID )

"TPCRANDBY" integer n
(100000/n NUrand ,
*n )
( 1 < TPCRANDBY < MAXITEMS
"1" ) */

```

```

EnvGetl_ID = getenv( "TPCRANDBY" );

if( EnvGetl_ID == NULL){
    l_ID_Rand_by = 1;
    printf("wtpcc: Warning: "
        "TPCRANDBY: Normal OL_l_ID\n");
} else {

    l_ID_Rand_by = atoi( EnvGetl_ID );
    printf("wtpcc: INFO: "
        "TPCRANDBY: (%d) * OL_l_ID\n",
        l_ID_Rand_by);

    if( ( l_ID_Rand_by < 1 ) || (
        l_ID_Rand_by > MAXSTOCK )){
        l_ID_Rand_by = 1;
        printf("wtpcc: Warning: "
            "TPCRANDBY: OUT of range(1--
            %d)."
            "Normal OL_l_ID\n",
            MAXSTOCK);
    }

}

/* :961127:K.Fukui: (above is all) */

/* wtpccd1.c.dec_to_int.bin a 881 885 O
x:\rdb\loaddata\ */
/* */
if( argc == 6 )
{
    strcpy( D_BASE, argv[5] );
}
else
{
    strcpy( D_BASE, D_BASE_2 );
}

/* */
set_seed(time(0));

/* 1997-02-18 TAB ID 221(c_last NURand C)
*/
/* NURand */
/* c = random_number(0, 255); */
printf("wtpcc: INFO: TAB ID 221 C-Delta =
%d\n",C_DELTA );
printf("      C-Load NURAND C = %d
\n",C_LOAD );
printf("      C-Run NURAND C = %d
\n",C_RUN );

/* */
time(&tod);
stm = localtime(&tod);
sprintf("yyymmddhhmmss,%04d%02d%02
d%02d%02d%02d",
        stm->tm_year+1900,stm-
>tm_mon+1,stm->tm_mday,
        stm->tm_hour,stm-
>tm_min,stm->tm_sec);

/* 980417 */
mk_loop = 4;
// for( mk_loop = 4; mk_loop <= argc-1;
mk_loop++){

```

```

strcpy(sw_buf, argv[mk_loop]);

switch( sw_buf[0] ){
    case 'I':
        if ( base_ware == 1 )
        {
            fprintf(stderr,"wtpcc: INFO: ITEM Start\n");
            /* item */
            item();

            fprintf(stderr,"wtpcc: INFO: ITEM End\n");
        }
        else
        {
            printf("wtpcc: Warning: "
                " warehouse 'I' ",
                "ITEM\n" );
        }
        break;

    case 'W':
        fprintf(stderr,"wtpcc:
INFO: "
        "WAREHOUSE (%d %dwh)
Start\n",
        base_ware,last_ware);
        /* warehouse */

        warehouse(base_ware,last_ware);
        fprintf(stderr,"wtpcc:
INFO: "
        "WAREHOUSE (%d %dwh) End\n",
        base_ware,last_ware);
        break;

    case 'S':
        fprintf(stderr,"wtpcc:
INFO: "
        "STOCK (%d %dwh) Start\n",
        base_ware, last_ware);
        /* stock */

        stock(base_ware,last_ware);
        fprintf(stderr,"wtpcc:
INFO: "
        "STOCK (%d %dwh) End\n",
        base_ware, last_ware);
        break;

    case 'D':
        fprintf(stderr,"wtpcc:
INFO: "
        "DISTRICT (%d %dwh) Start\n",
        base_ware, last_ware);
        /* district */

        district(base_ware,last_ware);
        fprintf(stderr,"wtpcc:
INFO: "
        "DISTRICT (%d %dwh) End\n",
        base_ware, last_ware);
        break;

    case 'C':
        fprintf(stderr,"wtpcc:
INFO: "

```

```

"CUSTOMER/HISTORY (%d
%dwh) Start\n",
        base_ware, last_ware);
        /* customer */

        customer(base_ware,last_ware);
        fprintf(stderr,"wtpcc:
INFO: "
        "CUSTOMER/HISTORY (%d
%dwh) End\n",
        base_ware, last_ware);
        break;

    case 'O':
        fprintf(stderr,"wtpcc:
INFO: "
        "ORDERS/O.LINE/N.ORDER (%d
%dwh) Start\n",
        base_ware, last_ware);
        /* orders */

        orders(base_ware,last_ware);
        fprintf(stderr,"wtpcc:
INFO: "
        "ORDERS/O.LINE/N.ORDER (%d
%dwh) End\n",
        base_ware, last_ware);
    }
}
/* 980417 */

/* system("date"); */

/* */
return(0);
}

/*
* Function : item()
* Description : item
* Parameters : nothing
* Grobals Ref: nothing
* Grobals Out : nothing
* Returns : nothing
*/

void
item()
{
    short idatasiz;
    short orig[MAXITEMS];
    int pos;
    int cnt;
    long d_100 = 100.0;
    /* 1997-02-18 fprintf -> sprintf + fwrite */
    int item_lpcnt ; /*
*/
    char *item_ap ; /*
*/
    char *item_cp ; /*
*/

    char filename[64];

    memset( filename, 0x00, sizeof( filename )
);

```

```

sprintf(filename , "%s\\item\\data", D_BASE
);
/*      */
if ((fst1 = fopen( filename , "wb"))==NULL){
printf("wtppcc: err:
/rdb/loaddata/item/data: can't create file\n");
exit(1);
}
/* 1997-02-18 fprintf -> sprintf + fwrite */
/* ITEM */
item_ap = (char
*)malloc((size_t)ITEM_SIZE*ITEM_COUNT);
if ( item_ap == NULL ) /*
*/
{
/*
*/
printf("Malloc failed.(item)\n") ;/*
*/
exit(1) ;/*
*/
}
/*
*/
item_cp = item_ap ;/*
*/
item_lpcnt = 0 ;/*
*/

/* orig MAXITEMS , i_data
"ORIGINAL"
10 */
memset(orig, 0, sizeof(orig));
for (cnt = 0; cnt < (MAXI TEMS / 10); cnt++)
{
do {
pos = random_number(1,
MAXITEMS);
} while (orig[pos - 1]);
orig[pos - 1] = 1;
}

/* i_id 1-MAXITEMS , MAXITEMS
*/
/* item */
for (i_id = 1; i_id <= MAXITEMS; i_id+ ) {

/* i_name */
make_alpha_string(14, 24, i_name);

/* i_data , 10% ORIGINAL
*/
idatasiz = make_alpha_string(26, 50,
i_data);
if (orig[i_id - 1]) {
pos = random_number(0,
idatasiz - 8);
strncpy(&i_data[pos],
"ORIGINAL", 8);
}

/* */
/* fprintf(fst1,"%d,%-24s",%d,%-
50s\n", i_id,i_name,i_price,i_data); */

/* record : : 96/09/06 */
i_id_1 = i_id / T256;

```

```

i_id_2 = (i_id - (i_id_1 * T256)) /
D256;
i_id_3 = (i_id - (i_id_1 * T256) - (
i_id_2 * D256)) / 256;
i_id_4 = i_id % T256;

/* i_im_id : 97-02-18 start */
i_im_id = random_number(1, 10000);
i_im_id_1 = i_im_id / T256;
i_im_id_2 = (i_im_id - (i_im_id_1 *
T256)) / D256;
i_im_id_3 = (i_im_id - (i_im_id_1 *
T256) - (i_im_id_2 * D256)) / 256;
i_im_id_4 = i_im_id % T256;
/* i_im_id : 97-02-18 end */

/* i_price */
/* i_price /= d_100; */
i_price = random_number(100,
10000);
i_price_1 = i_price / 256;
i_price_2 = i_price % 256;

/*
fprintf(fst1,"%c%c%c%c%-
24s%c%c%-50s"
,i_id_1,i_id_2,i_id_3,i_id_4,i_name,i_price_1
,i_price_2,i_data);
*/
/* fprintf(fst1,"%c%c%c%c%-
24s%c%c%-50s"
,i_id_4,i_id_3,i_id_2,i_id_1,i_name,i_price_2
,i_price_1,i_data);
*/
/* i_im_id 97-02-18 */
sprintf(item_cp,
"%c%c%c%c"
"%c%c%c%c"
"%-24s"
"%c%c"
"%-50s",
// i_id_1,i_id_2,i_id_3,i_id_4,
// i_id_4,i_id_3,i_id_2,i_id_1,
i_im_id_1,i_im_id_2,i_im_id_3,i_im_id_4,
i_im_id_4,i_im_id_3,i_im_id_2,i_im_id_1,
i_name,
// i_price_1,i_price_2,
i_price_2,i_price_1,
i_data);

item_cp = item_cp + ITEM_SIZE ;
item_lpcnt = item_lpcnt + 1 ;

if ( item_lpcnt == ITEM_COUNT )
{
fwrite(item_ap,
(size_t)ITEM_SIZE ,
(size_t)ITEM_COUNT ,
fst1) ;
item_cp = item_ap ;
item_lpcnt = 0 ;
}
}

```

```

/* 1997-02-18 fprintf -> sprintf + fwrite */
if ( item_lpcnt != 0 )
{
fwrite(item_ap
(size_t)ITEM_SIZE ,
(size_t)item_lpcnt ,
fst1) ;
}

/* */
fclose(fst1);

/* */
free(item_ap);

/* */
return;
}

/*
* Function : warehouse()
* Description : warehouse
* Parameters : 1. base_ware,
* Parameters : 2. last_ware,
* Grobals Ref: nothing
* Returns : nothing
*/

void
warehouse(base_ware,last_ware)
int base_ware;
int last_ware;
{

/* */
int filecount = 1;
int outfilecount;
char filename[64];

long d_10000 = 10000.0;
w_ytd = 300000.00; /* record
*/
outfilecount = ((base_ware-1)/10) + 1;

memset( filename, 0x00, sizeof( filename) );

/* */
sprintf(filename , "%s\\Warehouse\\%d_%d",
D_BASE, base_ware, last_ware);
if ((fst2 = fopen(filename , "wb"))==NULL){
printf("wtppcc: err: %s: can't create
file\n",filename);
exit(1);
}

/* w_id , count_ware */
/* warehouse */
for (w_id = base_ware; w_id <= last_ware;
w_id++){

/* w_name */
make_alpha_string(6, 10, w_name);

/* */
make_address(w_street_1,
w_street_2, w_city, w_state, w_zip);

/* w_tax /= d_10000;*/

```











```

//
c_id_1,c_id_2,c_id_3,c_id_4,
c_id_4,c_id_3,c_id_2,c_id_1,
//
c_d_id_1,c_d_id_2,
c_d_id_2,c_d_id_1,
//
c_w_id_1,c_w_id_2,
c_w_id_2,c_w_id_1,
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_1,c_credit_lim_2,c_credit_lim_
3,
c_credit_lim_4,c_credit_lim_5,c_credit_lim_
6,
c_credit_lim_7,
//
c_discount_1,c_discount_2,
c_discount_2,c_discount_1,
c_balance_1,c_balance_2,c_balance_3,c_b
alance_4,
c_balance_5,c_balance_6,c_balance_7,
c_ytd_payment_1,c_ytd_payment_2,c_ytd_
payment_3,
c_ytd_payment_4,c_ytd_payment_5,c_ytd_
payment_6,
c_ytd_payment_7,
//
c_payment_cnt_1,c_payment_cnt_2,
c_payment_cnt_2,c_payment_cnt_1,
//
c_delivery_cnt_1,c_delivery_cnt_2,
c_delivery_cnt_2,c_delivery_cnt_1,
c_data);
customer_cp = customer_cp +
CUSTOMER_SIZE ;
customer_lpcnt = customer_lpcnt + 1
;
/* 97-02-18 h_c_id short -> int */
sprintf(history_cp ,
"%c%c%c%c"
"%c%c"
"%c%c"
"%c%c"
"%c%c"
"%-14s"
"%c%c%c%c"
"%-24s",

```

```

//
h_c_id_1,h_c_id_2,h_c_id_3,h_c_id_4,
h_c_id_4,h_c_id_3,h_c_id_2,h_c_id_1,
//
h_c_d_id_1,h_c_d_id_2,
h_c_d_id_2,h_c_d_id_1,
//
h_c_w_id_1,h_c_w_id_2,
h_c_w_id_2,h_c_w_id_1,
//
h_d_id_1,h_d_id_2,
h_d_id_2,h_d_id_1,
//
h_w_id_1,h_w_id_2,
h_w_id_2,h_w_id_1,
h_date,
//
h_amount_1,h_amount_2,h_amount_3,h_a
mount_4,
h_amount_4,h_amount_3,h_amount_2,h_a
mount_1,
h_data);
history_cp = history_cp +
HISTORY_SIZE ;
history_lpcnt = history_lpcnt + 1
;
if ( customer_lpcnt ==
CUSTOMER_COUNT )
{
fwrite(customer_ap
(size_t)CUSTOMER_SIZE ,
(size_t)CUSTOMER_COUNT,
fst5) ;
customer_cp = customer_cp ;
customer_lpcnt = 0 ;
}
if ( history_lpcnt == HISTORY_COUNT
)
{
fwrite(history_ap
(size_t)HISTORY_SIZE ,
(size_t)HISTORY_COUNT ,
fst6) ;
history_cp = history_ap ;
history_lpcnt = 0 ;
}
}
filecount++;
}
/* 1997-02-18 fprintf -> sprintf + fwrite */
if ( customer_lpcnt != 0 )
{
fwrite(customer_ap
(size_t)CUSTOMER_SIZE ,
(size_t)customer_lpcnt ,
fst5) ;

```

```

}
if ( history_lpcnt != 0 )
{
fwrite(history_ap
(size_t)HISTORY_SIZE ,
(size_t)history_lpcnt ,
fst6) ;
}
/* */
fclose(fst5);
fclose(fst6);
/* */
free(customer_ap) ;
/* */
return;
}
/*
* Function : orders()
* Description : orders, order_line, new_order
.
* Parameters : 1. base_ware,
* Parameters : 1. last_ware,
* Globals Ref: yyyyymmddhhmmss,
* Globals Out : nothing
* Returns : nothing
*/
void
orders(base_ware,last_ware)
int base_ware;
int last_ware;
{
/* */
double d_100 = 100;
int filecount = 1;
int outfilecount;
char filename1[64];
char filename2[64];
char filename3[64];
short d_id;
short w_id;
int o_id;
/* 1997-02-18 fprintf -> sprintf + fwrite */
int orders_lpcnt ; /*
*/
char *orders_ap ; /*
*/
char *orders_cp ; /*
*/
int orderline_lpcnt ; /*
*/
char *orderline_ap ; /*
*/
char *orderline_cp ; /*
*/
o_all_local = 1;
ol_quantity = 5;
outfilecount = ((base_ware-1)/10) + 1;
/*
*/
sprintf(filename1 , "%s\\Orders\\%d_%d" ,
D_BASE, base_ware, last_ware);

```



```

"%c%c""%c%c"
"%c%c""%c%c" ,
//
NNUL_V,NNUL_V,o_id_1,o_id_2,o_id_3,o_i
d_4,
NNUL_V,NNUL_V,o_id_4,o_id_3,o_id_2,o_i
d_1,
//
NNUL_V,NNUL_V,o_d_id_1,o_d_id_2,
NNUL_V,NNUL_V,o_d_id_2,o_d_id_1,
//
NNUL_V,NNUL_V,o_w_id_1,o_w_id_2,
NNUL_V,NNUL_V,o_w_id_2,o_w_id_1,
//
NNUL_V,NNUL_V,o_c_id_1,o_c_id_2,o_c_i
d_3,o_c_id_4,
NNUL_V,NNUL_V,o_c_id_4,o_c_id_3,o_c_i
d_2,o_c_id_1,
NNUL_V,NNUL_V,o_entry_d,
//
NNUL_V ,NUL_V
,NUL_V ,o_carrier_id_1,o_carrier_id_2,
NUL_V
,NUL_V ,o_carrier_id_2,o_carrier_id_1,
//
NNUL_V,NNUL_V,o_ol_cnt_1,o_ol_cnt_2,
NNUL_V,NNUL_V,o_ol_cnt_2,o_ol_cnt_1,
//
NNUL_V,NNUL_V,o_all_local_1,o_all_local_
2);
NNUL_V,NNUL_V,o_all_local_2,o_all_local_
1);
orders_cp = orders_cp +
ORDERS_SIZE ;
orders_lpcnt = orders_lpcnt + 1
;
/*
/* neworder
/* fprintf(fst8
,"%d,%d,%d\n",no_o_id,no_d_id,no_w_id);*/
/* Neworder record
: : 96/09/09 fukui */
no_o_id_1 =
no_o_id / T256;
no_o_id_2 =
(no_o_id-(no_o_id_1*T256))/D256;
no_o_id_3
=(no_o_id-(no_o_id_1*T256)-
(no_o_id_2*D256))/256;
no_o_id_4 =
no_o_id % T256;
no_d_id_1 =
no_d_id / 256;
no_d_id_2 =
no_d_id % 256;
no_w_id_1 =
no_w_id / 256;
no_w_id_2 =
no_w_id % 256;

```

```

/*
fprintf(fst8
,"%c%c%c%c%c%c%c%c",no_o_id_1,no_o_id_2,n
o_o_id_3,no_o_id_4,no_d_id_1,no_d_id_2,no_w_i
d_1,no_w_id_2);
*/
fprintf(fst8
,"%c%c%c%c%c%c%c%c",
no_o_id_4,no_o_id_3,no_o_id_2,no_o_id_1,no_d_
id_2,no_d_id_1,no_w_id_2,no_w_id_1);
} else {
/* ocarrier_id
*/
o_carrier_id =
random_number(1, 10);
/* order */
fprintf(fst7
,"%d,%d,%d,%d,\"%-14s\",%d,%d,%d\n",
o_id,o_d_id,o_w_id,o_c_id,o_entry_d,o_carr
ier_id,o_ol_cnt,o_all_local); */
/* order record :
: 96/09/09 fukui */
o_id_1 = o_id /
T256;
o_id_2 = (o_id-
(o_id_1*T256))/D256;
o_id_3 = (o_id-
(o_id_1*T256)-(o_id_2*D256))/256;
o_id_4 = o_id %
T256;
o_d_id_1 = o_d_id /
256;
o_d_id_2 = o_d_id
% 256;
o_w_id_1 = o_w_id
/ 256;
o_w_id_2 = o_w_id
% 256;
/* 97-02-18 o_c_id short->int */
o_c_id_1 = o_c_id /
T256;
o_c_id_2 = (o_c_id-
(o_c_id_1*T256)) / D256;
o_c_id_3 = (o_c_id-
(o_c_id_1*T256)-(o_c_id_2*D256))/256;
o_c_id_4 = o_c_id
% T256;
o_carrier_id_1 =
o_carrier_id / 256;
o_carrier_id_2 =
o_carrier_id % 256;
o_ol_cnt_1 =
o_ol_cnt / 256;
o_ol_cnt_2 =
o_ol_cnt % 256;
o_all_local_1 =
o_all_local / 256;
o_all_local_2 =
o_all_local % 256;
/*
fprintf(fst7
,"%c%c%c%c%c%c%c%c%c%c%c%c%c%c%c%c-
14s%c%c%c%c%c%c%c%c%c%c%c%c",

```

```

NNUL_V,NNUL_V,o_id_1,o_id_2,o_id_3,o_i
d_4,NNUL_V,NNUL_V,o_d_id_1,o_d_id_2,NNUL_
V,NNUL_V,o_w_id_1,o_w_id_2,NNUL_V,NNUL_V
,o_c_id_1,o_c_id_2,NNUL_V,NNUL_V,o_entry_d,
NNUL_V,NNUL_V,o_carrier_id_1,o_carrier_id_2,N
NUL_V,NNUL_V,o_ol_cnt_1,o_ol_cnt_2,NNUL_V,
NNUL_V,o_all_local_1,o_all_local_2);
*/
fprintf(fst7
,"%c%c%c%c%c%c%c%c%c%c%c%c%c%c%c%c-
14s%c%c%c%c%c%c%c%c%c%c%c%c",
NNUL_V,NNUL_V,o_id_4,o_id_3,o_id_2,o_i
d_1,NNUL_V,NNUL_V,o_d_id_2,o_d_id_1,
NNUL_V,NNUL_V,o_w_id_2,o_w_id_1,NNU
L_V,NNUL_V,o_c_id_2,o_c_id_1,
NNUL_V,NNUL_V,o_entry_d,NNUL_V,NNU
L_V,o_carrier_id_2,o_carrier_id_1,
NNUL_V,NNUL_V,o_ol_cnt_2,o_ol_cnt_1,N
NUL_V,NNUL_V,o_all_local_2,o_all_local_1);
*/
/* 97-02-18 o_c_id short->int */
/* 1997-02-18 fprintf -> printf +
fwrite */
sprintf(orders_cp ,
"%c%c""%c%c%c%c"
"%c%c""%c%c"
"%c%c""%c%c"
"%c%c""%c%c%c%c"
"%c%c""%-14s"
"%c%c""%c%c"
"%c%c""%c%c"
"%c%c""%c%c" ,
//
NNUL_V,NNUL_V,o_id_1,o_id_2,o_id_3,o_i
d_4,
NNUL_V,NNUL_V,o_id_4,o_id_3,o_id_2,o_i
d_1,
//
NNUL_V,NNUL_V,o_d_id_1,o_d_id_2,
NNUL_V,NNUL_V,o_d_id_2,o_d_id_1,
//
NNUL_V,NNUL_V,o_w_id_1,o_w_id_2,
NNUL_V,NNUL_V,o_w_id_2,o_w_id_1,
//
NNUL_V,NNUL_V,o_c_id_1,o_c_id_2,o_c_i
d_3,o_c_id_4,
NNUL_V,NNUL_V,o_c_id_4,o_c_id_3,o_c_i
d_2,o_c_id_1,
NNUL_V,NNUL_V,o_entry_d,
//
NNUL_V,NNUL_V,o_carrier_id_1,o_carrier_i
d_2,
NNUL_V,NNUL_V,o_carrier_id_2,o_carrier_i
d_1,

```







```

        (size_t)ORDERLINE_COUNT
        fst9) ;
        orderline_cp = orderline_ap ;
        orderline_lpcnt = 0 ;
    }
}
}
filecount++;
}

/* 1997-02-18 fprintf -> sprintf + fwrite */
if ( orders_lpcnt != 0 )
{
    fwrite(orders_ap ,
           (size_t)ORDERS_SIZE ,
           (size_t)orders_lpcnt ,
           fst7) ;
}
if ( orderline_lpcnt != 0 )
{
    fwrite(orderline_ap ,
           (size_t)ORDERLINE_SIZE ,
           (size_t)orderline_lpcnt ,
           fst9) ;
}

/* */
fclose(fst7);
fclose(fst8);
fclose(fst9);

/* */
free(orders_ap) ;

/* */
return;
}

/*
 * Function : make_address()
 * Description :
 * Parameters : 1. str1, 1( 21 )
 *              2. str2, 2( 21 )
 *              3. city, ( 21 )
 *              4. state, ( 3
 * )
 *              5. zip, ( 10
 * )
 * Grobals Ref: nothing
 * Grobals Out : nothing
 * Returns : nothing
 */

void
make_address(str1, str2, city, state, zip)
char *str1;
char *str2;
char *city;
char *state;
char *zip;
{
    /* street1 , 10-20 */
    make_alpha_string(10, 20, str1);

```

```

    /* street2 , 10-20 */
    make_alpha_string(10, 20, str2);

    /* city , 10-20 */
    make_alpha_string(10, 20, city);

    /* state , 2 */
    make_alpha_string(2, 2, state);

    /* zip , 9 */
    make_number_string(9, 9, zip);

    return;
}

/*
 * Function : lastname()
 * Description : lastname
 * Parameters : 1. num, 000-999
 *              2. name,
 * Grobals Ref: nothing
 * Grobals Out : nothing
 * Returns : nothing
 */

void
lastname(num, name)
int num;
char *name;
{
    /* syllable c_last 10 */
    static char *syllable[] = {
        "BAR", "OUGHT", "ABLE",
        "PRI", "PRES",
        "ESE", "ANTI", "CALLY",
        "ATION", "EING"
    };

    /* syllable[ 100 ] name */
    strcpy(name, syllable[num / 100]);

    /* syllable[ 10 ] name */
    strcat(name, syllable[(num / 10) % 10]);

    /* syllable[ 1 ] name */
    strcat(name, syllable[num % 10]);

    return;
}

/*
 * Function : make_alpha_string()
 * Description :
 * Parameters : 1. num1,
 *              2. num2,
 *              3. str,
 * Grobals Ref: nothing
 * Grobals Out : nothing
 * Returns : int,
 */

int
make_alpha_string(num1, num2, str)
int num1;
int num2;
char *str;
{

```

```

    int len;
    int i;
    short num;

    /* num1-num2 */
    if (num1 == num2) {
        len = num1;
    } else {
        len = random_number(num1, num2);
    }

    /* */
    for (i = 0; i < len; i++) {
#ifdef rand_str
        /* 0-61 */
        rnum = random_number(0, 61);

        /* 0-25 , 'a'==x61 (0:a,
        1:b, .. , 25:z) */
        if ((0 <= rnum) && (rnum <= 25)) {
            str[i] = 'a' + rnum;

            /* 26-51 , 'A'==x41
            (26:A, 27:B, .. , 51:Z) */
            } else if ((26 <= rnum) && (rnum <=
            51)) {
                str[i] = 'A' + rnum - 26;

                /* 52-61 , '0'==x30 (52:0,
                53:1, .. , 61:9) */
                } else if ((52 <= rnum) && (rnum <=
                61)) {
                    str[i] = '0' + rnum - 52;
                }
            #else
            /* 980818 K.Sugiyama */
            /* 980803 K.Sugiyama */
            // str[i] =
            (char)((rand()*32768+rand())%26+'a');
            /* 0-61 */
            rnum = rand()%61 ;

            /* 0-25 , 'a'==x61 (0:a,
            1:b, .. , 25:z) */
            if ((0 <= rnum) && (rnum <= 25)) {
                str[i] = 'a' + rnum;

                /* 26-51 , 'A'==x41
                (26:A, 27:B, .. , 51:Z) */
                } else if ((26 <= rnum) && (rnum <=
                51)) {
                    str[i] = 'A' + rnum - 26;

                    /* 52-61 , '0'==x30 (52:0,
                    53:1, .. , 61:9) */
                    } else if ((52 <= rnum) && (rnum <=
                    61)) {
                        str[i] = '0' + rnum - 52;
                    }
                #endif
            /* 980803 K.Sugiyama */
            /* 980818 K.Sugiyama */
            #endif
        }
        /* */
        if (num1 != num2) {*/
            str[len] = '\0';
        /* */
    }
}

```

```

    /*
    return(len);
}

/*
 * Function : make_number_string()
 * Description :
 * Parameters : 1. num1,
 *              2. num2,
 *              3. str,
 * Grobals Ref: nothing
 * Grobals Out : nothing
 * Returns    : int,
 */

int
make_number_string(num1, num2, str)
int num1;
int num2;
char *str;
{
    int len;
    int i;
    short rnum;

    /* num1-num2 */
    if (num1 == num2) {
        len = num1;
    } else {
        len = random_number(num1, num2);
    }

    /* */
    for (i = 0; i < len; i++) {

#ifdef rand_str
        /* 0-9 */
        rnum = random_number(0, 9);

        /* 0-9 str */
        str[i] = '0' + rnum;
#else
        str[i] = (char)((rand()*32768+rand())%10+'0');
#endif
    }
    /* */
    return(len);
}

/*
 * Function : random_number()
 * Description :
 * Parameters : 1. num1,
 *              2. num2,
 * Grobals Ref: nothing
 * Grobals Out : nothing
 * Returns    : int,
 */

#ifdef call_rand
/* 1997-02-18 mac */
int
random_number(num1, num2)

```

```

int num1;
int num2;
{
    int value;

    /* num1-num2 */
    // value = lrand48() % (num2 - num1 + 1) +
    num1;

    value = (rand()*32768+rand()) % (num2 - num1
+1) + num1;

    return(value);
}
#endif
/*
 * Function : set_seed()
 * Description :
 * Parameters : 1. seedval,
 * Grobals Ref: nothing
 * Grobals Out : nothing
 * Returns    : nothing
 */

void
set_seed(seedval)
int seedval;
{
    /* */
    // srand48(seedval);
    srand(seedval);

    return;
}

/*
 * Function : nurand()
 * Description :
 * Parameters : 1. a,
 *              2. x,
 *              3. y,
 * Grobals Ref: nothing
 * Grobals Out : nothing
 * Returns    : nothing
 */
/* 1997-02-18 TAB ID 221(c_last NURand C)
*/
int
nurand(a, x, y, c)
int a;
int x;
int y;
int c;
{
    int value;

    /* */
    value = (((random_number(0, a) |
random_number(x, y)) + c) %
(y - x + 1)) + x;

    /* */
    return(value);
}

/*
 * Function : init_permutation()

```

```

 * Description : o_c_id 1 CUST_PER_DIST
 *
 * Parameters : nothing
 * Grobals Ref: nothing
 * Grobals Out : 1. ocid, o_c_id
 *              2. counter,
 * Returns    : nothing
 */

void
init_permutation()
{
    short cnt;
    short replace;
    short work;

    /* ocid 1-CUST_PER_DIST */
    for (cnt = 0; cnt < CUST_PER_DIST;
cnt++){
        ocid[cnt] = cnt + 1;
    }

    /* ocid */
    for (cnt = 0; cnt < CUST_PER_DIST;
cnt++){
        replace = random_number(1,
CUST_PER_DIST);
        work = ocid[cnt];
        ocid[cnt] = ocid[replace - 1];
        ocid[replace - 1] = work;
    }

    /* */
    counter = 0;
}

/*
 * Function : get_permutation()
 * Description : o_c_id init_permutation
 *              1 CUST_PER_DIST
 *
 * Parameters : nothing
 * Grobals Ref: nothing
 * Grobals Out : nothing
 * Returns    : int, o_c_id
 */

int
get_permutation()
{
    /* */
    counter++;
    /* ocid counter-1 */
    return(ocid[counter - 1]);
}

File: Y DELIVERY 0811

--/*****STORED
PROCEDURE*****
***/
--/** Y DELIVERY COPYRIGHT FUJITSU
LIMITED 1997 **/

```

```

--/** :
**/
--/** :
**/
--/** : SymfoWARE RDB TPC-C Benchmark
**/
--/** : Delivery
**/
--/** : 1996/10/12
**/
--/** : 1997/03/13 Revision3.3 : Any
Error(Clause 2.3.6) **/
--
/*****
*****/

-- #RESULT_JOIN          VARCHAR(100)
-- +-----+
-- |sqlen  short  |
-- +-----+
-- |#RESULT_O_IDn  CHAR(9)  | |
-- +-----+
-- |              CHAR(1) "I" | |
-- +-----+
--
--
*****
*****
EXEC SQL
CREATE PROCEDURE
TPCC_SCHEMA.Y_DELIVERY(OUT #STATE
CHAR(5),
                INOUT #ERRPOS
INTEGER ,
                IN #W_ID
SMALLINT ,
                INOUT #C_ID
INTEGER ,
                IN #O_CARRIER_ID
SMALLINT ,
                IN #OL_DELIVERY_D
CHAR(14) ,
                INOUT #RESULT_JOIN
VARCHAR(100)
                )

DELIVERY:BEGIN
-- DECLARE

        DECLARE SQLSTATE          CHAR(5)
        DEFAULT '00000';
        DECLARE SAPSTOP           CHAR(1)
        DEFAULT '/' ;
        DECLARE @OL_TOTAL         INTEGER ;
        DECLARE @DMY_W_ID         SMALLINT;
        DECLARE @DMY_D_ID         SMALLINT;
        DECLARE @D_ID             SMALLINT;
        DECLARE @NO_O_ID          INTEGER ;

-- (3) ORDERS table cursor
DECLARE CDOS CURSOR FOR
        SELECT O_C_ID
        FROM TPCC_SCHEMA.ORDERS
        WHERE O_W_ID = #W_ID
        AND O_D_ID = @D_ID

```

```

        AND O_ID = @NO_O_ID
        FOR UPDATE;

-- LOOP
SET @D_ID = 1;
DID10:LOOP
        IF @D_ID > 10 THEN
                GOTO NORMAL_END ;
        END IF;
        -- (1) NEWORDER
NO_O_ID
        --
                WHENEVER
SQLERROR GOTO ERR_S_NO;
        SELECT MIN(NO_O_ID)
        INTO @NO_O_ID
        FROM TPCC_SCHEMA.NEWORDER
        WHERE NO_W_ID = #W_ID
        AND NO_D_ID = @D_ID;
        WHENEVER
SQLERROR CONTINUE;
        IF SQLSTATE <> '00000'
        OR @NO_O_ID IS NULL THEN
                SET @NO_O_ID = 99999999 ;
                GOTO NEXT_DID ;
        END IF;

        -- (2) NEW-ORDER @NO_O_ID
        --
                WHENEVER
SQLERROR GOTO ERR_D_NO;
        WHENEVER NOT
FOUND GOTO ERR_D_NO;
        DELETE FROM
TPCC_SCHEMA.NEWORDER
        WHERE NO_W_ID = #W_ID
        AND NO_D_ID = @D_ID
        AND NO_O_ID = @NO_O_ID ;

        -- (5) ORDER-LINE OL_AMOUNT
        WHENEVER
SQLERROR GOTO ERR_S_OL;
        WHENEVER NOT
FOUND GOTO ERR_S_OL;
        SELECT SUM(OL_AMOUNT)
        INTO @OL_TOTAL
        FROM TPCC_SCHEMA.ORDERLINE
        WHERE OL_W_ID = #W_ID
        AND OL_D_ID = @D_ID
        AND OL_O_ID = @NO_O_ID
        AND OL_NUMBER
        IN(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15);

--$ -- if OL index exist
--$ WHERE OL_W_ID = #W_ID
--$ AND OL_D_ID = @D_ID
--$ AND OL_O_ID = @NO_O_ID;

-- ORDER-LINE
        WHENEVER
SQLERROR GOTO ERR_U_OL;
        WHENEVER NOT
FOUND GOTO ERR_U_OL;
        UPDATE TPCC_SCHEMA.ORDERLINE
        SET OL_DELIVERY_D =
#OL_DELIVERY_D
        WHERE OL_W_ID = #W_ID

```

```

        AND OL_D_ID = @D_ID
        AND OL_O_ID = @NO_O_ID
        AND OL_NUMBER
        IN(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15);

--$ -- if OL index exist
--$ WHERE OL_W_ID = #W_ID
--$ AND OL_D_ID = @D_ID
--$ AND OL_O_ID = @NO_O_ID;

        -- (3) ORDER @NO_O_ID
        --
                WHENEVER
SQLERROR GOTO ERR_S_OR;
        WHENEVER NOT
FOUND GOTO ERR_S_OR;
        OPEN CDOS;
        FETCH CDOS INTO #C_ID;
        WHENEVER
SQLERROR CONTINUE;
        WHENEVER NOT
FOUND CONTINUE;

        -- (4) ORDER
        WHENEVER
SQLERROR GOTO ERR_U_OR;
        UPDATE TPCC_SCHEMA.ORDERS
        SET O_CARRIER_ID =
#O_CARRIER_ID
        WHERE CURRENT OF CDOS;
        WHENEVER
SQLERROR CONTINUE;
        CLOSE CDOS;

        -- (6) Customer
        WHENEVER
SQLERROR GOTO ERR_U_CM;
        WHENEVER NOT
FOUND GOTO ERR_U_CM;
        UPDATE TPCC_SCHEMA.CUSTOMER
        -- SET C_BALANCE = C_BALANCE
        + @OL_TOTAL, - 98.08.10
        SET C_BALANCE =
CAST(@OL_TOTAL AS DECIMAL(10,0)) /100.0 +
C_BALANCE,
        C_DELIVERY_CNT =
C_DELIVERY_CNT + 1
        WHERE C_W_ID = #W_ID
        AND C_D_ID = @D_ID
        AND C_ID = #C_ID;
        WHENEVER
SQLERROR CONTINUE;
        WHENEVER NOT
FOUND CONTINUE;
        NEXT_DID:

        SET #RESULT_JOIN = #RESULT_JOIN
        || CAST(@NO_O_ID AS
CHAR(9)) || SAPSTOP ;

        SET @D_ID = @D_ID + 1;

        COMMIT WORK ;

        END LOOP DID10;
-- LOOP END

NORMAL_END:
TPC Benchmark C Full Disclosure

```

```

SET #STATE = '00000' ;
LEAVE DELIVERY ;

--SQLERR:NOT_OUND:
ERR_S_OR:
SET #ERRPOS = 207 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;
LEAVE DELIVERY ;
ERR_S_OL:
SET #ERRPOS = 208 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;
LEAVE DELIVERY ;
ERR_S_NO:
SET #ERRPOS = 209 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;
LEAVE DELIVERY ;
ERR_U_CM:
SET #ERRPOS = 305 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;
LEAVE DELIVERY ;
ERR_U_OR:
SET #ERRPOS = 307 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;
LEAVE DELIVERY ;
ERR_U_OL:
SET #ERRPOS = 308 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;
LEAVE DELIVERY ;
ERR_D_NO:
SET #ERRPOS = 409 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;

END DELIVERY
END-EXEC;

```

**File: Y\_NORDER**

```

-- /*****STORED
PROCEDURE*****
**/
-- /** Y_NORDER COPYRIGHT FUJITSU
LIMITED 1997 **/
-- /** :
**/
-- /** :
**/
-- /** : SymfoWARE RDB TPC-C Benchmark
**/
-- /** : NewOrder
**/
-- /** : 1996/10/12
**/
-- /** 1997/03/13 Revision3.3 : Any
Error(Clause 2.3.6) **/
--
/*****
*****/

```

```

--
*****
-- #S_JOIN          VARCHAR(1215)
-- +-----+
-- |sqlen  short    |
-- +-sqlver-----+ ---
-- | S_QUANTITYn   CHAR(6)  | |
-- +-----+ |
-- | S_DISTn      CHAR(24)  | |
-- +-----+ |
-- | S_DATAAn     CHAR(50)  | |
-- +-----+ |
-- |              CHAR(1) "/" | |
-- +-----+ ---
-- |              |
-- +-----+
--
--
-- #I_JOIN          VARCHAR(1215)
-- +-----+
-- |sqlen  short    |
-- +-sqlver-----+ ---
-- | I_PRICEHn    CHAR(6)   | |
-- +-----+ |
-- | I_NAMEn     CHAR(24)   | |
-- +-----+ |
-- | I_DATAAn    CHAR(50)   | |
-- +-----+ |
-- |              CHAR(1) "/" | |
-- +-----+ ---
-- |              |
-- +-----+
--
--
*****
EXEC SQL
CREATE PROCEDURE
TPCC_SCHEMA.Y_NORDER(OUT #STATE
CHAR(5),
INOUT #ERRPOS
INTEGER ,
IN #W_ID
SMALLINT,
IN #D_ID
SMALLINT,
IN #C_ID
INTEGER ,
INOUT #O_ALL_LOCAL
SMALLINT,
OUT #W_TAX
SMALLINT,
OUT #D_TAX
SMALLINT,
INOUT #O_ID
INTEGER ,
IN #O_ENTRY_D
CHAR(14),
OUT #C_DISCOUNT
SMALLINT,
OUT #C_LAST
CHAR(16),

```

```

OUT #C_CREDIT
CHAR(2),
INOUT #ITEM_NF_CTR
SMALLINT,
IN #H_CNT
SMALLINT,
IN #R_CNT
SMALLINT,
IN #OL_I_ID1
INTEGER,
IN #OL_I_ID2
INTEGER,
IN #OL_I_ID3
INTEGER,
IN #OL_I_ID4
INTEGER,
IN #OL_I_ID5
INTEGER,
IN #OL_I_ID6
INTEGER,
IN #OL_I_ID7
INTEGER,
IN #OL_I_ID8
INTEGER,
IN #OL_I_ID9
INTEGER,
IN #OL_I_ID10
INTEGER,
IN #OL_I_ID11
INTEGER,
IN #OL_I_ID12
INTEGER,
IN #OL_I_ID13
INTEGER,
IN #OL_I_ID14
INTEGER,
IN #OL_I_ID15
INTEGER,
IN #OL_I_ID_JOIN
VARCHAR(105) ,
IN
#OL_QUANTITY_JOIN VARCHAR(60) ,
INOUT #S_JOIN
VARCHAR(1215),
INOUT #I_JOIN
VARCHAR(1215),
IN
#OL_SUPPLY_W_JOIN VARCHAR(60)
)
NEWORDER:BEGIN
-- DECLARE
DECLARE SQLSTATE CHAR(5)
DEFAULT '00000';
DECLARE SAPSTOP CHAR(1)
DEFAULT '/';
DECLARE @OL_I_ID INTEGER;
DECLARE @OL_SUPPLY_W_ID
SMALLINT;
DECLARE @OL_QUANTITY SMALLINT;
DECLARE @S_QUANTITY SMALLINT;
DECLARE @I_PRICEH SMALLINT;
DECLARE @I_NAMEH CHAR(24);
DECLARE @I_DATAH CHAR(50);
DECLARE @S_DATA CHAR(50);
DECLARE @S_YTD INTEGER;
DECLARE @S_ORDER_CNT SMALLINT;
DECLARE @S_REMOTE_CNT
SMALLINT;
TPC Benchmark C Full Disclosure

```

```

DECLARE @D_NEXT_O_ID    INTEGER;
DECLARE @OL_NUMBER     SMALLINT;
DECLARE @STOCK_NUM     SMALLINT;
DECLARE @MATCH_TBL_CNT SMALLINT;
SMALLINT;
DECLARE @S_DIST        CHAR(24);
DECLARE @S_DIST_01    CHAR(24);
DECLARE @S_DIST_02    CHAR(24);
DECLARE @S_DIST_03    CHAR(24);
DECLARE @S_DIST_04    CHAR(24);
DECLARE @S_DIST_05    CHAR(24);
DECLARE @S_DIST_06    CHAR(24);
DECLARE @S_DIST_07    CHAR(24);
DECLARE @S_DIST_08    CHAR(24);
DECLARE @S_DIST_09    CHAR(24);
DECLARE @S_DIST_10    CHAR(24);
DECLARE @S_DIST_JOIN  CHAR(240) ;
DECLARE @C_OL_I_ID    CHAR(7) ;
DECLARE @C_I_PRICEH   CHAR(6) ;
DECLARE @C_S_QUANTITY CHAR(6) ;
;
;
DECLARE @OL_AMOUNT     INTEGER
;
;
DECLARE @O_OL_CNT      SMALLINT ;
DECLARE @DIST_POS      SMALLINT ;

-- (7) ITEM table select
DECLARE ITEM_H CURSOR FOR
  SELECT I_PRICE,
         I_NAME,
         I_DATA,
         I_ID
  FROM TPCC_SCHEMA.ITEM
  WHERE TPCC_SCHEMA.ITEM.I_ID
        IN( #OL_I_ID1 ,
            #OL_I_ID2 ,
            #OL_I_ID3 ,
            #OL_I_ID4 ,
            #OL_I_ID5 ,
            #OL_I_ID6 ,
            #OL_I_ID7 ,
            #OL_I_ID8 ,
            #OL_I_ID9 ,
            #OL_I_ID10 ,
            #OL_I_ID11 ,
            #OL_I_ID12 ,
            #OL_I_ID13 ,
            #OL_I_ID14 ,
            #OL_I_ID15 );

-- (8) STOCK table select
DECLARE CNSS_HOME CURSOR FOR
  SELECT S_I_ID,S_QUANTITY,
         S_DIST_01,S_DIST_02,S_DIST_03,S_DIST_04,S_DIST_05,
         S_DIST_06,S_DIST_07,S_DIST_08,S_DIST_09,S_DIST_10,
         S_YTD,S_ORDER_CNT,S_REMOTE_CNT,S_DATA
  FROM TPCC_SCHEMA.STOCK
  WHERE S_W_ID = #W_ID
        AND S_I_ID IN( #OL_I_ID1 ,
                      #OL_I_ID2 ,
                      #OL_I_ID3 ,
                      #OL_I_ID4 ,

```

```

#OL_I_ID5 ,
#OL_I_ID6 ,
#OL_I_ID7 ,
#OL_I_ID8 ,
#OL_I_ID9 ,
#OL_I_ID10 ,
#OL_I_ID11 ,
#OL_I_ID12 ,
#OL_I_ID13 ,
#OL_I_ID14 ,
#OL_I_ID15 )
ORDER BY S_I_ID
FOR UPDATE ;

SET @DIST_POS = 1+(#D_ID-1)*24;
SET @O_OL_CNT = #H_CNT + #R_CNT ;
SET #O_ALL_LOCAL = 1 ;

-- (4) CUSTOMER table select
WHENEVER
SQLERROR GOTO ERR_S_CM;
WHENEVER NOT
FOUND GOTO ERR_S_CM;
SELECT C_LAST,C_CREDIT,C_DISCOUNT
  INTO #C_LAST,
      #C_CREDIT,
      #C_DISCOUNT
  FROM TPCC_SCHEMA.CUSTOMER
  WHERE C_W_ID = #W_ID
        AND C_D_ID = #D_ID
        AND C_ID = #C_ID;
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;
IF #H_CNT = 0 THEN
  GOTO REMORT_PROC ;
END IF;

HOME_PROC:
-- Home Warehouse PROCESS START
-- ( Warehouse id )
-- (7) ITEM table select
WHENEVER
SQLERROR GOTO ERR_S_IT;
WHENEVER NOT
FOUND GOTO ERR_S_IT;
OPEN ITEM_H ;
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;
-- LOOP
SET @MATCH_TBL_CNT = 0 ;
INCNT:LOOP
WHENEVER
SQLERROR GOTO ERR_S_IT;
WHENEVER NOT
FOUND GOTO L1;
FETCH ITEM_H
  INTO @I_PRICEH,
      @I_NAMEH,
      @I_DATAH,
      @OL_I_ID;
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;

```

```

SET @MATCH_TBL_CNT =
@MATCH_TBL_CNT + 1;

SET @C_I_PRICEH =
CAST(@I_PRICEH AS CHAR(6)) ;
SET #I_JOIN = #I_JOIN ||
@C_I_PRICEH ||
@I_NAMEH ||
@I_DATAH || SAPSTOP ;

END LOOP INCNT;
-- LOOP END

L1: IF @MATCH_TBL_CNT < #H_CNT THEN
  SET #ITEM_NF_CTR =
  @MATCH_TBL_CNT ;
END IF;

CLOSE ITEM_H ;

-- (8) STOCK table select
-- (9) STOCK table update
WHENEVER
SQLERROR GOTO ERR_S_ST;
WHENEVER NOT
FOUND GOTO ERR_S_ST;
OPEN CNSS_HOME ;
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;
-- LOOP
SET @STOCK_NUM = 0;
OLCNT:LOOP
IF @STOCK_NUM = #H_CNT THEN
  GOTO L3 ;
END IF;

-- (8) STOCK table select
WHENEVER
SQLERROR GOTO ERR_S_ST;
WHENEVER NOT
FOUND GOTO L3 ;
FETCH CNSS_HOME
  INTO @OL_I_ID,@S_QUANTITY,
      @S_DIST_01,@S_DIST_02,@S_DIST_03,@S_DIST_04,
      @S_DIST_05,
      @S_DIST_06,@S_DIST_07,@S_DIST_08,@S_DIST_09,
      @S_DIST_10,
      @S_YTD,@S_ORDER_CNT,@S_REMOTE_CNT,
      @S_DATA;
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;
SET @S_DIST_JOIN = @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
;
    SET @S_DIST =
SUBSTRING(@S_DIST_JOIN FROM
@DIST_POS FOR 24) ;

    SET @OL_QUANTITY =
CAST(SUBSTRING(#OL_QUANTITY_JOIN
FROM 1+(@STOCK_NUM *
4) FOR 4)
AS SMALLINT) ;

    SET @S_QUANTITY = (@S_QUANTITY -
@OL_QUANTITY);
    IF @S_QUANTITY < 10 THEN
        SET @S_QUANTITY =
@S_QUANTITY + 91 ;
    END IF;

    SET @S_YTD = @S_YTD +
@OL_QUANTITY;
    SET @S_ORDER_CNT =
@S_ORDER_CNT + 1;

-- (9) STOCK table update
WHENEVER
SQLERROR GOTO ERR_U_ST;
UPDATE TPCC_SCHEMA.STOCK
SET S_QUANTITY =
@S_QUANTITY,
S_YTD = @S_YTD,
S_ORDER_CNT =
@S_ORDER_CNT,
S_REMOTE_CNT =
@S_REMOTE_CNT
WHERE CURRENT OF CNSS_HOME
;
WHENEVER
SQLERROR CONTINUE;

    SET @C_S_QUANTITY =
CAST(@S_QUANTITY AS CHAR(6)) ;
    SET #S_JOIN = #S_JOIN ||
@C_S_QUANTITY ||
@S_DIST || @S_DATA
|| SAPSTOP ;

    SET @STOCK_NUM = @STOCK_NUM +
1;

    END LOOP OLCNT;
-- LOOP END

L3: IF @STOCK_NUM <> #H_CNT
AND @STOCK_NUM <> #ITEM_NF_CTR
THEN
    GOTO ERR_S_ST_NF;
END IF;
CLOSE CNSS_HOME ;

-- Home Warehouse PROCESS END

    IF #R_CNT = 0 THEN
        GOTO DISTRICT_PROC ;
    END IF;

REMORT_PROC:
-- Remote Warehouse process start

```

```

-- (
Warehouse)
-- LOOP
    SET @MATCH_TBL_CNT = 0 ;
    SET @STOCK_NUM = 0 ;

    OLCNT_R: LOOP
R1: IF @STOCK_NUM = #R_CNT THEN
    GOTO R3 ;
    END IF;

    SET @OL_I_ID =
CAST(SUBSTRING(#OL_I_ID_JOIN
FROM
1+(@STOCK_NUM * 7) FOR 7)
AS INTEGER)
;

    SET @OL_SUPPLY_W_ID =
CAST(SUBSTRING(#OL_SUPPLY_W_JOIN
FROM
1+(@STOCK_NUM * 4) FOR 4)
AS SMALLINT)
;

-- (7) ITEM table select
WHENEVER
SQLERROR GOTO ERR_S_IT ;
WHENEVER NOT
FOUND GOTO R2 ;
SELECT I_PRICE, I_NAME, I_DATA
INTO @I_PRICEH,
@I_NAMEH ,
@I_DATAH
FROM TPCC_SCHEMA.ITEM
WHERE I_ID = @OL_I_ID ;
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;

    SET @MATCH_TBL_CNT =
@MATCH_TBL_CNT + 1 ;

    SET @C_I_PRICEH =
CAST(@I_PRICEH AS CHAR(6)) ;
    SET #I_JOIN = #I_JOIN ||
@C_I_PRICEH ||
@I_NAMEH || @I_DATAH
|| SAPSTOP ;

-- (8) STOCK table select
WHENEVER
SQLERROR GOTO ERR_S_ST;
WHENEVER NOT
FOUND GOTO ERR_S_ST;
SELECT S_QUANTITY,
S_DIST_01, S_DIST_02, S_DIST_03, S_DIST_04, S_DIST_05,
S_DIST_06, S_DIST_07, S_DIST_08, S_DIST_09, S_DIST_10,
S_YTD, S_ORDER_CNT, S_REMOTE_CNT, S_DATA
INTO @S_QUANTITY,
@S_DIST_01, @S_DIST_02, @S_DIST_03, @S_DIST_04, @S_DIST_05,
@S_DIST_06, @S_DIST_07, @S_DIST_08, @S_DIST_09, @S_DIST_10,
@S_YTD, @S_ORDER_CNT, @S_REMOTE_CNT, @S_DATA

```

```

@S_DIST_06, @S_DIST_07, @S_DIST_08, @S_DIST_09, @S_DIST_10,
@S_YTD, @S_ORDER_CNT, @S_REMOTE_CNT, @S_DATA
FROM TPCC_SCHEMA.STOCK
WHERE S_W_ID = @OL_SUPPLY_W_ID
AND S_I_ID = @OL_I_ID ;
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;

    SET @S_DIST_JOIN = @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
;

    SET @S_DIST =
SUBSTRING(@S_DIST_JOIN FROM
@DIST_POS FOR 24) ;

    SET @OL_QUANTITY =
CAST(SUBSTRING(#OL_QUANTITY_JOIN
FROM
1+((@STOCK_NUM+#H_CNT) * 4) FOR 4)
AS SMALLINT)
;

    SET @S_QUANTITY = (@S_QUANTITY -
@OL_QUANTITY);
    IF @S_QUANTITY < 10 THEN
        SET @S_QUANTITY =
@S_QUANTITY + 91 ;
    END IF;

    SET @S_YTD = @S_YTD +
@OL_QUANTITY;
    SET @S_ORDER_CNT =
@S_ORDER_CNT + 1;
    IF @OL_SUPPLY_W_ID <> #W_ID
THEN
        SET @S_REMOTE_CNT =
@S_REMOTE_CNT + 1;
        SET #O_ALL_LOCAL = 0;
    END IF;

-- (9) STOCK table update
WHENEVER
SQLERROR GOTO ERR_U_ST;
UPDATE TPCC_SCHEMA.STOCK
SET S_QUANTITY = @S_QUANTITY,
S_YTD = @S_YTD,
S_ORDER_CNT =
@S_ORDER_CNT,
S_REMOTE_CNT =
@S_REMOTE_CNT
WHERE S_W_ID = @OL_SUPPLY_W_ID
AND S_I_ID = @OL_I_ID ;
WHENEVER
SQLERROR CONTINUE;

```

```

SET @C_S_QUANTITY =
CAST(@S_QUANTITY AS CHAR(6)) ;
SET #S_JOIN = #S_JOIN ||
@C_S_QUANTITY ||
@S_DIST || @S_DATA
|| SAPSTOP ;

R2: SET @STOCK_NUM = @STOCK_NUM +
1 ;

END LOOP OLCNT_R;

-- LOOP END
R3:
IF @MATCH_TBL_CNT < #R_CNT THEN
IF #ITEM_NF_CTR = -1 THEN
SET #ITEM_NF_CTR =
@MATCH_TBL_CNT ;
ELSE
SET #ITEM_NF_CTR = #ITEM_NF_CTR
+ @MATCH_TBL_CNT ;
END IF;
END IF;

-- Remote Warehouse process end

DISTRICT_PROC:
-- (3) DISTRICT table update
WHENEVER
SQLERROR GOTO ERR_U_DI;
WHENEVER NOT
FOUND GOTO ERR_U_DI;
UPDATE TPCC_SCHEMA.DISTRICT
SET D_NEXT_O_ID =
D_NEXT_O_ID+1
WHERE D_W_ID = #W_ID
AND D_ID = #D_ID;
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;
-- (2) DISTRICT table select

SELECT D_NEXT_O_ID-1,D_TAX
INTO #O_ID,#D_TAX
FROM TPCC_SCHEMA.DISTRICT
WHERE D_W_ID = #W_ID
AND D_ID = #D_ID;

-- (6) ORDERS table insert
WHENEVER
SQLERROR GOTO ERR_I_OR;
WHENEVER NOT
FOUND GOTO ERR_I_OR;
INSERT INTO TPCC_SCHEMA.ORDERS
VALUES (#O_ID,
#D_ID,
#W_ID,
#C_ID,
#O_ENTRY_D,
NULL,
@O_OL_CNT,
#O_ALL_LOCAL);
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;

```

```

-- (5) NEWORDER table insert
WHENEVER
SQLERROR GOTO ERR_I_NO;
WHENEVER NOT
FOUND GOTO ERR_I_NO;
INSERT INTO TPCC_SCHEMA.NEWORDER
VALUES (#O_ID,
#D_ID,
#W_ID);
WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;
-- (1) WAREHOUSE table update
WHENEVER
SQLERROR GOTO ERR_S_WH;
SELECT W_TAX
INTO #W_TAX
FROM TPCC_SCHEMA.WAREHOUSE
WHERE W_ID=#W_ID;
WHENEVER
SQLERROR CONTINUE;

NORMAL_END:
SET #STATE = '00000';
LEAVE NEWORDER;

--SQLERR:NOT_FOUND:
ERR_I_OR:
SET #ERRPOS = 107 ;
SET #STATE = SQLSTATE;
LEAVE NEWORDER ;
ERR_I_OL:
SET #ERRPOS = 108 ;
SET #STATE = SQLSTATE;
LEAVE NEWORDER ;
ERR_I_NO:
SET #ERRPOS = 109 ;
SET #STATE = SQLSTATE;
LEAVE NEWORDER ;
ERR_S_IT:
SET #ERRPOS = 201 ;
SET #STATE = SQLSTATE;
LEAVE NEWORDER ;
ERR_S_WH:
SET #ERRPOS = 202 ;
SET #STATE = SQLSTATE;
LEAVE NEWORDER ;
ERR_S_DI:
SET #ERRPOS = 203 ;
SET #STATE = SQLSTATE;
LEAVE NEWORDER ;
ERR_S_ST:
SET #ERRPOS = 204 ;
SET #STATE = SQLSTATE;
LEAVE NEWORDER ;
ERR_S_ST_NF:
SET #ERRPOS = 204 ;
SET #STATE = '02000';
LEAVE NEWORDER ;
ERR_S_CM:
SET #ERRPOS = 205 ;
SET #STATE = SQLSTATE;
LEAVE NEWORDER ;
ERR_U_DI:
SET #ERRPOS = 303 ;
SET #STATE = SQLSTATE;
LEAVE NEWORDER ;

```

```

ERR_U_ST:
SET #ERRPOS = 304 ;
SET #STATE = SQLSTATE;

END NEWORDER
END-EXEC;

```

File: Y\_ODERSTAT\_pgsr

```

-- /*****STORED
PROCEDURE*****/
-- /** Y_ODERSTAT COPYRIGHT FUJITSU
LIMITED 1997 **/
-- /** :
**/
-- /** :
**/
-- /** : SymfoWARE RDB TPC-C Benchmark
**/
-- /** : Order-Status
**/
-- /** : 1996/10/12
**/
-- /** 1997/03/13 Revision3.3 : Any
Error(Clause 2.3.6) **/
--
/*****
*****/

-- #OL_JOIN VARCHAR(570)
-- +-----+
-- |sqlen short |
-- +-sqlver-----+
-- |#OL_I_IDn CHAR(7) | |
-- +-----+ |
-- |#OL_AMOUNTn CHAR(8) | |
-- +-----+ |
-- |#OL_SUPPLY_W_IDn CHAR(4) | |
-- +-----+ |
-- |#OL_QUANTITYn CHAR(4) | |
-- +-----+ |
-- |#OL_DELIVERYn CHAR(14) | |
-- +-----+ |
-- | CHAR(1) "I" | |
-- +-----+
--
--
--
--
*****
*****

EXEC SQL
CREATE PROCEDURE
TPCC_SCHEMA.Y_ODERSTAT(OUT #STATE
CHAR(5),
INOUT #ERRPOS
INTEGER,
IN #W_ID
SMALLINT,
IN #D_ID
SMALLINT,
INOUT #C_ID
INTEGER,

```



```

        OUT #C_FIRST
CHAR(16),
        OUT #C_MIDDLE
CHAR(2) ,
        INOUT #C_LAST
CHAR(16),
        OUT #C_BALANCE
DOUBLE PRECISION,
        INOUT #O_ID
INTEGER ,
        OUT #O_ENTRY_D
CHAR(14),
        OUT #O_CARRIER_ID
SMALLINT,
        INOUT #O_OL_CNT
SMALLINT,
        INOUT #OL_JOIN
VARCHAR(570)
    )
ORDER_STATUS:BEGIN
-- DECLARE
    DECLARE SQLSTATE      CHAR(5)
DEFAULT '00000';
    DECLARE SAPSTOP      CHAR(1)
DEFAULT '/';
    DECLARE DELIVERY_D   CHAR(14)
DEFAULT '77777777';
    DECLARE @OL_I_ID     INTEGER;
    DECLARE @OL_SUPPLY_W_ID
SMALLINT;
    DECLARE @OL_QUANTITY SMALLINT;
    DECLARE @OL_AMOUNT  INTEGER;
    DECLARE @OL_DELIVERY_D CHAR(14);
    DECLARE @OL_NUMBER  INTEGER;
    DECLARE @NAMECOUNT INTEGER;
    DECLARE @J          INTEGER;
    DECLARE @I          INTEGER;
    DECLARE @WORK      VARCHAR(100);

-- DEFINE CUSTOMER table cursor
    DECLARE COCS CURSOR FOR
        SELECT C_ID,
            C_FIRST,
            C_MIDDLE,
            C_LAST,
            C_BALANCE
        FROM
            TPCC_SCHEMA.CUSTOMER
        WHERE C_LAST = #C_LAST
            AND C_W_ID = #W_ID
            AND C_D_ID = #D_ID
        ORDER BY C_FIRST;

-- DEFINE ORDERLINE table cursor
    DECLARE COOLS CURSOR FOR
        SELECT OL_I_ID,
            OL_SUPPLY_W_ID,
            OL_DELIVERY_D,
            OL_QUANTITY,
            OL_AMOUNT
        FROM
            TPCC_SCHEMA.ORDERLINE
        WHERE OL_W_ID = #W_ID
            AND OL_D_ID = #D_ID
            AND OL_O_ID = #O_ID
            AND OL_NUMBER
IN(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15);
--$

```

```

--$      WHERE OL_W_ID = #W_ID
--$      AND OL_D_ID = #D_ID
--$      AND OL_O_ID = #O_ID;

    IF #C_ID = 0 THEN
        -- Customer Last Name Payment
        Transaction
        -- (1) CUSTOMER table select
            WHENEVER
SQLERROR GOTO ERR_S_CM;
            WHENEVER NOT
FOUND GOTO ERR_S_CM;
        SELECT COUNT(*)
        INTO @NAMECOUNT
        FROM TPCC_SCHEMA.CUSTOMER
        WHERE C_LAST = #C_LAST
            AND C_W_ID = #W_ID
            AND C_D_ID = #D_ID;
            WHENEVER
SQLERROR CONTINUE;
            WHENEVER NOT
FOUND CONTINUE;
        IF @NAMECOUNT > 0 THEN
            WHENEVER
SQLERROR GOTO ERR_S_CM;
            WHENEVER NOT
FOUND GOTO ERR_S_CM;
            OPEN COCS;
            WHENEVER
SQLERROR CONTINUE;
            WHENEVER NOT
FOUND CONTINUE;
            SET @J = @NAMECOUNT + 1;
            SET @J = @J / 2;
            SET @I = 0 ;
            NAMECNT:LOOP
            IF @I = @J THEN
                LEAVE NAMECNT ;
            END IF;
            SET @I = @I + 1 ;
            WHENEVER
SQLERROR GOTO ERR_S_CM;
            WHENEVER NOT
FOUND GOTO ERR_S_CM;
            FETCH COCS
            INTO #C_ID,
                #C_FIRST,
                #C_MIDDLE,
                #C_LAST,
                #C_BALANCE;
            WHENEVER
SQLERROR CONTINUE;
            WHENEVER NOT
FOUND CONTINUE;
            END LOOP NAMECNT;
            CLOSE COCS;
        ELSE
            GOTO ERR_S_CM_NAME ;
        END IF;

    ELSE
        -- Customer id Payment Transaction
        -- (2) CUSTOMER table select
            WHENEVER
SQLERROR GOTO ERR_S_CM;
            WHENEVER NOT
FOUND GOTO ERR_S_CM;

```

```

        SELECT
        C_FIRST,C_MIDDLE,C_LAST,C_BALANCE
        INTO #C_FIRST,
            #C_MIDDLE,
            #C_LAST,
            #C_BALANCE
        FROM TPCC_SCHEMA.CUSTOMER
        WHERE C_ID = #C_ID
            AND C_D_ID = #D_ID
            AND C_W_ID = #W_ID;
            WHENEVER
SQLERROR CONTINUE;
            WHENEVER NOT
FOUND CONTINUE;
        END IF;

-- (3) ORDER table select get max o_id record
            WHENEVER
SQLERROR GOTO ERR_S_OR;
            WHENEVER NOT
FOUND GOTO ERR_S_OR;
        SELECT O_ID,
            O_ENTRY_D,
            O_CARRIER_ID,
            O_OL_CNT
        INTO #O_ID,
            #O_ENTRY_D,
            #O_CARRIER_ID,
            #O_OL_CNT
        FROM TPCC_SCHEMA.ORDERS
        WHERE O_ID = (SELECT MAX(O_ID)
        FROM
            TPCC_SCHEMA.ORDERS
        WHERE O_W_ID =
#W_ID
            AND O_D_ID = #D_ID
            AND O_C_ID = #C_ID)
            AND O_W_ID = #W_ID
            AND O_D_ID = #D_ID
            AND O_C_ID = #C_ID;
            WHENEVER
SQLERROR GOTO ERR_S_OL;
            WHENEVER NOT
FOUND GOTO ERR_S_OL;
            OPEN COOLS ;
            WHENEVER
SQLERROR CONTINUE;
            WHENEVER NOT
FOUND CONTINUE;
-- LOOP
        SET @OL_NUMBER = 1;
        OLCNT:LOOP
        IF #O_OL_CNT < @OL_NUMBER THEN
            LEAVE OLCNT ;
        END IF;

-- (4) ORDER-LINE table select
            WHENEVER
SQLERROR GOTO ERR_S_OL;
            WHENEVER NOT
FOUND GOTO ERR_S_OL;
            FETCH COOLS
            INTO @OL_I_ID,
                @OL_SUPPLY_W_ID,
                @OL_DELIVERY_D,
                @OL_QUANTITY,
                @OL_AMOUNT;

```

```

WHENEVER
SQLERROR CONTINUE;
WHENEVER NOT
FOUND CONTINUE;
IF @OL_DELIVERY_D IS NULL THEN
SET @WORK = CAST(@OL_I_ID
AS CHAR(7))
|| CAST(@OL_AMOUNT AS
CHAR(8))
|| CAST(@OL_SUPPLY_W_ID
AS CHAR(4))
|| CAST(@OL_QUANTITY AS
CHAR(4))
|| DELIVERY_D ||
SAPSTOP ;
ELSE
SET @WORK = CAST(@OL_I_ID
AS CHAR(7))
|| CAST(@OL_AMOUNT AS
CHAR(8))
|| CAST(@OL_SUPPLY_W_ID
AS CHAR(4))
|| CAST(@OL_QUANTITY AS
CHAR(4))
|| @OL_DELIVERY_D ||
SAPSTOP ;
END IF ;

SET #OL_JOIN = #OL_JOIN || @WORK;

SET @OL_NUMBER = @OL_NUMBER +
1;

END LOOP OLCNT;
-- LOOP END

CLOSE COOLS ;

COMMIT WORK ;
SET #STATE = '00000' ;
LEAVE ORDER_STATUS ;

--SQLERR:NOT_FOUND:
ERR_S_CM_NAME:
SET #ERRPOS = 205 ;
SET #STATE = '02000' ;
ROLLBACK WORK ;
LEAVE ORDER_STATUS ;
ERR_S_CM:
SET #ERRPOS = 205 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;
LEAVE ORDER_STATUS ;
ERR_S_OR:
SET #ERRPOS = 207 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;
LEAVE ORDER_STATUS ;
ERR_S_OL:
SET #ERRPOS = 208 ;
SET #STATE = SQLSTATE;
ROLLBACK WORK ;

END ORDER_STATUS
END-EXEC;

```

**File: Y PAYMENT 0811**

```

--/*****STORED
PROCEDURE*****
**/
--/** Y_PAYMENT COPYRIGHT FUJITSU
LIMITED 1997 **/
--/** :
**/
--/** :
**/
--/** : SymfoWARE RDB TPC-C Benchmark
**/
--/** : Payment
**/
--/** : 1996/10/12
**/
--/** 1997/03/13 Revision3.3 : Any
Error(Clause 2.3.6) **/
--
/*****
*****/

EXEC SQL
CREATE PROCEDURE
TPCC_SCHEMA.Y_PAYMENT(OUT #STATE
CHAR(5) ,
INOUT #ERRPOS
INTEGER ,
IN #W_ID
SMALLINT,
IN #D_ID
SMALLINT,
INOUT #C_ID
INTEGER ,
IN #C_D_ID
SMALLINT,
IN #C_W_ID
SMALLINT,
IN #H_AMOUNT
INTEGER ,
IN #H_DATE
CHAR(14),
INOUT #W_NAME
CHAR(10),
OUT #W_STREET_1
CHAR(20),
OUT #W_STREET_2
CHAR(20),
OUT #W_CITY
CHAR(20),
OUT #W_STATE
CHAR(2),
OUT #W_ZIP
CHAR(9),
INOUT #D_NAME
CHAR(10),
OUT #D_STREET_1
CHAR(20),
OUT #D_STREET_2
CHAR(20),
OUT #D_CITY
CHAR(20),
OUT #D_STATE
CHAR(2),
OUT #D_ZIP
CHAR(9),

```

```

OUT #C_FIRST
CHAR(16),
OUT #C_MIDDLE
CHAR(2),
INOUT #C_LAST
CHAR(16),
OUT #C_STREET_1
CHAR(20),
OUT #C_STREET_2
CHAR(20),
OUT #C_CITY
CHAR(20),
OUT #C_STATE
CHAR(2),
OUT #C_ZIP
CHAR(9),
OUT #C_PHONE
CHAR(16),
INOUT #C_CREDIT
CHAR(2),
OUT #C_CREDIT_LIM
DECIMAL(12,2),
OUT #C_DISCOUNT
SMALLINT,
INOUT #C_BALANCE
DECIMAL(12,2),
INOUT
#C_YTD_PAYMENT DECIMAL(12,2),
INOUT
#C_PAYMENT_CNT SMALLINT,
OUT #C_SINCE
CHAR(14),
INOUT #C_DATA
VARCHAR(500)
)

PAYMENT:BEGIN
-- DECLARE
DECLARE SQLSTATE CHAR(5)
DEFAULT '00000';
DECLARE @CNT INTEGER;
DECLARE @NAMECOUNT INTEGER;
DECLARE @W_YTD
DECIMAL(12,2);
DECLARE @D_YTD DECIMAL(12,2);
DECLARE @C_DATA476 CHAR(476);
DECLARE @H_DATA CHAR(24);
DECLARE @H_AMOUNT
DECIMAL(12,2); --98.08.10 add

-- CUSTOMER
DECLARE CPCS CURSOR FOR
SELECT C_ID,
C_FIRST,
C_MIDDLE,
C_LAST,
C_STREET_1,
C_STREET_2,
C_CITY,
C_STATE,
C_ZIP,
C_PHONE,
C_SINCE,
C_CREDIT,
C_CREDIT_LIM,
C_DISCOUNT,
C_BALANCE,
C_YTD_PAYMENT,

```

```

        C_PAYMENT_CNT
    FROM TPCC_SCHEMA.CUSTOMER
    WHERE C_LAST = #C_LAST
    AND C_W_ID = #C_W_ID
    AND C_D_ID = #C_D_ID
    ORDER BY C_FIRST;

    IF #C_ID = 0 THEN
        -- Customer Last Name process
        -- (5) CUSTOMER table select
        WHENEVER
    SQLERROR GOTO ERR_S_CM;
        WHENEVER NOT
    FOUND GOTO ERR_S_CM;
        SELECT COUNT(*) INTO
    @NAMECOUNT
    FROM
    TPCC_SCHEMA.CUSTOMER
    WHERE C_LAST = #C_LAST
    AND C_W_ID = #C_W_ID
    AND C_D_ID = #C_D_ID;
        WHENEVER
    SQLERROR CONTINUE;
        WHENEVER NOT
    FOUND CONTINUE;
        -- (6) CUSTOMER
        -- Customer Last Name
    C_FIRST
        -- NAMECOUNT/
    IF @NAMECOUNT > 0 THEN
        SET @CNT = @NAMECOUNT +
    1;
        SET @CNT = @CNT / 2;
        SET @NAMECOUNT = @CNT ;
        WHENEVER
    SQLERROR GOTO ERR_S_CM;
        WHENEVER NOT
    FOUND GOTO ERR_S_CM;
        OPEN CPCS;
        WHENEVER
    SQLERROR CONTINUE;
        WHENEVER NOT
    FOUND CONTINUE;
        SET @CNT = 0;
        WHILE @CNT < @NAMECOUNT DO
            SET @CNT = @CNT + 1;
            -- (6) CUSTOMER table
            WHENEVER
        SQLERROR GOTO ERR_S_CM;
        WHENEVER NOT
    FOUND GOTO ERR_S_CM;
        FETCH CPCS
        INTO #C_ID,
            #C_FIRST,
            #C_MIDDLE,
            #C_LAST,
            #C_STREET_1,
            #C_STREET_2,
            #C_CITY,
            #C_STATE,
            #C_ZIP,
            #C_PHONE,
            #C_SINCE,
            #C_CREDIT,
            #C_CREDIT_LIM,
            #C_DISCOUNT,
            #C_BALANCE,
            #C_YTD_PAYMENT,

```

```

        #C_PAYMENT_CNT;
    WHENEVER
    SQLERROR CONTINUE;
        WHENEVER NOT
    FOUND CONTINUE;
        END WHILE;
        CLOSE CPCS;

    ELSE
        GOTO ERR_S_CM_NAME;
    END IF;
    ELSE
        -- C-ID PROCESS
        -- (7) CUSTOMER table
        WHENEVER
    SQLERROR GOTO ERR_S_CM;
        WHENEVER NOT
    FOUND GOTO ERR_S_CM;
        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 TPCC_SCHEMA.CUSTOMER
        WHERE C_W_ID = #C_W_ID
        AND C_D_ID = #C_D_ID
        AND C_ID = #C_ID;
        WHENEVER
    SQLERROR CONTINUE;
        WHENEVER NOT
    FOUND CONTINUE;
        END IF;

    ----- 98.08.10 H_AMOUNT
        SET @H_AMOUNT = CAST(#H_AMOUNT
    AS DECIMAL(7,0)) / 100.0;
    -----

    -- Customer    #C_BALANCE

```

```

    -- Customer    #C_YTD_PAYMENT
    -- Customer    #C_PAYMENT_CNT
    SET #C_BALANCE = #C_BALANCE -
    @H_AMOUNT ;
    SET #C_YTD_PAYMENT =
    #C_YTD_PAYMENT + @H_AMOUNT ;
    SET #C_PAYMENT_CNT =
    #C_PAYMENT_CNT + 1 ;

    --(8) HISTORY table insert
    IF #C_CREDIT = 'BC' THEN
        ..*****..
        -- Bad Customer
        ..*****..
        -- (8)BC-1 CUSTOMER table select
        WHENEVER
    SQLERROR GOTO ERR_S_CM;
        WHENEVER NOT
    FOUND GOTO ERR_S_CM;
        SELECT C_DATA
        INTO @C_DATA476
        FROM
        TPCC_SCHEMA.CUSTOMER
        WHERE C_ID = #C_ID
        AND C_D_ID = #C_D_ID
        AND C_W_ID = #C_W_ID;
        WHENEVER
    SQLERROR CONTINUE;
        WHENEVER NOT
    FOUND CONTINUE;
        -- (8)BC-2 c_data
        SET #C_DATA = CAST(#C_ID AS
    CHAR(5))
        || CAST(#C_D_ID AS
    CHAR(2))
        || CAST(#C_W_ID AS
    CHAR(4))
        || CAST(#D_ID AS
    CHAR(2))
        || CAST(#W_ID AS
    CHAR(4))
        || CAST(#H_AMOUNT AS
    CHAR(7))
        || ' '
        || @C_DATA476;

        -- (8) BC-3 CUSTOMER table update
        WHENEVER
    SQLERROR GOTO ERR_U_CM;
        WHENEVER NOT
    FOUND GOTO ERR_U_CM;
        UPDATE TPCC_SCHEMA.CUSTOMER
        SET C_BALANCE = #C_BALANCE,
            C_YTD_PAYMENT =
    #C_YTD_PAYMENT,
            C_PAYMENT_CNT =
    #C_PAYMENT_CNT,
            C_DATA = #C_DATA
        WHERE C_ID = #C_ID
        AND C_D_ID = #C_D_ID
        AND C_W_ID = #C_W_ID;
        WHENEVER
    SQLERROR CONTINUE;
        WHENEVER NOT
    FOUND CONTINUE;
    ELSE
        ..*****..
        -- Good Customer
    TPC Benchmark C Full Disclosure

```

```

--*****--
-- (8)GC-1 CUSTOMER table update
      WHENEVER
SQLERROR GOTO ERR_U_CM;
      WHENEVER NOT
FOUND GOTO ERR_U_CM;
      UPDATE TPCC_SCHEMA.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_D_ID = #C_D_ID
        AND C_W_ID = #C_W_ID;
      WHENEVER
SQLERROR CONTINUE;
      WHENEVER NOT
FOUND CONTINUE;
      END IF;

-- (3) DISTRICT table select
      WHENEVER
SQLERROR GOTO ERR_S_DI;
      WHENEVER NOT
FOUND GOTO ERR_S_DI;
      SELECT D_NAME,
        D_STREET_1,
        D_STREET_2,
        D_CITY,
        D_STATE,
        D_ZIP,
        D_YTD
      INTO #D_NAME,
        #D_STREET_1,
        #D_STREET_2,
        #D_CITY,
        #D_STATE,
        #D_ZIP,
        @D_YTD
      FROM TPCC_SCHEMA.DISTRICT
      WHERE D_ID = #D_ID
        AND D_W_ID = #W_ID;
      WHENEVER
SQLERROR CONTINUE;
      WHENEVER NOT
FOUND CONTINUE;
      -- (4) DISTRICT
----- SET @D_YTD = @D_YTD +
#H_AMOUNT;
      SET @D_YTD = @D_YTD +
@H_AMOUNT; --98.08.10 change
      WHENEVER
SQLERROR GOTO ERR_U_DI;
      WHENEVER NOT
FOUND GOTO ERR_U_DI;
      UPDATE TPCC_SCHEMA.DISTRICT
        SET D_YTD = @D_YTD
      WHERE D_ID = #D_ID
        AND D_W_ID = #W_ID;
      WHENEVER
SQLERROR CONTINUE;
      WHENEVER NOT
FOUND CONTINUE;
      -- (1) WAREHOUSE
      WHENEVER
SQLERROR GOTO ERR_S_WH;

```

```

SELECT W_NAME,
        W_STREET_1,
        W_STREET_2,
        W_CITY,
        W_STATE,
        W_ZIP,
        W_YTD
      INTO #W_NAME,
        #W_STREET_1,
        #W_STREET_2,
        #W_CITY,
        #W_STATE,
        #W_ZIP,
        @W_YTD
      FROM TPCC_SCHEMA.WAREHOUSE
      WHERE W_ID = #W_ID;
      WHENEVER
SQLERROR CONTINUE;
      -- (2) WAREHOUSE
----- SET @W_YTD = @W_YTD +
#H_AMOUNT;
      SET @W_YTD = @W_YTD +
@H_AMOUNT; --98.08.10 change
      WHENEVER
SQLERROR GOTO ERR_U_WH;
      UPDATE TPCC_SCHEMA.WAREHOUSE
        SET W_YTD = @W_YTD
      WHERE W_ID = #W_ID;
      WHENEVER
SQLERROR CONTINUE;
      -- (9) HISTORY #H_DATA
      -- HISTORY
      SET @H_DATA = #W_NAME || ' ' ||
#D_NAME;
      WHENEVER
SQLERROR GOTO ERR_I_HI;
      WHENEVER NOT
FOUND GOTO ERR_I_HI;
      INSERT
      INTO TPCC_SCHEMA.HISTORY
        (H_C_ID,
        H_C_D_ID,
        H_C_W_ID,
        H_D_ID,
        H_W_ID,
        H_DATE,
        H_AMOUNT,
        H_DATA)
      VALUES (#C_ID,
        #C_D_ID,
        #C_W_ID,
        #D_ID,
        #W_ID,
        #H_DATE,
        #H_AMOUNT,
        @H_DATA);
      WHENEVER
SQLERROR CONTINUE;
      WHENEVER NOT
FOUND CONTINUE;
      COMMIT WORK ;
      SET #STATE = '00000';
      LEAVE PAYMENT ;

--SQLERR:NOT_FOUND:
ERR_I_HI:
      SET #ERRPOS = 106 ;
      SET #STATE = SQLSTATE;

```

```

      ROLLBACK WORK ;
      LEAVE PAYMENT ;
ERR_S_WH:
      SET #ERRPOS = 202 ;
      SET #STATE = SQLSTATE;
      ROLLBACK WORK ;
      LEAVE PAYMENT ;
ERR_S_DI:
      SET #ERRPOS = 203 ;
      SET #STATE = SQLSTATE;
      ROLLBACK WORK ;
      LEAVE PAYMENT ;
ERR_S_CM_NAME:
      SET #ERRPOS = 205 ;
      SET #STATE = '02000';
      ROLLBACK WORK ;
      LEAVE PAYMENT ;
ERR_S_CM:
      SET #ERRPOS = 205 ;
      SET #STATE = SQLSTATE;
      ROLLBACK WORK ;
      LEAVE PAYMENT ;
ERR_U_WH:
      SET #ERRPOS = 302 ;
      SET #STATE = SQLSTATE;
      ROLLBACK WORK ;
      LEAVE PAYMENT ;
ERR_U_DI:
      SET #ERRPOS = 303 ;
      SET #STATE = SQLSTATE;
      ROLLBACK WORK ;
      LEAVE PAYMENT ;
ERR_U_CM:
      SET #ERRPOS = 305 ;
      SET #STATE = SQLSTATE;
      ROLLBACK WORK ;

      END PAYMENT
      END-EXEC;

```

**File: Y STOCKLV pgsr**

```

--/*****STORED
PROCEDURE*****
**/
--/** Y_STOCKLV COPYRIGHT FUJITSU
LIMITED 1997 **/
--/** :
**/
--/** :
**/
--/** : SymfoWARE RDB TPC-C Benchmark
**/
--/** : StockLevel
**/
--/** : 1996/10/12
**/
--/** 1997/03/13 Revision3.3 : Any
Error(Clause 2.3.6) **/
--
/*****
***/

EXEC SQL

```

```

CREATE PROCEDURE
TPCC_SCHEMA.Y_STOCKLV(OUT #STATE
CHAR(5),
                INOUT #ERRPOS
INTEGER,
                IN #W_ID
SMALLINT,
                IN #D_ID
SMALLINT,
                IN #THRESHOLD
INTEGER,
                INOUT #LOW_STOCK
INTEGER)

STOCK_LEVEL:BEGIN
-- DECLARE
  DECLARE SQLSTATE      CHAR(5)
DEFAULT '00000';
  DECLARE @O_ID         INTEGER;
  DECLARE @TMP_O_ID     INTEGER;
  DECLARE @T02          INTEGER;
  DECLARE @T03          INTEGER;
  DECLARE @T04          INTEGER;
  DECLARE @T05          INTEGER;
  DECLARE @T06          INTEGER;
  DECLARE @T07          INTEGER;
  DECLARE @T08          INTEGER;
  DECLARE @T09          INTEGER;
  DECLARE @T10          INTEGER;
  DECLARE @T11          INTEGER;
  DECLARE @T12          INTEGER;
  DECLARE @T13          INTEGER;
  DECLARE @T14          INTEGER;
  DECLARE @T15          INTEGER;
  DECLARE @T16          INTEGER;
  DECLARE @T17          INTEGER;
  DECLARE @T18          INTEGER;
  DECLARE @T19          INTEGER;

-- (1) DISTRICT table select
                WHENEVER
SQLERROR GOTO ERR_S_DI;
                WHENEVER NOT
FOUND GOTO ERR_S_DI;
  SELECT D_NEXT_O_ID
  INTO @O_ID
  FROM TPCC_SCHEMA.DISTRICT
  WHERE D_W_ID = #W_ID
  AND D_ID = #D_ID;
                WHENEVER
SQLERROR CONTINUE;
                WHENEVER NOT
FOUND CONTINUE;

-- (2) ORDERLINE table select
-- (3) STOCK table select and count ITEM

  SET #LOW_STOCK = 0;
  SET @TMP_O_ID = @O_ID - 20;
  SET @O_ID = @O_ID - 1;
  SET @T19 = @O_ID - 1;
  SET @T18 = @T19 - 1;
  SET @T17 = @T18 - 1;
  SET @T16 = @T17 - 1;
  SET @T15 = @T16 - 1;
  SET @T14 = @T15 - 1;
  SET @T13 = @T14 - 1;
  SET @T12 = @T13 - 1;

```

```

  SET @T11 = @T12 - 1;
  SET @T10 = @T11 - 1;
  SET @T09 = @T10 - 1;
  SET @T08 = @T09 - 1;
  SET @T07 = @T08 - 1;
  SET @T06 = @T07 - 1;
  SET @T05 = @T06 - 1;
  SET @T04 = @T05 - 1;
  SET @T03 = @T04 - 1;
  SET @T02 = @T03 - 1;

                WHENEVER
SQLERROR GOTO ERR_S_STOL;
                WHENEVER NOT
FOUND GOTO ERR_S_STOL;
  SELECT COUNT(DISTINCT S_I_ID)
  INTO #LOW_STOCK
  FROM TPCC_SCHEMA.ORDERLINE,
  TPCC_SCHEMA.STOCK
  WHERE OL_W_ID = #W_ID
  AND OL_D_ID = #D_ID
  AND OL_O_ID
  IN(@TMP_O_ID,
@T02,@T03,@T04,@T05,@T06,@T07,@T08,@
T09,@T10,
@T11,@T12,@T13,@T14,@T15,@T16,@T17,@
T18,@T19,
  @O_ID)
  AND OL_NUMBER
IN(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15)
--$
--$ AND OL_O_ID
--$ BETWEEN @TMP_O_ID
--$ AND @O_ID
  AND S_I_ID = OL_I_ID
  AND S_W_ID = #W_ID
  AND S_QUANTITY < #THRESHOLD;
                WHENEVER
SQLERROR CONTINUE;
                WHENEVER NOT
FOUND CONTINUE;
  COMMIT WORK ;
  SET #STATE = '00000';
  LEAVE STOCK_LEVEL ;

--SQLERR:NOT_FOUND
ERR_S_DI:
  SET #ERRPOS = 203 ;
  SET #STATE = SQLSTATE;
  ROLLBACK WORK ;
  LEAVE STOCK_LEVEL ;

ERR_S_STOL:
  SET #ERRPOS = 248 ;
  SET #STATE = SQLSTATE;
  ROLLBACK WORK ;

END STOCK_LEVEL
END-EXEC;

File: Y_stored_pgsr.bat

rdbddlex -d TPCC -x Y_NORDER
rdbddlex -d TPCC -x Y_PAYMENT_0811

```

```

rdbddlex -d TPCC -x Y_ORDERSTAT_pgsr
rdbddlex -d TPCC -x Y_DELIVERY_0811
rdbddlex -d TPCC -x Y_STOCKLV_pgsr

```

# Appendix F: 180 Day Space Calculation

Note : Numbers are in KBytes unless otherwise specified						
<b>Warehouses</b>	1422	<b>tpmC</b>	17056.63	<b>tpmC/W</b>	11.99	
<b>Table</b>	<b>Rows</b>	<b>Data</b>	<b>Index</b>	<b>5% Space</b>	<b>8H Space</b>	<b>Total Space</b>
Warehouse	1,458	1,524	0	76		1,600
District	14,580	14,661	0	733		15,394
Item	100,000	14,289	0	714		15,003
New-order	13,122,000	1,331,316	759,456	104,539		2,195,311
History	43,740,000	3,431,808	0		642,360	4,074,168
Orders	43,740,000	4,387,284	2,172,096		1,227,774	7,787,154
Customer	43,740,000	38,881,620	2,087,824	2,048,472		43,017,916
Order-line	437,336,194	47,226,160	0		8,839,716	56,065,876
Stock	145,800,000	64,800,324	0	3,240,016		68,040,340
DIRECTORY FILE		18,432				18,432
Dictionary		102,400				102,400
<b>Totals</b>		<b>160,209,818</b>	<b>5,019,376</b>	<b>5,394,551</b>	<b>10,709,851</b>	<b>181,333,595</b>

Table	Freespace
Warehouse	74,049
District	18,603
Item	715
New-order	637,956
History	868,320
Orders	1,220,508
Customer	1,749,762
Order-line	11,407,432
Stock	2,916,054
Indexes	1755448
<b>Total</b>	<b>20,648,847</b>

<b>Dynamic space</b>	55,045,252	Sum of Data for Order, Order-Line and History (excluding free extents)
<b>Static space</b>	115,599,229	Data + Index + 5% Space + Overhead - Dynamic space
<b>Free space</b>	15,254,296	
<b>Daily growth</b>	10,303,281	(Dynamic space/W * 62.5)* tpmC
<b>Daily spread</b>	0	Free-Space - 1.5 * Daily-Growth
<b>180 day (KB)</b>	1,970,189,839	1,970,189,839
<b>180 day (GB)</b>	1,878.92	1,878.92 <- Assumes no Daily Spread
<b>Maximum</b>	15,454,921.76	free space allowed

Measured Configuration			Space Usage	
Type	Number	Total GB	Usage	Size (GB)
9GB Drives	181	1,533.07	180-day Space	1,878.92
Totals	181.00	1,533.07	Root,swap,usr	0.57
			Log	101.64
			<b>Total</b>	<b>1,981.13</b>

---

		Deficit	448.06
<b>MB log used</b>	12701.8222		
<b>Total N-O Txn</b>	2007345		
<b>KB log / Txn</b>	6.4795		
<b>8 Hour Log (GB)</b>	50.59		
<b>After image Log [GB]</b>	3.99		
<b>Before image Log</b>	1.95		
<b>Log index</b>	0.05		
<b>Log disks [9GB]</b>	12	8Hour Log + ( AI Log*mr )	
Extra log space	39.07		
Deficit after including excess log space			408.99
<b>Additional 9GB disks needed</b>			<b>49</b>
Disk Capacities			
	9GB-DISK	8.47	
Non-DB space used			
OS (root+etc)	0.31	OS_disk - DIRECTORY FILE	
Swap	0.26		

## Appendix G: Distribution of Tables and Log

Disk No	Partition	Using	Capacity
0	C: NTFS	Operating System SWAP SymfoWARE DICTIONARY	4095MB
1	D: NTFS	DIRECTORY FILE	8676MB
2	E: NTFS	After Image LOG (Mirror set)	8676MB
3	E: NTFS	After Image LOG (Mirror set)	8676MB
4	F: NTFS	Before Image LOG (Mirror set)	8676MB
5	F: NTFS	Before Image LOG (Mirror set)	8676MB
6		Striping A	4149MB
7		Striping B	4149MB
8		Striping C	4149MB
9		Striping C	4149MB
10		Striping D	4149MB
11		Striping D	4149MB
12		Striping A	4149MB
13		Striping B	4149MB
14		Striping C	4149MB
15		Striping C	4149MB
16		Striping D	4149MB
17		Striping D	4149MB
18		Striping A	4149MB
19		Striping B	4149MB
20		Striping C	8682MB
21	H: NTFS	Archive LOG (Stripe set)	8682MB
22		Striping D	4149MB
23		Striping D	8682MB
24		Striping A	8682MB
25		Striping B	8682MB
26		Striping C	4149MB
27		Striping C	4149MB
28		Striping C	4149MB
29		Striping D	4149MB
30		Striping D	4149MB
31		Striping A	4149MB
32		Striping B	4149MB
33		Striping C	4149MB
34		Striping C	4149MB
35		Striping D	4149MB



Disk No	Partition	Using	Capacity
36		Striping D	4149MB
37		Striping A	4149MB
38		Striping B	4149MB
39		Striping C	4149MB
40		Striping C	4149MB
41		Striping D	4149MB
42		Striping D	4149MB
43		Striping A	4149MB
44		Striping B	4149MB
45		Striping C	4149MB
46		Striping C	4149MB
47	H: NTFS	Archive LOG (Stripe set)	8682MB
48	H: NTFS	Archive LOG (Stripe set)	8682MB
49		Striping D	4149MB
50		Striping A	4149MB
51		Striping B	4149MB
52		Striping C	4149MB
53		Striping C	4149MB
54		Striping D	4149MB
55		Striping D	4149MB
56		Striping A	4149MB
57		Striping B	4149MB
58		Striping C	4149MB
59		Striping C	4149MB
60		Striping E	4149MB
61		Striping F	4149MB
62		Striping G	4149MB
63		Striping H	4149MB
64		Striping I	4149MB
65		Striping I	4149MB
66		Striping F	4149MB
67		Striping F	4149MB
68		Striping D	4149MB
69		Striping G	4149MB
70		Striping H	4149MB
71		Striping J	4149MB
72		Striping C	4149MB
73		Striping D	4149MB
74		Striping D	4149MB
75		Striping A	4149MB
76		Striping B	4149MB
77		Striping C	8682MB
78		Striping C	8682MB
79		Striping D	8682MB
80		Striping D	8682MB
81		Striping A	8682MB
82		Striping B	4149MB

Disk No	Partition	Using	Capacity
83		Striping C	4149MB
84		Striping C	4149MB
85		Striping D	4149MB
86		Striping D	4149MB
87		Striping A	4149MB
88		Striping B	4149MB
89		-	4149MB
90		Striping C	4149MB
91		Striping C	4149MB
92		Striping D	4149MB
93		Striping D	4149MB
94		Striping A	4149MB
95		Striping B	4149MB
96		Striping C	4149MB
97		Striping C	8682MB
98		Striping D	8682MB
99		Striping D	8682MB
100		Striping A	8682MB
101		Striping B	8682MB
102	G: NTFS	LOG Index (Mirror set)	1024MB
103	G NTFS	LOG Index (Mirror set)	1024MB
104		Striping C	4149MB
105		Striping C	4149MB
106		Striping D	4149MB
107		Striping D	4149MB
108		Striping A	4149MB
109		Striping B	4149MB
110		-	4149MB
111		Striping C	8682MB
112		Striping C	8682MB
113		Striping D	8682MB
114		Striping D	8682MB
115		Striping A	8682MB
116		Striping B	8682MB
117		Striping C	8682MB
118		Striping C	4149MB
119		Striping D	8682MB
120		-	8682MB
121		Striping D	8682MB
122		Striping A	8682MB
123		Striping B	8682MB
124		Striping C	8682MB
125		Striping C	4149MB
126		Striping D	4149MB
127		Striping D	4149MB
128		Striping A	4149MB
129		Striping B	4149MB

Disk No	Partition	Using	Capacity
130		Striping C	4149MB
131		Striping C	4149MB
132		Striping D	4149MB
133		Striping D	4149MB
134		Striping A	4149MB
135		Striping B	4149MB
136		Striping C	4149MB
137		Striping C	4149MB
138		Striping D	4149MB
139		Striping D	4149MB
140		Striping A	4149MB
141		Striping B	4149MB
142		Striping C	4149MB
143		Striping C	4149MB
144		Striping D	4149MB
145		Striping D	4149MB
146		Striping A	8682MB
147		Striping B	4149MB
148		Striping C	8682MB
149		Striping C	8682MB
150		Striping D	8682MB
151		Striping D	8682MB
152	H: NTFS	Archive LOG (Stripe set)	8682MB
153		Striping A	4149MB
154		Striping B	4149MB
155		Striping C	4149MB
156		Striping C	4149MB
157		Striping D	4149MB
158		Striping D	4149MB
159		Striping A	4149MB
160		Striping B	4149MB
161		Striping C	4149MB
162		Striping C	4149MB
163		Striping D	4149MB
164		Striping D	4149MB
165		Striping A	4149MB
166		Striping B	4149MB
167		Striping C	4149MB
168		Striping C	4149MB
169		Striping D	4149MB
170		Striping D	4149MB
171	H: NTFS	Archive LOG (Stripe set)	8682MB
172	H: NTFS	Archive LOG (Stripe set)	8682MB
173	H: NTFS	Archive LOG (Stripe set)	8682MB
174		Striping A	4149MB

Disk No	Partition	Using	Capacity
175		Striping B	8682MB
176		Striping C	4149MB
177		Striping C	4149MB
178		Striping D	4149MB
179		Striping D	4149MB
180		-	4149MB

Striping A	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
District	1231
Stock	400008
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544

Striping B	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
WareHouse	2798
Stock	400000
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544

Striping C	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
Stock	454002
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544

Striping D	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
Stock	400000
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544

Striping E	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
Stock	400000
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544
Item	1435

Striping F	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
Stock	400000
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544
Item	1428

Striping G	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
District	1231
Stock	400008
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544
Item	1428

Striping H	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
WareHouse	2798
Stock	400000
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544
Item	1428

Striping I	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
Stock	454002
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544
Item	1428

Striping J	
Table name	Size(Kbytes)
NewOrder	12155
NewOrder Index	5544
Stock	454002
Customer	250810
Customer Index	6976
Orders	34615
Orders Index	13904
OrderLine	361632
History	26544
Item	716

# Appendix H: Price Quotes

SEP 10 1998 10:25 FR MICROSOFT BLDG 6  
 Microsoft Corporation 101.240 002 0000  
 One Microsoft Way Telex 160520  
 Redmond, WA 98052-6399 Fax 206 936 7329

TO 914087468502 P.02/03



September 10, 1998

Mr. John K. Howell  
 Performance Analyst  
 Building A-2134  
 Amdahl Corporation  
 1250 E. Arques Avenue  
 Sunnyvale, CA 94088

Dear John,

Here is the information you requested regarding US pricing of certain Microsoft products:

Microsoft Windows NT, Enterprise Edition 4.0, including 25 CALs	\$3,999
Microsoft Windows NT Server 4.0, including 5 CALs (8 copies @ \$809)	\$6,472
Visual C++ Professional 6.0	\$549
5-yr maintenance for above software @ \$2095/yr	\$10,475

This quote is valid for the next 60 days. Please let me know if I can be of any further assistance.

Best regards,

Mark Hassall  
 Product Manager, Microsoft Windows NT Server



August 24, 1998

Fujitsu LIMITED  
Tokyo, Japan

Gentlemen :

Per your request I am enclosing the pricing information regarding TUXEDO 6.x that you requested. This pricing applies to Tuxedo 6.1, 6.2, 6.3 and 6.4. Please note that Tuxedo 6.4 is our most recent version of Tuxedo but that all 6.x releases are generally available. Core functionality services pricing is appropriate for your activities. As per the table below, Fujitsu server systems are classified in one of 5 tiers based on CPU type and capacity.

This pricing quotation will be valid through November 30,1998.

***Tuxedo Core Functionality Services (CFS) Program Product Pricing and Description***

TUX-CFS provides a basic level of middleware support for distributed computing, and is best used by organizations with substantial resources and knowledge for advanced distributed computing implementations.

TUX-CFS prices are server only and are based on the overall performance characteristics of the server and uses the same five tier computer classification as TUXEDO 6.x. Prices range from \$3,000 for Tier 1 to \$250,000 for Tier 5. Under this pricing option EVERY system running TUX-CFS at the user site must have a TUXEDO license installed and pay the appropriate per server license fees.

**BEA Tux/CFS Version 6.x Unlimited User License Fees Per Server**

Unlimited User License fees per server	Number of Users	Dollar Amount	Maintenance (5 x 8) per year	Maintenance (7 x 24) per year
Tier 1 -- PC Servers with 1 or 2 CPUs, entry level RISC Uni-processor workstations and servers	Unlimited	\$3,000.00	\$450.00	\$660.00
Tier 2 -- PC Servers with 3 or 4 CPUs, Midrange RISC Uni-processor servers and workstations	Unlimited	\$12,000.00	\$1,800.00	\$2,640.00
Tier 3 -- Midrange Multiprocessors, up to 8 CPUs per system capacity	Unlimited	\$30,000.00	\$4,500.00	\$6,600.00
Tier 4 -- Large (more than 8, less than 32 CPUs) and Mainframe Systems	Unlimited	\$100,000.00	\$15,000.00	\$22,000.00
Tier 5 -- Massively Parallel Systems, > 32 processors; All Mainframes	Unlimited	\$250,000.00	\$37,500.00	\$55,000.00

**Intel based server tier classifications:**

10/31/97

BEA SYSTEMS, INC.

Platform	Operating System	Tier 1	Tier 1	Tier 2	Tier 3	Tier 3
Intel Pentium/ Pentium Pro PCs	Interactive R3.2 ESIX SVR 4.0 SCO UNIX 3.2.2 and 3.2.4 SCO ODT 2.x,3.x Solaris x86 2.X UnixWare, Windows NT 3.5/4.0	All 386/486 PCs are Class 1	ALL Pentium and Pentium Pro PCs with 1 or 2 CPUs capacity are Tier 1	ALL Pentium and Pentium Pro PCs with 3 or 4 CPUs capacity are Tier 2		ALL Pentium and Pentium Pro PCs with 5,6,7, or 8 CPUs are Tier 3

**Sun Microsystems Server Tier classifications**

Tier 1	Tier 2	Tier 3	Tier 3	Tier 4	Tier 5
Class 2	Class 3	Class 4	Class 5	Class 6	Class 7
Station 5/85 Station 4 Station 20/50 Station 20/51 Station 20/61 Ultra 1 140/170 Server 470 Server 5/70 Server 20/50 Server 20/51 Server 20/61 Ultra 2 Desktop Ultra 5 Ultra 10, 10S	Server 5/85 Station 20/71 Server 20/71 Ultra Enterprise 1 &150 Ultra Enterprise 2 -2100,2200 Ultra 60	Station 20/502 MP 20/612 MP 20/514 MP 20/HS11 20/712 MP Server 1000 Server 1000E Server 20/502 Server 20/712 Server 20/612 Server 20/514 Ultra Enterprise 2 -2300 Ultra 450	SparcCenter 1000 Ultra Enterprise 3000 Ultra Enterprise 4000 & 5000 < 8 proc.	SparcCenter 2000 SparcCenter 2000E Ultra Enterprise 4000 & 5000 & 6000 Between 8 and 32 proc.  CRS6400 (< 32 proc.)	CRS6400 (≥32 proc.) Ultra Enterprise 6000 (≥32 proc.) Ultra Enterprise 10000 (all systems)

Very Truly Yours,

Lewis D. Brentano,  
Director, Market Planning



**NBase Switch Comm.**

8943 Fullbright Ave.  
Chatsworth, CA 91311

Tel : 818-773-0900  
Fax: 818-773-0906

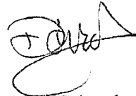
**Fax Cover Sheet**

<b>ATTN.:</b>	<b>John Howell</b>
<b>Company:</b>	<b>Amdahl Corp.</b>
<b>Phone:</b>	<b>408-746-7802</b>
<b>Fax:</b>	<b>408-746-8502</b>
<b>FROM:</b>	<b>David Crispel</b>
<b>cc:</b>	
<b>Date:</b>	<b>8/27/98</b>
<b>No. of pages including cover:</b>	<b>1</b>

Dear John

Following our telephone conversation, I am confirming the price of \$2,167 per unit of NH2012R, if purchase 4 units minimum. This offer is good for 60 days of above date.

Best regards



David Crispel

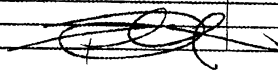
**QUOTATION**

COMPEX, INC.  
 4051 E. LA PALMA AVE #A  
 ANAHEIM CA. 92807  
 (714) 630-7112  
 (714) 630-6111 FAX  
 WWW.COM

DATE: AUG 26, 98  
 QUOTE #

To: JOHN/AMDAHL

CUST PH. # (408) 746-7802  
 CUST FAX # (408) 746-8502

ITEM	QTY	P. N	DESCRIPTIONS	UNIT	TOTAL
TP1008	1910		8 Port RJ45&BNC ETHERNET CASCADABLE HUB  *Life-Time Warranty*	30.00	\$57300.00
			TOTAL		
TERM					
VALID	OR	DAYS	90 days		
FR			T. J. FENG 		

# Appendix I: Auditors attestation letter



Sponsor: Mr. Kazuhiko Saito  
 Manager, Development DEPT. I  
 MIDDLEWARE DIV.  
 SOFTWARE GROUP  
 Fujitsu Limited  
 140 Miyamoto  
 Numazu-shi, Shizuoka, 410-0396, Japan

September 11, 1998

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

Platform: GRANPOWER 5000 Model 680 c/s  
 Operating system: WindowsNT 4.0 Enterprise Edition  
 Database Manager: SymfowARE Server Enterprise Edition V1.1  
 Transaction Manager: BEA Tuxedo Version 6.4 CFS

The results were:

CPU's Speed	Memory	Disks	NewOrder 90% Response Time	tpmC
Server: GRANPOWER 5000 Model 680 (see note)				
4 x Pentium II Xeon (400 MHz)	4 GB (1 MB cache/cpu )	125 x 4 GB 45 x 9 GB	2.43 Seconds	17056.63
two Clients: ErgoPro M665/350 (Specification for each)				
1 x Pentium II (350 MHz)	256 MB ( 512 KB cache)	1 x 4.3 GB	n/a	n/a
Six Clients: FMV-6233D9 (Specification for each)				
1 x Pentium II (233 MHz)	256 MB ( 512 KB cache)	1 x 4.3 GB	n/a	n/a

In my opinion, these performance results were produced in compliance with the TPC requirements for Revision 3.4 of the benchmark. The following verification items were given special attention:

- The transactions were correctly implemented
- The database records were the proper size
- The database was properly scaled and populated
- The ACID properties were met
- Input data was generated according to the specified percentages
- The transaction cycle times included the required keying and think times
- The reported response times were correctly measured.
- At least 90% of all delivery transactions met the 80 Second completion time limit
- All 90% response times were under the specified maximums
- The measurement interval was representative of steady state conditions
- The reported measurement interval was 30 minutes (1800 seconds)
- One checkpoint was taken during the measurement interval
- Measurement repeatability was verified
- The 180 day storage requirement was correctly computed
- The system pricing was verified for major components and maintenance

Additional Audit Notes:

The 4 GB disks used in the measurement were replaced by 9 GB disks in the priced configuration. Based on data collected and specification of the disks, it is my opinion that this substitution would have no negative impact on the reported performance.

Respectfully Yours,



François Raab  
President

