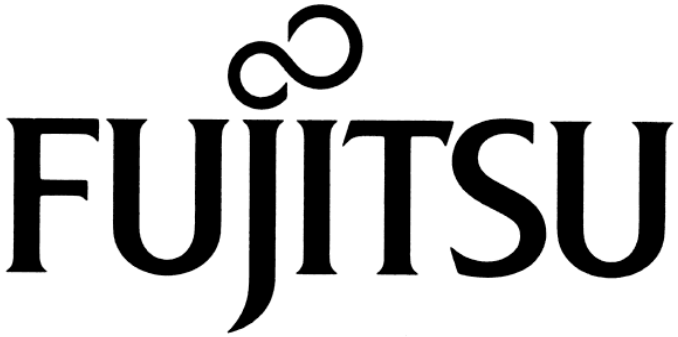


TPC Benchmark™C

Full Disclosure Report

Fujitsu
GRANPOWER 5000
Model 680 c/s w/ 8 Front-Ends

running

SymfoWARE Server
Enterprise Edition for VLM V1.1

September 22, 1998

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.

Fujitsu believes that the information in this document is accurate as of the publication date. The information in this document is subject to change without notice. Fujitsu assumes no responsibility for any errors that may appear in this document.

The pricing information in this document is believed to accurately reflect the current prices as of the publication date. However, Fujitsu provides no warranty of the pricing information in this document.

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.

Printed in the United States September 22, 1998

FUJITSU

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 Version3.4, 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.

FUJITSU

Abstract

Overview

This report documents the methodology and results of the TPC Benchmark C test conducted by Fujitsu Ltd. on the Fujitsu GRANPOWER 5000 Model 680 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'st, 1999

Standard and Executive Summary Statements

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

Auditor

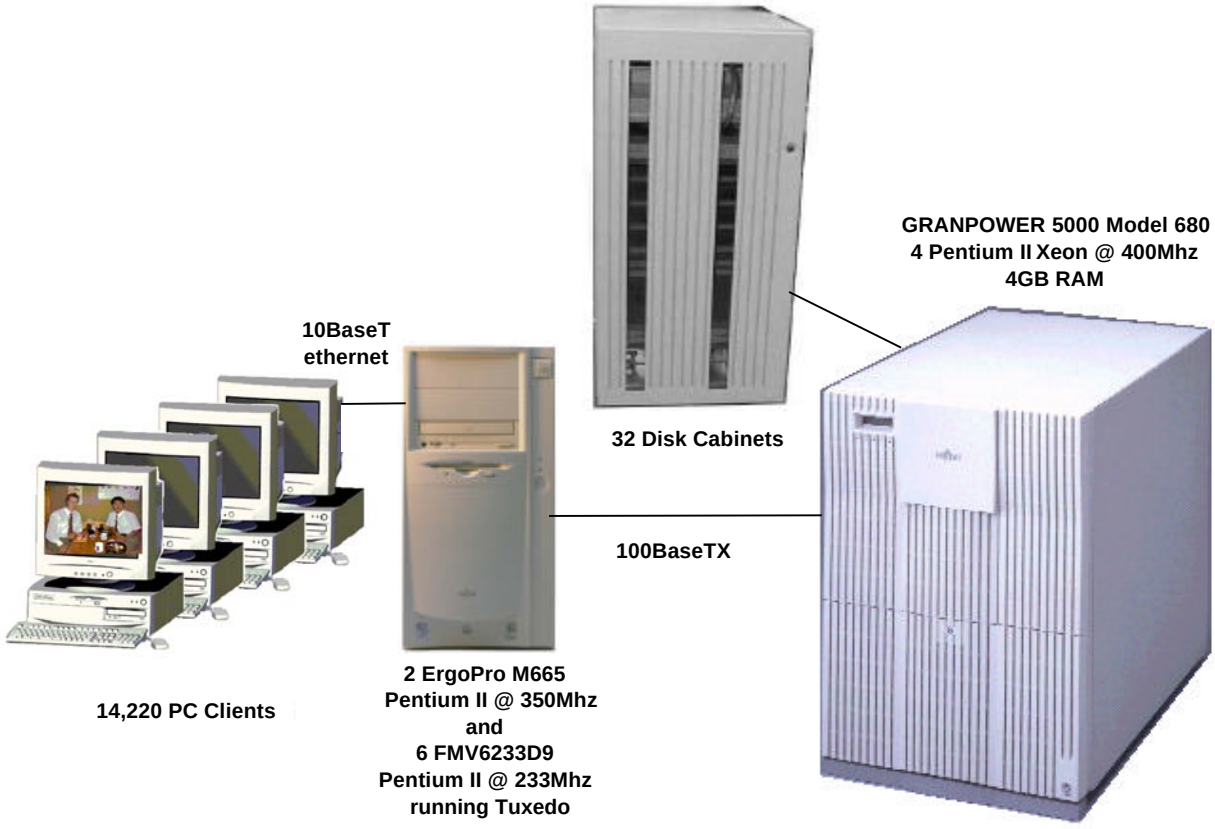
The benchmark configuration, environment and methodology, along with the pricing model used to calculate the cost per tpmC, were audited by Francois Raab of Information Paradigm to verify compliance with the relevant TPC specifications.

Priced Configuration

FUJITSU	GRANPOWER 5000 Model 680 c/s w/ 8 Front-Ends		TPC-C Rev 3.4 Report Date: September 22, 1998
Total System Cost	**TPC-C Throughput**	**Price/Performance**	**Availability Date**
$618,090	**17,056.63 tpmC**	**$36.24/tpmC**	**March 1'st, 1999**

Processors	Database Manager	Operating system	Other Software	Number of users
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

GRANPOWER 5000 Model 680
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 (10000RPM)		
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

GRANPOWER 5000 Model 680 c/s w/ 8 Front-Ends

SymfoWARE Server Enterprise Edition V1.1

MQTH, Computed Maximum Qualified Throughput			17,056.63 tpmC
Response Times (in seconds)	**Average**	**90%**	**Max.**
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**

Transaction Mix, in percent of total transaction	
New-Order	**44.71**
Payment	**43.07**
Order-Status	**4.10**
Delivery	**4.05**
Stock-Level	**4.07**

Emulation Delay (in seconds)	**Resp. Time**	**Menu**
New-Order	.1	.1
Payment	.1	.1
Order-Status	.1	.1
Delivery (interactive)	.1	.1
Stock-Level	.1	.1

Keying/Think Times (in seconds)	**Min.**		**Average**		**Max.**	
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

Test Duration	
Ramp-up time (seconds)	**1,790**
Measurement interval	**1,800**
Transactions during measurement interval	**511,699**

Checkpointing	
Number of checkpoints	**1**
Checkpoint interval	**1,800**

Reproducibility Run	
Reported measurement	**17,056.63**
Reproducibility measurement	**17,011.80**
Difference	**.26%**

Detailed Pricing Information

FUJITSU

Detailed Pricing Information

GRANPOWER 5000

Model 680 c/s w/ 8 Front-Ends

TPC-C Rev 3.4

Report Date:

September 22, 1998

Order Number	Description	Quantity	Third Party	Unit Price	Extended Price	Maintenance rate/unit		5 Years Maintenance
Server Hardware								
GP5M830A	GRANPOWER 5000 Model 680	1		14,005.00	14,005.00	2,100.75	/5yr	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	/5yr	2,117.25
GP5-RM51G	512MB ECC RAM Upgrade	8		2,976.00	23,808.00	446.40	/5yr	3,571.20
TMSRVR-OPTION-5633	Mylex DAC960PJ 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	/5yr	3,830.40
GP5MS621SA	Additional Shelf	16		1,446.00	23,136.00	216.90	/5yr	3,470.40
GP5MU829A	SCSI Cable (2.0m)	24		121.00	2,904.00	18.15	/5yr	435.60
GP5MU831A	SCSI Cable (0.3m)	8		57.00	456.00	8.55	/5yr	68.40
GP5MHDH9GA	9GB 7,200rpm disk	225		951.00	213,975.00	142.65	/5yr	32,096.25
GP5-HDH94	9GB 10,000rpm disk	5		1,108.00	5,540.00	166.20	/5yr	831.00
GP5-125	SCSI Adapter (Ultra-2 Wide)	1		455.00	455.00	68.25	/5yr	68.25
GP5-182	FastEthernet Adapter (10/100BaseTX)	2		82.00	164.00	12.30	/5yr	24.60
PD53K0E3	Fujitsu e175 Display	1		579.00	579.00	86.85	/5yr	86.85
GP5UDT301	12GB Internal DDS-3 DAT Drive	1		1,208.00	1,208.00	181.20	/5yr	181.20
	Server Hardware Subtotals				340,745.00			58,482.15
Server Software								
	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	/5yr	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
	Server Software Subtotals				44,548.00			30,475.00
Client Hardware								
U2H27D6E31E3	Fujitsu ErgoPro M665/350 w/ 64MB memory, 4.3GB disk	2		1,945.00	3,890.00	291.75	/5yr	583.50
PL060171	64MB Memory for ErgoPro	2		300.00	600.00	45.00	/5yr	90.00
PL060172	128MB Memory for ErgoPro	2		607.00	1,214.00	91.05	/5yr	182.10
PN010297	FastEthernet Adapter (10/100BaseTX) for ErgoPro	6		131.00	786.00	19.65	/5yr	117.90
FMV9D50A01	Fujitsu FMV-6233D9	6		1,230.00	7,380.00	184.50	/5yr	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	/5yr	543.60
FMV-188	FastEthernet Adapter (10/100BaseTX) for FMV-6233D9	12		67.00	804.00	10.05	/5yr	120.60
PD53K0E3	Fujitsu e175 Display	8		579.00	4,632.00	86.85	/5yr	694.80
	Client Hardware Subtotals				22,930.00			3,439.50
Client Software								
	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
	Client Software Subtotals				31,222.00			18,750.00
User Connectivity								
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
	User Connectivity Subtotals				67,498.00			0.00
	Totals				506,943.00			111,146.65
	5 Year cost							618,090
	tpmC							17,056.63
	$ / tpmC							36.24
	* : 10% or minimum of 2 spares are included.							
Third Party :	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. Thank you.

FUJITSU

Table Of Contents

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.

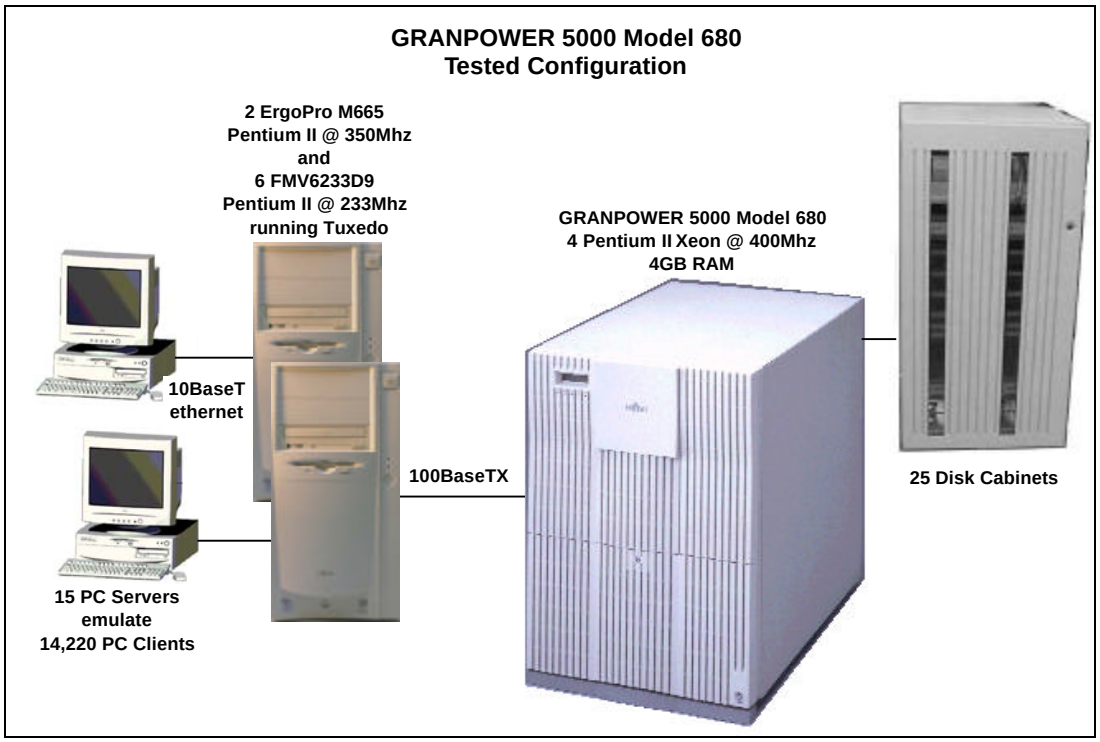
The System Under Test (SUT), a GRANPOWER 5000 Model 680 c/s w/ 8 Front-Ends, is depicted in the following diagrams.

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

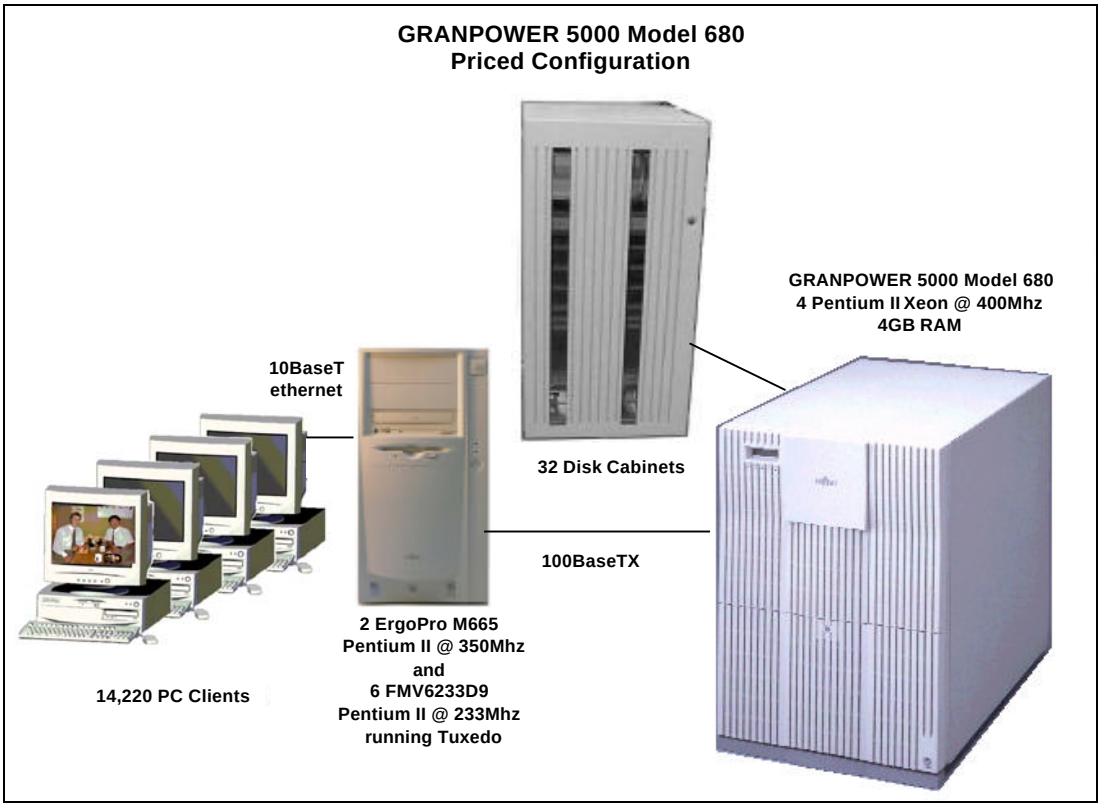
There were differences between the priced and measured configurations. The differences are:

- 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.

GRANPOWER 5000 Tested Configuration



GRANPOWER 5000 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 queuing 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 of5 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 Section1.4

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

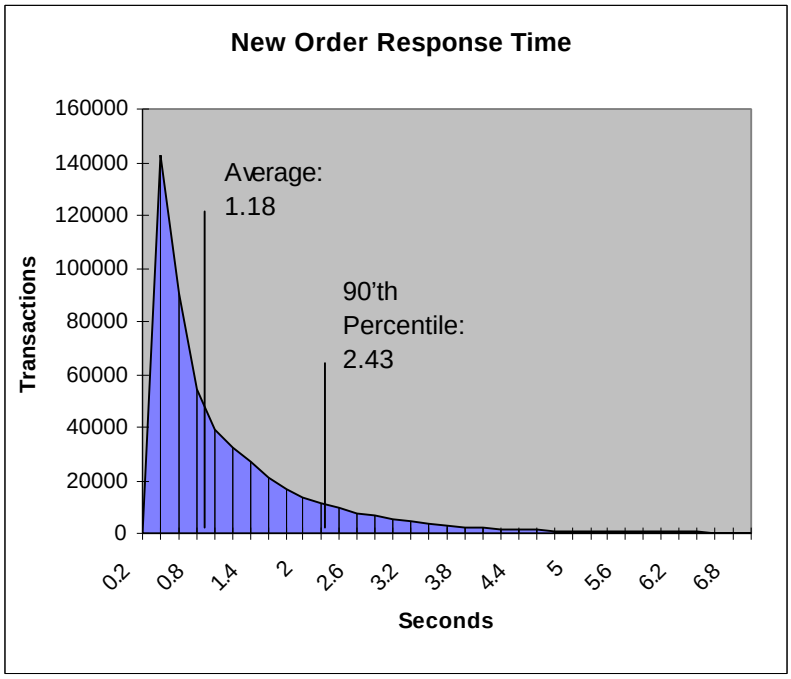


Figure 5.2: Payment Response Time Distribution

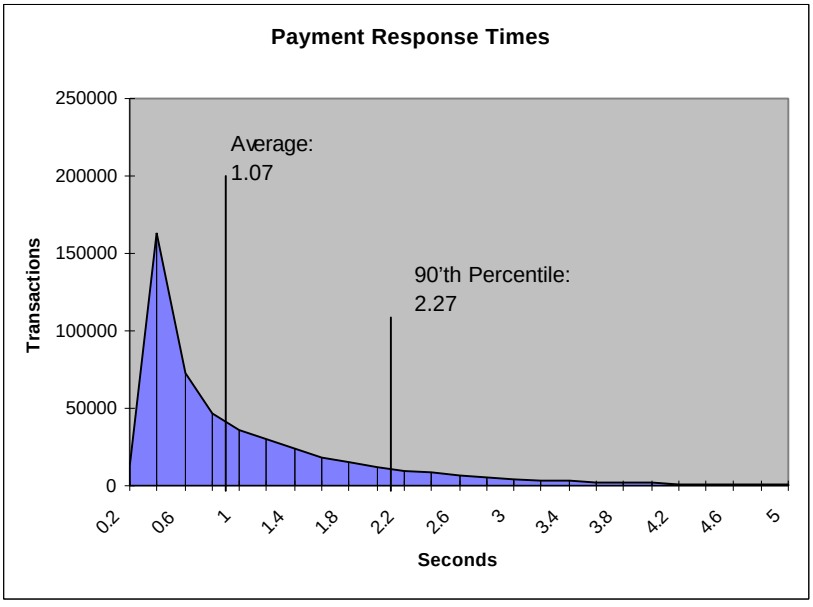


Figure 5.3: Order Status Response Time Distribution

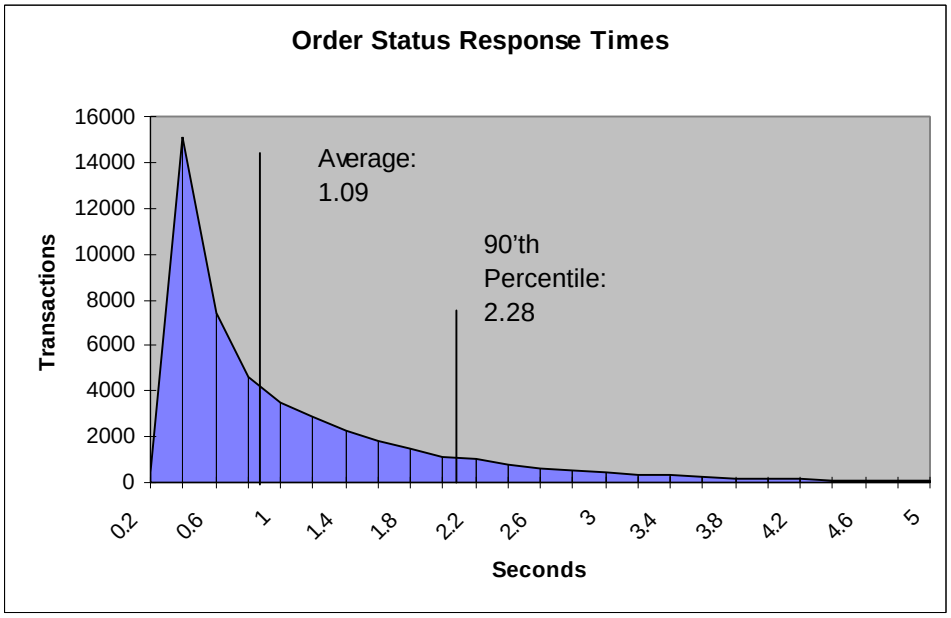


Figure 5.4: Delivery Response Time Distribution

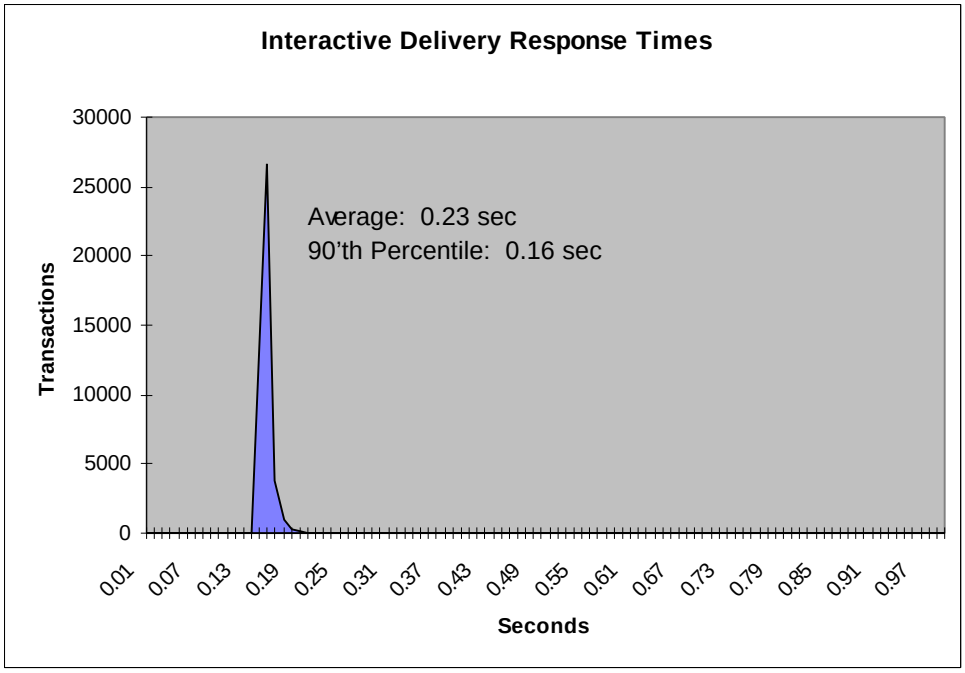


Figure 5.5: Stock Level Response Time Distribution

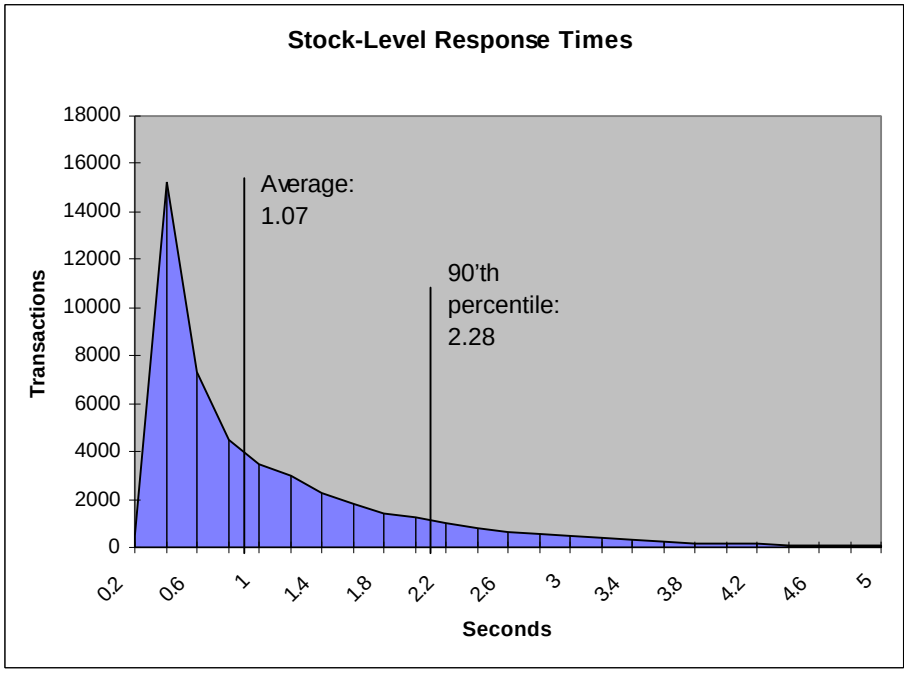


Figure 5.6: New Order Think Time Frequency Distribution

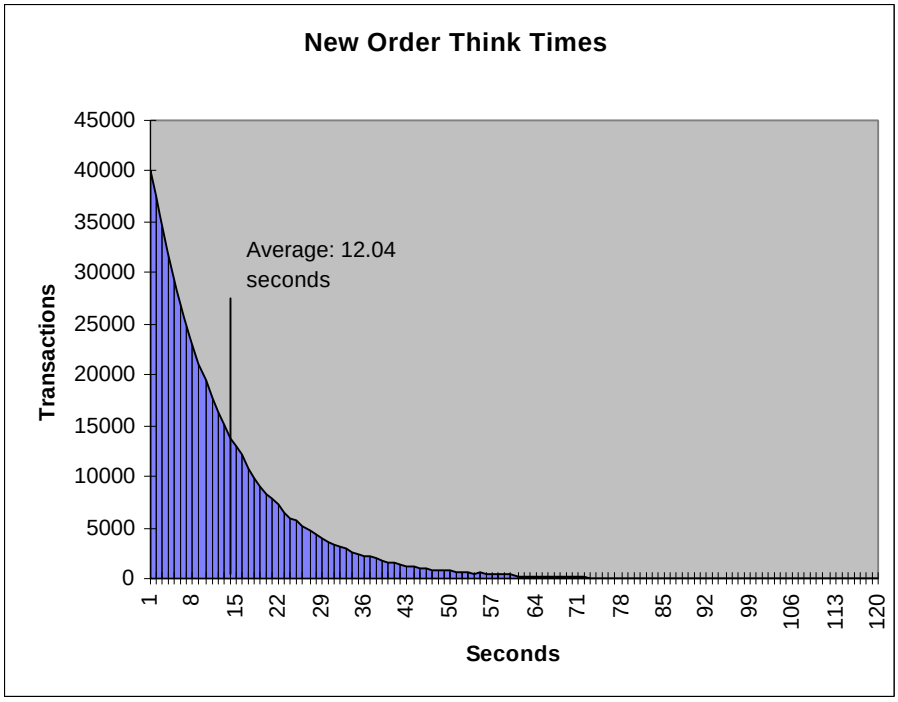


Figure 5.7: Response time versus Throughput

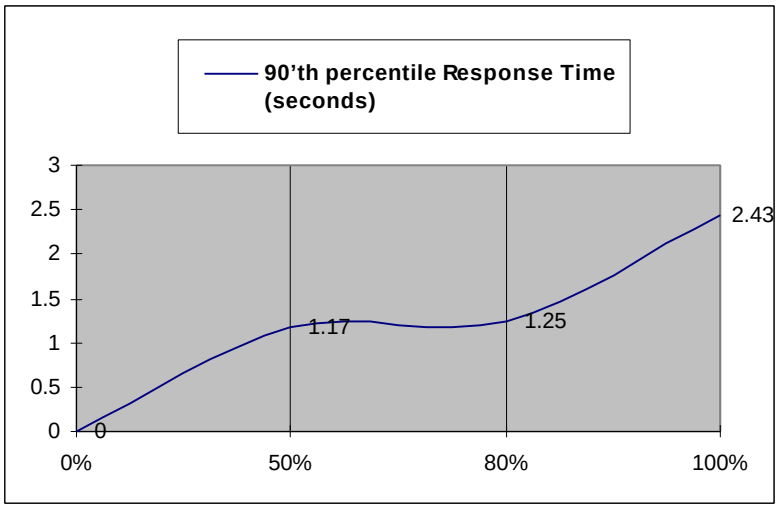
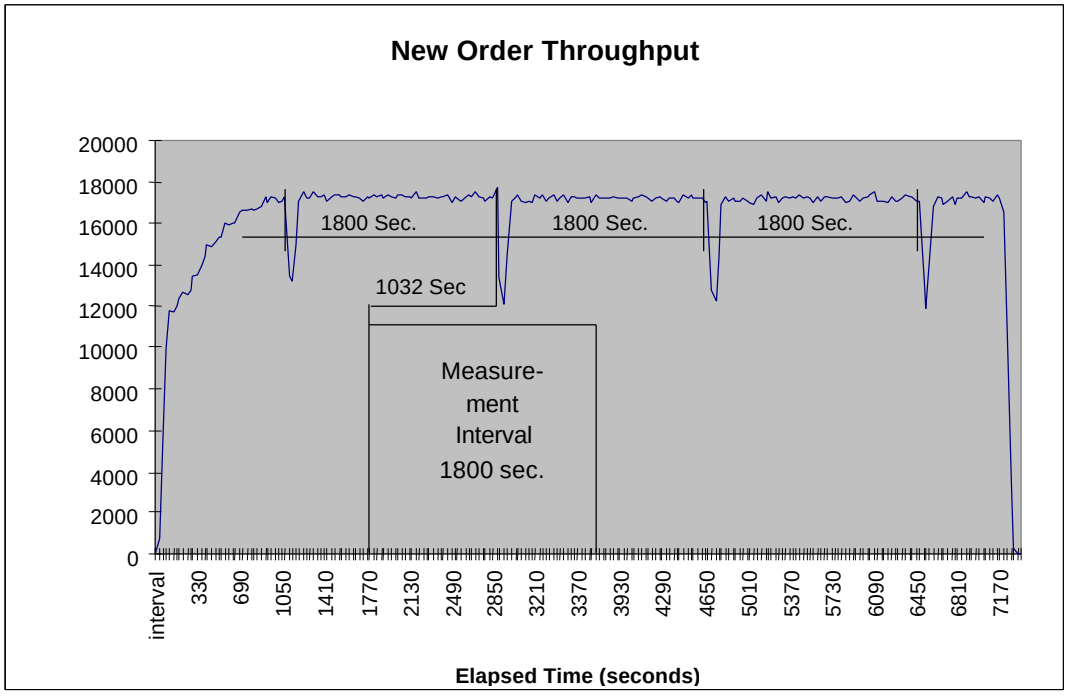


Figure 5.8: New Order Sustained Throughput



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 *rdblog* 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 lrand48() 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 replace 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	$36.24
Available	March 1'st, 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   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];
        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;*/
        double         c_ytd_payment;
        short  c_payment_cnt;
        /*long c_payment_cnt;*/
        char   c_data[501];

        double         h_date;
        long   h_amount;
        char   h_data[25];

        long   no_o_id;

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

        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: dbgprt.h

```
#ifdef SCRTEST

// Prottype of Debug Print Function

extern  "C" void oder_dsp(rte_input_data *,
orderstat_trans *, int, int);
extern  "C" void pay_dsp (rte_input_data *,
payment_trans *, int, int);
extern  "C" void sto_dsp (rte_input_data *,
stocklvl_trans *, int, int, int);
extern  "C" void new_dsp (rte_input_data *,
neworder_trans *, int, int, int);

extern  "C" void dummy_delivery ( delivery_trans * );
extern  "C" void dummy_stocklvl ( stocklvl_trans * );
extern  "C" void dummy_orderstat( orderstat_trans * );
extern  "C" void dummy_payment  ( payment_trans * );
extern  "C" void dummy_neworder ( neworder_trans * );
extern  "C" char *get_datetimestr( char * );
extern  "C" char *get_datestr   ( char * );

#endif
```

File: delpage.h

```
/* ---------------------------------------------------------------------
-
  delpage.h
  data of delivery transaction result screen (HTML
format)
  ---------------------------------------------------------------------
- */

/* Header data */
#define h_del1 "\
<HTML><HEAD><TITLE>TPC-WINDOW
</TITLE></HEAD><BODY>\n\n\
<CENTER>Delivery<br></CENTER>\
<font size=4>\r\n<PRE>"

/* Screen data*/
#define h_del2 "\
Warehouse:     \r\n\
\r\n\
Carrier Number:   \r\n\
\r\n\
Execution Status:                    \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\
"
/* Tailer data */
#define h_del3 "\
</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  delp[] = { 0xb, 0x23, 0x3b }; /* w_id, carrier number,
status */
```

File: dmy.h

```
//
// dmy.h : DLL
//
//                  SCRTEST  #define
//                      DBPRT  #define
//

//
//
//

#ifdef SCRTEST

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

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

        sprintf( buf, "%2d-%2d-%4d %2d:%2d:%2d", tm-
>tm_mday, tm->tm_mon+1,
                tm->tm_year+1900, tm->tm_hour, tm-
>tm_min, tm->tm_sec );

        return buf;
}
```

```
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"
                        "migyamigyamigyamigyamigya" );
        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_i_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);

        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_middl=%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);
        }
        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_middl=%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,
        stocklvl_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;
```

```
    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_id = %s \n", in_data->C_ID);

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

            if( in_data->OL_SUPPLY_W_ID[i] != 0 ){
                fprintf(test_fp,"ol_sup_w_id=%s ",in_data->
OL_SUPPLY_W_ID[i]);
            }

            if( in_data->OL_I_ID[i] != 0 ){
                fprintf (test_fp, "ol_i_id=%s ", in_data->
OL_I_ID[i]);
            }

            if( in_data->OL_QUANTITY[i] != 0 ){
                fprintf (test_fp, "ol_quan=%s\n", in_data->
OL_QUANTITY[i]);
            }
        }

        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);

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

            fprintf (test_fp, "ol_sup_w_id=%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\n", bp-
>ol_quantity[i]);
        }
    }
    else{
        fprintf (test_fp, "----- trans buf area (after) -----
\n\n");

        fprintf (test_fp, "c_last=%s  ", bp->c_last);
        fprintf (test_fp, "c_credit=%s\n", bp->c_credit);
        fprintf (test_fp, "o_id=%d  ", bp->o_id);

        fprintf (test_fp, "o_entry_d=%s\n",bp->o_entry_d);
         // check
        fprintf (test_fp, "c_discnt=%f\n", bp->c_discount *
100.0);

        fprintf (test_fp, "o_ol_cnt=%d  ", bp->o_ol_cnt);

        fprintf (test_fp, "w_tax=%f  ", bp->w_tax * 100.0);
        fprintf (test_fp, "d_tax=%f\n", bp->d_tax * 100.0);

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

          fprintf(test_fp," - - - - - - \no_sup_w_id=%d ",
                                bp->ol_supply_w_id[i]);
            fprintf(test_fp,"o_i_id=%d  ",bp->ol_i_id[i]);
            fprintf(test_fp,"i_name=%s\n",&bp-
>i_name[i][0]);
            fprintf(test_fp,"o_quant=%d ",bp->ol_quantity[i]);
            fprintf(test_fp,"s_quant=%d ",bp->s_quantity[i]);
            fprintf(test_fp,"brand=%c ",  bp->
brand_generic[i]);
            fprintf(test_fp,"i_price=%f ",bp->i_price[i]);
           // check
            fprintf(test_fp,"ol_amnt=%f\n",bp-
>ol_amount[i]);     // check
        }
//      fprintf (test_fp, "status=%s\n", bp->status);
        fprintf (test_fp, "total_a=%f\n", bp->total_amount);
         // check
    }
}

#endif

#ifdef TIMEST
int tsp(int id, char flag, char type){

//      struct  tm times;
    SYSTEMTIME systemTime; // for IIS Version

        GetLocalTime(&systemTime);

        // 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;

        fprintf (TIMES, "ID=%d, FL=%d, T=%c :
%d:%d:%d.%d\n",
                id, flag, type, (int)systemTime.wHour,
                (int)systemTime.wMinute,
                (int)systemTime.wSecond,
                (long)systemTime.wMilliseconds);

        fflush (TIMES);
        return 0; }

#endif
```

File: ex_tpcc_info.h

```
/*=======================================
==================================+
  FILENAME: ex_tpcc_info.h
  This file is used for the function which refers to the
external variable

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

extern  long    olen;
extern  void    *trans_buf;
extern  int     trans_size;
extern  int     svrnum;

/*
extern  int     logincnt;
extern  int     base_cok;
extern  char    NewOrdername[];
extern  char    Paymentname[];
extern  char    OrderStatusname[];
extern  char    Deliveryname[];
extern  char    StockLevelname[];
*/

extern  int     now_cookie;
extern  int     now_w_id;
extern  int     now_d_id;
extern  char    now_ottname[];
extern  char    SOPATH[];

extern  char    s_work[];

#ifdef DBPRT
extern  FILE    *test_fp;
#endif

#include "trans.h"
```

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: carray */
```

File: menupage.h

```
/* ---------------------------------------------------------------------
-
   menupage.h
   ---------------------------------------------------------------------
- */

/* Transaction select screen data */
#define h_menu "\
<HTML><HEAD><TITLE>TPC-
WINDOW</TITLE></HEAD>\r\n\
<BODY><CENTER>Transaction
Menu<BR></CENTER>\r\n\
<PRE>\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\r\n\r\n\r\n</PRE>\
<FORM ACTION=\"%s\" METHOD=\"GET\">\
<INPUT TYPE=\"hidden\" NAME=\"c\" VALUE=%d>\
<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>\r\n"

/* If client can not connect server then use this format */
#define noconnt "\
<HTML><HEAD><TITLE>ERROR: Can't
Connect</TITLE></HEAD><BODY>\r\n\
<P>Sorry. all %d database connections are currently in
use. <br>\
```

```
Please try again later. terminal number is %d.
</P></BODY></HTML>\r\n"

/* If client can not connect server then use this format */
#define conntmax "\
<HTML><HEAD><TITLE>ERROR: Can't
Connect</TITLE></HEAD><BODY>\r\n\
<P>The terminal number you entered isn't valid.<BR>\
It must be an integer in the range 1 to %d.<P>\r\n\
The terminal number which you specified is
%d.</P></BODY></HTML>\r\n"

/* If client can not connect server then use this format */
#define badterm "\
<HTML><HEAD><TITLE>ERROR: Can't
Connect</TITLE></HEAD><BODY>\r\n\
<P>The terminal number you entered isn't valid.<BR>\
This Client process the terminal of %d to %d.<P>\r\n\
The terminal number which you specified is
%d.</P></BODY></HTML>\r\n"

/* If connect client by WWW browser then use this
format */
/* Terminal verification use olny */
#define loginpage "\
<HTML><HEAD><TITLE>Welcome to TPC-C :
%s</TITLE></HEAD><BODY>\r\n\
<P>Please identify your terminal number for this
session.</P>\r\n\
<FORM ACTION=\"%s\" METHOD=\"GET\">\r\n\
<INPUT TYPE=\"hidden\" NAME=\"f\" VALUE=\"l\">\r\n\
Your Terminal Number:<INPUT NAME=\"c\"
SIZE=5><BR><HR>\r\n\
<INPUT TYPE=\"submit\">\r\n\
</FORM></BODY></HTML>\r\n"

/* LOGIN ERROR PAGE */
/* If terminal number not find then use this format */
#define loginerr2 "\
<HTML><HEAD><TITLE>ERROR :Welcome to TPC-
C</TITLE></HEAD><BODY>\r\n\
<P>Please identify your terminal number for this
session.</P>\r\n\
<FORM ACTION=\"%s\" METHOD=\"GET\">\r\n\
<INPUT TYPE=\"hidden\" NAME=\"f\" VALUE=\"l\">\r\n\
Your Terminal Number:<INPUT NAME=\"c\"
SIZE=5><BR><HR>\r\n\
<INPUT TYPE=\"submit\">\r\n\
</FORM></BODY></HTML>\r\n"

/*
#define endpage "\
<HTML><HEAD><TITLE>Welcome to TPC-
C</TITLE></HEAD><BODY>\r\n\
<P>Please identify your Warehouse and District for this
session.</P>\r\n\
<FORM ACTION=\"%s\" METHOD=\"GET\">\r\n\
<INPUT TYPE=\"hidden\" NAME=\"c\" VALUE=%d>\r\n\
<INPUT TYPE=\"hidden\" NAME=\"f\" VALUE=\"l\">\r\n\
Your Warehouse ID: <INPUT NAME=\"W\"
SIZE=4><BR>\r\n\
Your District ID:  <INPUT NAME=\"d\"
SIZE=2><BR><HR>\r\n\
<INPUT TYPE=\"submit\">\r\n\
</FORM></BODY></HTML>\r\n"
*/
```

File: newpage.h

```
/* ---------------------------------------------------------------------
-
  newpage.h
  data of neworder transaction result screen (HTML
form)
  ---------------------------------------------------------------------
- */

/* Header data */
#define h_new1 "\
<HTML><HEAD><TITLE>TPC-
WINDOW</TITLE></HEAD><BODY>\r\n\
<CENTER>New-Order<BR></CENTER>\r\n\
<font size=4>\r\n<PRE>"

/* Screen data*/
#define h_new2 "\
Warehouse:      District:                Date:  - -
:  :  \r\n\
Customer:       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\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
                                        $  .   $   .
\r\n\
Execution Status:                              Total:  $
.  \r\n"

/* Tailer data */
#define h_new3 "\
</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 newp[] = {
0xb, 0x1c, 0x3c,
0x5c, 0x69, 0x84, 0x90,
0xa5, 0xc0, 0xd1, 0xe0,
0x138, 0x140, 0x148, 0x163, 0x169, 0x170, 0x175,
0x17e,
0x5f9, 0x62d
};
```

File: odrpage.h

```
/* ---------------------------------------------------------------------
-
  odrpage.h
  data of OrderStatus transaction result screen (HTML
form)
  ---------------------------------------------------------------------
- */

/* Header data */
#define h_order1 "\
<HTML><HEAD><TITLE>TPC-
WINDOW</TITLE></HEAD>\r\n\
<BODY><CENTER>Order-
Status<BR></CENTER>\r\n\
<font size=4>\r\n<PRE>"

/* Screen data*/
#define h_order2 "\
Warehouse:      District:   \r\n\
Customer:       Name:                              \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\
"
```

```
/* Tailer 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 Linit:  $        .  \r\n\
\r\n\
Cust-Data: "
/*
Cust-Data:                                    \r\n\
                                              \r\n\
                                              \r\n\
                                              \r\n"
*/

/* Tailer 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 <afxisapi.h>

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

#endif //
!defined(AFX_STDAFX_H__13B36D5C_C1F8_11D1_8
326_00A0C906407A__INCLUDED)
```

File: stpage.h

```
/* ---------------------------------------------------------------------
-
   stopage.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\r\n\r\n\r\n"

/* Tailer 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 "tpcciis.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 "odrpage.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 commnd.
#endif

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

#include "dmy.h"            // For debug

static TPINIT *tpinf;
static DWORD  TLSIsTpInitedKey;
static int    ThrTpInit();

//
// 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 ThrTpInit() {

static int num_tpinits=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(TLSIsTpInitedKey)) {

     // 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 ----------
\r\n");
        }

#ifdef DBPRT
                fprintf(fp, "* In ThrTpInit Thread %d * \r\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," > ThrTpInit:%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
```

```
            if ( Success == FALSE ) {
            {
            char ebuf[128];
            sprintf(ebuf,
                "False : ThrTpInit %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 : ThrTpInit %d: Cannot
tpinit after %d tries iRc = %d LastErr = %d\r\n",
                    GetCurrentThreadId(), 10, iRc,
lasterr);
             sprintf(ebuf,
                    "Success : ThrTpInit 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(TLSIsTpInitedKey,&x)) == 0) {  //?
                {
                    FILE *fp;
                    fp =
fopen("c:\\tuxlog\\tpapl.log", "ab");

                    fprintf(fp, " > ThrTpInit %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, "ThrTpInit 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 strct_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_I_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_I_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_I_ID[num - 1] = val;
                                        }
                                        break;
                                }
                                break;

                        case 'Q':
                                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;

                                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;
                        }
                        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 entry 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);
        }

   DBGR(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) {

#ifndef SCRTEST

   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 buf[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 );
}


#ifndef 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_tcctxt[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 getsvrnam ( 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->clent_num; cnt++){
      if ( cookie < tpc_area->clent[cnt][0]){
         break;
      }
   }

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

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

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

      if (num > cookie){
```

```
            break;
        }
        else{
            svnum++;
        }
    }
==========================================
==============================*/
    DBGP(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;

#ifndef 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 abnormaly
                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 = getsvrnam ( 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 */
        DBGR(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 proccesses 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
Aplication Name (View)
#else
        sprintf (TPAPL, "TPCC%d", (int)srv-
>m_tcctxt[user_id].trn_id[0]);
#endif

        if ((rtn = ThrTpInit( )) < 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:

#ifndef SCRTEST

   DBGR(tsp(0));

#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 ) );
```

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

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

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

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

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

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

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

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

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

#else
   dummy_neworder( bp );
#endif

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

   sprintf (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++ ) {
         setNOdata (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 vaild");

            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

   }

#ifndef SCRTEST
   else{

#ifndef Symfo
      if ( bp->newout.terror == IRRECERR ){
         sprintf (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 execuction result data notified RTE is make
by the HTML form */

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

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

   return (0);
}


/*----------------------------------------------------------------------
-

  payment : this function proccesses 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[WORK_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_tcctxt[user_id].trans_b;
#endif

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

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

        if ((rtn = ThrTpInit( )) < 0 ){
       sprintf( S_WORK, "Thread init abort PAY (%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 */
    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_ANOUNT. The
pupose of if is to prosess
       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_tcctxt[user_id].w_id, 0));


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

#ifndef SCRTEST

    DBGR(tsp(0));

#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( payment_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 ( tperrno == TPESVCFAIL ) {
          sprintf( S_WORK, "Oracle failed to process
Payment Transaction.\n"
             "tperrno = %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",
                                tperrno, TPAPL,
                                bp->d_id, bp->c_id, bp->c_last,
                                bp->c_w_id, bp->c_d_id,
                                bp->h_amount );

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

                sprintf( S_WORK, "tpcall failed in Payment:
tperrno = %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",
                        tperrno, 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_tcctxt[user_id].trans_b, FML_DATA, 0, NULL ) );
        bp = &tbuf;

#else

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

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

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

                sprintf( S_WORK, "tpcall failed in Payment:
tperrno = %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",
                        tperrno, 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);

#ifdef 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 ( &buf fer2[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);

#ifdef 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);

 #ifdef Symfo
      dec2str ((S_WORK + payp5[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], "\r\n\r\n\r\n\r\n");
        }
    else{
                alp2str (buffer2, 50, bp->c_data);
                buffer2[50] = 0;
                newlength = checkHTMLform ( &buffer2[0],
&buffer[0]);
                strcpy (&buffer3[0], &buff er[0]);
                strcat (buffer3, "\r\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, "\r\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, "\r\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, "\ r\n");
                                }
                                else {
                                        strcat ( buffer3,
"\r\n\r\n");
                                }
                        }
                        else {
                                strcat ( buffer3, "\r\n\r\n\r\n");
                        }
                }
        }

        strcat (S_WORK, buffer3);
/* ------- The execuction 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 proccesses 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_S];
        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, s izeof(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
Aplication 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 ){
                DBGP(fprintf (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);

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

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

#ifndef SCRTEST

    DBGR(tsp(0));

#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 ( tperrno == TPESVCFAIL ) {
          sprintf( S_WORK, "Oracle failed to process
NewOrder Transaction.\n"
```

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

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

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

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

               sprintf( S_WORK, "tpcall failed in
OrderStatus: tperrno = %d\n"
                        " svc = '%s' d_id = %d c_id = %d
c_last = '%s'\n",
                        tperrno, 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 );

#ifdef 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]);

#ifdef 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] != 777777777 ){
                        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( strncmp( bp->ol_delivery_d[i], "NOT
DELIVR", 10 ) != 0 ){

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

/* ------- The execuction 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 proccesses 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_S];
        char   TPAPL[12];

        struct  tm times;
   SYSTEMTIME systemTime;

#ifdef 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
Aplication Name (View)
#else
        sprintf (TPAPL, "TPCCd%d", (int)srv-
>m_tcctxt[user_id].trn_id[3] );
#endif

        if ((rtn = ThrTpInit( )) < 0 ){
       sprintf( S_WORK, "Thread init abort DEL(%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;

    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 */

#ifndef SCRTEST

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

    DBGR(tsp(0));

#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( 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 messege */

#ifndef SCRTEST
        char    buf[1024];

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

/*          sprintf ( S_WORK, "tpacall : Retry in Delivery:
tperrno = %d\n"
                    " svc = '%s' carrier = %d\n", tperrno,
                    now_ottname, 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"
             "tperrno = %d svc = '%s' carrier = %d\n",
tperrno,
                                TPAPL, bp->o_carrier_id );

          set_oraerr( 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:
tperrno = %d\n"
                    " svc = '%s' carrier = %d\n", tperrno,
                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)b p-
>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 proccesses 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
Aplication Name (View)
#else
        sprintf (TPAPL, "TPCCs%d", (int)srv-
>m_tcctxt[user_id].trn_id[4] );
#endif

        if ((rtn = ThrTpInit( )) < 0 ){
       sprintf( S_WORK, "Thread init abort STOCK (%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;
   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:

#ifndef SCRTEST

   DBGR(tsp(0));

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

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

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

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

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

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

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

 #endif

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

 #ifndef Symfo
                if ( bp->stoout.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
   }

#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 execuction 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 form
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] == 'I' ){
                /* 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(CTpaplExtension, CHttpServer)
       // TODO:
ON_PARSE_COMMAND()
       //       ON_PARSE_COMMAND_PARAMS()
       //   :

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

////////////////////////////////////////////////////////////
//       CTpaplExtension

CTpaplExtension theExtension;


////////////////////////////////////////////////////////////
// CTpaplExtension
//
// constructor
//

CTpaplExtension::CTpaplExtension() : 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);


#ifndef SCRTEST

        TLSIsTpInitedKey = TlsAlloc ( );
#endif

        /* Initialize Working Area */
        for(user_id = 0; user_id < maxterm; user_id++) {
            m_tcctxt[user_id].w_id = 0;
            m_tcctxt[user_id].d_id = 0;
            m_tcctxt[user_id].trans_b = 0;
        }
        LeaveCriticalSection (&crit);
        srv = this;

}


//
// deconstructor
//
CTpaplExtension::~CTpaplExtension()
{
        int x;

        EnterCriticalSection(&crit);

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

        LeaveCriticalSection(&crit);

        TlsFree(TLSIsTpInitedKey);
}

BOOL
CTpaplExtension::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));
        _tcscpy(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
CTpaplExtension::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        rtcode;

        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:\\tclog\\log%d", cookie);
      test_fp = fopen (path_w, "aw+");
   }
#endif

        // Termimal 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 );

                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);
```

```
                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%s\n", S_WORK,
S_BUF);
                fflush  (test_fp);
                fclose  (test_fp);
        }
#endif

        // For Debag : 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:\\tclog\\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;

}

////////////////////////////////////////////////////
//  Terminit
////////////////////////////////////////////////////
//  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 LOG_ALL

        // 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;

#ifndef SCRTEST
        // Create Tuxedo buffer (Execute tpalloc)
        if ((m_tcctxt[user_id].trans_b =
                (void *)tpalloc (BUF_TYPE, NULL,
trans_size)) == NULL ) {

                // tpalloc abnormal end. create mess age
form.

 #ifdef DBPRT
                fprintf (test_fp, "tpalloc( ) faild (%d) :
user_id=%d \n",
                        tperrno, cookie);
 #endif

                LeaveCriticalSection(&crit);
                return (-1);
        }

#else
        // For Debag : 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( ) faild : 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;
}



////////////////////////////////////////////////////
//  Termfree
////////////////////////////////////////////////////
//  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 LOG_ALL

        int idx = Cookie - Term_Base;

        // Login                        alloc
        if(m_tcctxt[idx].w_id != 0) {

#ifndef SCRTEST
                tpfree ((char *)m_tcctxt[idx].trans_b);
#else
                free (m_tcctxt[idx].trans_b);
#endif

                // Deconstractor            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 = str2int (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 "tpcciis.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_ottname [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_tcctxt[MAXTERM];

        HKEY m_tpccregkey;


        void Termfree (int Cookie);
        void Termfree (char *Cookie);
        int  Terminit (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                        tpapl - Win32 keep
!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
!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\
 "_TMSTHREADS" /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=/l 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 libbuft.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\
 "_TMSTHREADS" /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) $<
<<

MTL=midl.exe
MTL_PROJ=/nologo /D "_DEBUG" /mktyplib203 /o NUL
/win32
RSC=rc.exe
RSC_PROJ=/l 0x411 /fo"$(INTDIR)\tpapl.res" /d
"_DEBUG" /d "_AFXDLL"
BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\tpapl.bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libtux.lib libbuft.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\
 "_TMSTHREADS" /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\
 "_TMSTHREADS" /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\fml.h"\
        "..\..\tuxedo\include\tmenv.h"\
        ".\bench2.h"\
        ".\dbgprt.h"\
        ".\delpage.h"\
        ".\dmy.h"\
        ".\fldtbl.h"\
        ".\menupage.h"\
        ".\newpage.h"\
        ".\odrpage.h"\
        ".\paypage.h"\
        ".\stpage.h"\
        ".\tpapl.h"\
        ".\tpcc_info.h"\
        ".\tpcciis.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\
 "_TMSTHREADS" /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\fml.h"\
        "..\..\tuxedo\include\tme nv.h"\
        ".\bench2.h"\
        ".\dbgprt.h"\
        ".\delpage.h"\
        ".\dmy.h"\
        ".\fldtbl.h"\
        ".\menupage.h"\
        ".\newpage.h"\
        ".\odrpage.h"\
        ".\paypage.h"\
        ".\StdAfx.h"\
        ".\stpage.h"\
        ".\tpapl.h"\
        ".\tpcc_info.h"\
        ".\tpcciis.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\
 "_TMSTHREADS" /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  clent_num;            /* maximam client matchine
number */
    int  max_user;             /* maximam user number */
    int  ott_num;              /* maximam TP applicaton
program of 1 client */
    int  clent[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    svrnum;


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"

#ifdef Symfo
#define INTNULL -32768
#else
#define INTNULL 0
#endif

#ifdef SCRTEST

 #ifdef 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

 #ifdef NOSCR
char    SOPATH[] = "/tpc/tpapl.dll";             /* DEGB
Mode: */
#define MDDATA "DBG"
 #else
```

```
char    SOPATH[] = "/tpc/tpapl.dll";            /* Release
Mode: */
#define MDDATA "REL"
 #endif

#endif


#ifdef DBPRT                    /* for debug */
FILE   *test_fp;
#endif

#endif
```

File: tpcciis.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 10000
#define  MAXTERM    2000
#define  MAXWH      1000            /* Max WareHouse
scale */

/* The maximum value of client matchine which can be
processed */
//#define MAXCLIENT  10

/* The maximum value of TP application program of 1
client matchine
  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 baffer area
*/
#define WORK_S 2400  /* size of the work buffer area
*/

#define TERM_V   0x1   // Terminal Veriffication
#define PRT_ELOG 0x8 // Output Debag 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=\"D\" 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=\"OQ01\" SIZE=2 maxlength=2>\r\n\
  <INPUT NAME=\"OS02\" SIZE=4 maxlength=4>
<INPUT NAME=\"OI02\" SIZE=6 maxlength=6>
<INPUT NAME=\"OQ02\" SIZE=2 maxlength=2>\r\n\
  <INPUT NAME=\"OS03\" SIZE=4 maxlength=4>
<INPUT NAME=\"OI03\" SIZE=6 maxlength=6>
<INPUT NAME=\"OQ03\" SIZE=2 maxlength=2>\r\n\
  <INPUT NAME=\"OS04\" SIZE=4 maxlength=4>
<INPUT NAME=\"OI04\" SIZE=6 maxlength=6>
<INPUT NAME=\"OQ04\" SIZE=2 maxlength=2>\r\n\
  <INPUT NAME=\"OS05\" SIZE=4 maxlength=4>
<INPUT NAME=\"OI05\" SIZE=6 maxlength=6>
<INPUT NAME=\"OQ05\" 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"

#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\
</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\
\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\
                                Credit:\r\n\
                                %%Disc:\r\n\
                                Phone:\r\n\
\r\n\
Amount Paid          $<INPUT NAME=\"H\" 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=\"t\" 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=\"t\" 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 tuxerr "\
<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 TPINIT( ) abnormally then use this format. */
#define tuxierr "\
<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 acoording 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[201];
   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 matchine
number */
    int  max_user;              /* maximam user number */
    int  ott_num;               /* maximam TP applicaton
program of 1 client */
    int  clent[MAXCLIENT][2];    /* client matchine
infomation */
    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;
        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   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];
        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;*/
        double         c_ytd_payment;
        short  c_payment_cnt;
        /*long c_payment_cnt;*/
        char   c_data[501];

        double         h_date;
        long   h_amount;
        char   h_data[25];

        long   no_o_id;

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

        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: carray */
```

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;
short    ol_amount12_ind;
short    ol_amount13_ind;
short    ol_amount14_ind;
short    ol_amount15_ind;
char     ol_delivery_d1[14];
char     ol_delivery_d2[14];
char     ol_delivery_d3[14];
char     ol_delivery_d4[14];
char     ol_delivery_d5[14];
char     ol_delivery_d6[14];
char     ol_delivery_d7[14];
char     ol_delivery_d8[14];
char     ol_delivery_d9[14];
char     ol_delivery_d10[14];
char     ol_delivery_d11[14];
char     ol_delivery_d12[14];
char     ol_delivery_d13[14];
char     ol_delivery_d14[14];
char     ol_delivery_d15[14];
short    ol_delivery_d1_ind;
short    ol_delivery_d2_ind;
short    ol_delivery_d3_ind;
short    ol_delivery_d4_ind;
short    ol_delivery_d5_ind;
short    ol_delivery_d6_ind;
short    ol_delivery_d7_ind;
short    ol_delivery_d8_ind;
short    ol_delivery_d9_ind;
short    ol_delivery_d10_ind;
short    ol_delivery_d11_ind;
short    ol_delivery_d12_ind;
short    ol_delivery_d13_ind;
short    ol_delivery_d14_ind;
short    ol_delivery_d15_ind;
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;
short    s_quantity1_ind;
short    s_quantity2_ind;
short    s_quantity3_ind;
short    s_quantity4_ind;
short    s_quantity5_ind;
short    s_quantity6_ind;
short    s_quantity7_ind;
short    s_quantity8_ind;
short    s_quantity9_ind;
short    s_quantity10_ind;
short    s_quantity11_ind;
short    s_quantity12_ind;
short    s_quantity13_ind;
short    s_quantity14_ind;
short    s_quantity15_ind;
char     s_dist1[25];
char     s_dist2[25];
char     s_dist3[25];
char     s_dist4[25];
char     s_dist5[25];
char     s_dist6[25];
char     s_dist7[25];
char     s_dist8[25];
char     s_dist9[25];
char     s_dist10[25];
char     s_dist11[25];
char     s_dist12[25];
char     s_dist13[25];
char     s_dist14[25];
char     s_dist15[25];
short    s_dist1_ind;
short    s_dist2_ind;
short    s_dist3_ind;
short    s_dist4_ind;
short    s_dist5_ind;
short    s_dist6_ind;
short    s_dist7_ind;
short    s_dist8_ind;
short    s_dist9_ind;
short    s_dist10_ind;
short    s_dist11_ind;
short    s_dist12_ind;
short    s_dist13_ind;
short    s_dist14_ind;
short    s_dist15_ind;
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;
short    i_priceh1_ind;
short    i_priceh2_ind;
short    i_priceh3_ind;
short    i_priceh4_ind;
short    i_priceh5_ind;
short    i_priceh6_ind;
short    i_priceh7_ind;
short    i_priceh8_ind;
short    i_priceh9_ind;
short    i_priceh10_ind;
short    i_priceh11_ind;
short    i_priceh12_ind;
short    i_priceh13_ind;
short    i_priceh14_ind;
short    i_priceh15_ind;
char     i_nameh1[25];
char     i_nameh2[25];
char     i_nameh3[25];
char     i_nameh4[25];
char     i_nameh5[25];
char     i_nameh6[25];
char     i_nameh7[25];
char     i_nameh8[25];
char     i_nameh9[25];
char     i_nameh10[25];
char     i_nameh11[25];
char     i_nameh12[25];
char     i_nameh13[25];
char     i_nameh14[25];
char     i_nameh15[25];
short    i_nameh1_ind;
short    i_nameh2_ind;
short    i_nameh3_ind;
short    i_nameh4_ind;
short    i_nameh5_ind;
short    i_nameh6_ind;
short    i_nameh7_ind;
short    i_nameh8_ind;
short    i_nameh9_ind;
short    i_nameh10_ind;
short    i_nameh11_ind;
short    i_nameh12_ind;
short    i_nameh13_ind;
short    i_nameh14_ind;
short    i_nameh15_ind;
char     i_datah1[51];
char     i_datah2[51];
char     i_datah3[51];
char     i_datah4[51];
char     i_datah5[51];
char     i_datah6[51];
char     i_datah7[51];
char     i_datah8[51];
char     i_datah9[51];
char     i_datah10[51];
char     i_datah11[51];
char     i_datah12[51];
char     i_datah13[51];
char     i_datah14[51];
char     i_datah15[51];
short    i_datah1_ind;
short    i_datah2_ind;
short    i_datah3_ind;
short    i_datah4_ind;
short    i_datah5_ind;
short    i_datah6_ind;
short    i_datah7_ind;
short    i_datah8_ind;
short    i_datah9_ind;
short    i_datah10_ind;
short    i_datah11_ind;
short    i_datah12_ind;
short    i_datah13_ind;
short    i_datah14_ind;
short    i_datah15_ind;
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;
short    result_o_id1_ind;
short    result_o_id2_ind;
short    result_o_id3_ind;
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_supply_w_id[4] ;
    } sqlvar[15]               ;
 } ol_s_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
```

```
/*****************************************************************
********/
/** TPCC.pc     COPYRIGHT FUJITSU LIMITED 1997
**/
/**   :                                                        **/
/**   :                                                        **/
/**   :       SymfoWARE RDB TPC-C Benchmark
**/
/**   :   Apendix B Server Souurce Code
**/
/**   :       1996/09/06
**/
/**             1997/02/24          (New-order,Order-status)
**/
/**             1997/03/13  Revision3.3 : Any Error(Clause
2.3.6)      **/
/**             1998/03/02  NT      K.Sugiyama & M.Suzuki
**/
/**             1998/06.01  FML       M.Suzuki
**/
/**                     1998/07/14                    M.Suzuki
**/
/**                     1998/08/21  1000WH        M.Suzuki
**/
/**                     1998/08/27  stocklevel commit
M.Suzuki         **/
/*****************************************************************
********/

#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 <WTYPES.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_sec=tp.tv_sec;
tv_st_usec=tp.tv_usec;
#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_sec=tp.tv_sec;
tv_st_usec=tp.tv_usec;
#else
#define TIMES Gettimeofday(&tp); tv_st_sec=tp.tv_sec;
tv_st_usec=tp.tv_usec;
#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.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;\
    time_sec=tp.tv_sec-tv_st_sec;\
    if(tp.tv_usec < tv_st_usec) \
    {   time_usec=1000-tv_st_usec+tp.tv_usec;
time_sec=time_sec-1; } \
    else \
    time_usec=tp.tv_usec-tv_st_usec; \
    time_usec=time_sec*1000+time_usec; \
    if(NUM!=999) \
    {   fprintf(time_fd,"SQL_NUM = %d
EACH_TIME= %d\n",NUM,time_usec); \
        all_time(NUM,time_sec,time_usec); \
    } \
    else \
    {   fprintf(time_fd,"ALL_NUM = %d
EACH_TIME= %d.%06d\n", \
                                        NUM,
time_sec, time_usec ); \
    }
#else
#define TIMEE(NUM) \
    Gettimeofday(&tp);\
    time_sec=tp.tv_sec-tv_st_sec;\
    if(tp.tv_usec < tv_st_usec) \
    {   time_usec=1000000-tv_st_usec+tp.tv_usec;
time_sec=time_sec-1; } \
    else \
    time_usec=tp.tv_usec-tv_st_usec; \
    time_usec=time_sec*1000000+time_usec; \
    if(NUM!=999) \
    {   fprintf(time_fd,"SQL_NUM = %d
EACH_TIME= %d\n",NUM,time_usec); \
        all_time(NUM,time_sec,time_usec); \
    } \
    else \
    {   fprintf(time_fd,"ALL_NUM = %d
EACH_TIME= %d.%06d\n", \
                                        NUM,
time_sec, time_usec ); \
    }
#endif
/*      98.03.02        */

/*#define SOLARIS       */      /* 98.02.23  suzuki */

#ifdef UXP_DS  /* 98.02.23     suzuki */
#define Gettimeofday(a) gettimeofday(a)
/*      98.03.02            */
#elif defined NT
//#define Gettimeofday(a)
GetSystemTime(&systemtime);\
//                                      *a.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 );\
//                                      *a.tv_usec =
systemtime.wMilliseconds * 1000;
#define Gettimeofday(a)
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;\
                                        }\
                                        *a.tv_sec =
systemtime.wSecond +
        /*    */\

        (systemtime.wMinute * 60) +
        /*    */\

        ((systemtime.wHour) * 3600) +
                /*    */\

        ((systemtime.wDay - 1) * 3600 * 24);
        /*    */\
                                        *a.tv_sec += (yDay
* 3600 * 24);                                   /*    */\
                                        /*      */\
                                        /*
*/\
                                                yDiff =
systemtime.wYear - 1970;                /*      1970  (
) */\
                                                work_day = (yDiff /
4);\
                                                *a.tv_sec += ((yDiff
* 365) + work_day) * 24 * 3600;\
                                                *a.tv_usec =
systemtime.wMilliseconds;
/*      98.03.02        */
#else
#define Gettimeofday(a) gettimeofday(a,0)
#endif



/* Function Prototype */
extern int  scanstring();

/* add-96.8.23 */
time_t  tttt;
time_t  t_wk;
char    tc_wk[26];
char    tc_s[15]; /* 1997.01.27 */

#ifdef USE_SQL_MODE                     /* 98.02.23
suzuki */
EXEC SQL BEGIN DECLARE SECTION;
short errorpos_ind;
#endif
int tmp_s_i_id;
int tmp_w_id;
int tmp_d_id;

long namecount;

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(){}

#ifdef NT
#define       SQLWAIT_O   Sleep( 1 );
#define       SQLWAIT_N   Sleep( 1 );
#define       SQLWAIT_N_C Sleep( 1 );
#define       SQLWAIT_N_R Sleep( 2 );
#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

#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                */
/*                      (g ettimeofday)                 */
#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 *t_fd = 0;
FILE *time_fd ;

FILE    *delivery_handle = NULL;
FILE    *fp;


/*              98.07.01     */
        static FILE *tpsvrinit_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%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 ) );
#endif
        }
        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;
                        }
                }
            c_id = bpp->c_id;
            h_amount = bpp->h_amount;

            bpp->C_R = Payment();
#ifdef USE_FML                                  /* 98.04.07
lch. */
             Fchg( ( FBFR * )info->data, FML_DATA, 0, (
char * )bpp,
                sizeof( payment_trans ) );
#endif
        }
        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 ) );
#endif
        }
        else if( mix == 4 )
        {
#ifdef USE_FML                                  /* 98.04.07
lch. */
            dbuf = *( ( delivery_trans * )Ffind( ( FBFR *
)info->data,
                FML_DATA, 0, NULL ) );
```

```
        bpd = &dbuf;
#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
Ich. */
                num = getpid();         /* (^^; */
#endif

sprintf(logname,"/tpcrt/tpcc/delivery_log%d",num);
                delivery_handle = fopen(logname,"w+");
                if ( delivery_handle == NULL )
                {       delivery_handle = stderr;
#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,
                    tp_e.tv_sec,
                    tp_e.tv_usec/1000,
                    w_id,
                    o_carrier_id);
#endif

            for(d_id = 0; d_id < 10; d_id++)
            {
               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," errpos:%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("tpreturn-called MIX =%d TPNOREPLY \n",mix);
#endif
  /*tpreturn(TPSUCCESS,0,(char
*)bpd,sizeof(delivery_trans),0|TPNOREPLY);*/
#ifdef USE_FML                          /* 98.04.07
Ich. */
            tpreturn( TPSUCCESS, 0, (char *)NU LL, 0, 0 );
#else
    tpreturn(TPSUCCESS,0,(char
*)bpd,sizeof(delivery_trans),0          );
#endif
    }
    else if( mix == 5 )
    {
#ifdef USE_FML                          /* 98.04.07
Ich. */
            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
Ich. */
         Fchg( ( FBFR * )info->data, FML_DATA, 0, ( char
* )bps,
            sizeof( stocklvl_trans ) );
#endif
    }

       if( mix != 4 )
        {
#ifdef  TRACE
    DP("tpreturn-called mix=%d \n",mix);
#endif
#ifdef USE_FML                          /* 98.04.07
Ich. */
         tpreturn( TPSUCCESS, 0, info->data, 0L, 0 );
#else
         tpreturn(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];
      lnk_ol lnk_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_id[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()                          ;
    strncpy(o_entry_d, tc_s,14)             ;
    bpn->o_entry_d = t_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 )
        {
          strncpy(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]         ;

                 strncpy(bpn->i_name[ol_number],
                        ijp-
>sqlvar[in_ol_number].i_name,24)      ;
                 bpn->i_name[ol_number][24] = '\0'
;

                 strncpy(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) ;
                 strncpy(ol_dist_info,
                        sjp-
>sqlvar[in_ol_number].s_dist,24)      ;
                 ol_dist_info[24] = '\0'
;
                 strncpy(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
;

strncpy(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                ;
         strncpy(bpn->c_last,c_last,17)          ;
         strncpy(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],
"NAMESNAMESNAMESNAME" );
         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, "ABCDEFGHIJKL" );
       strcpy( c_middle, "OE" );
       strcpy( c_last, "BAROUGHTABLE" );
       strcpy( c_phone, "0123456789012345" );
       c_id = rand()%3000 + 1;

       strcpy( c_street_1, "PQRSTUVWXYZABCD" );
       strcpy( c_street_2, "EFGHIJKOLMNOPQR" );
       strcpy( c_city, "STUVWXYZABCDEFG" );
       strcpy( c_state, "RE" );
       sprintf( c_zip, "%04d11111", rand()%10000 );
       strcpy( d_street_1, "PQRSTUVWXYZABCD" );
       strcpy( d_street_2, "EFGHIJKOLMNOPQR" );
       strcpy( d_city, "STUVWXYZABCDEFG" );
       strcpy( d_state, "RE" );
       sprintf( d_zip, "%04d11111", rand()%10000 );

       strcpy( w_street_1, "PQRST UVWXYZABCD" );
       strcpy( w_street_2, "EFGHIJKOLMNOPQR" );
       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, "19980212121212" );
       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 )
  {
    strncpy(bpp-
>c_data,c_datax.sqlvar,c_datax.sqllen);
  }
 else
  {
    bpp->c_data[0] = 0 ;
  }
#else                                   /* 98.03.24 Ich. */
  if ( rand()%10 == 1 ) {
#define _STR50
       "0123456789abcdefghijklmnopqrstuvwxyz!#$&'()=
-~[]:;"
   strcpy( bpp->c_credit, "BC" );
   strcpy( bpp->c_data,
     _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 l;
      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_ODERSTAT(: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                       ,
                :ol_join        INDICATOR :ol_join_ind
                        );
#else
              SQLWAIT_O;
      strcpy(state,"00000");

      c_id = rand()%3000 + 1;           /* 98.03.24
Ich. */
      strcpy( c_first, "ABCDEFGHIJKL" );
      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 Ich. */
     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,"777777777",9) != 0)
       {
         bpo->ol_delivery_d[ol_number]
                = c_ymdhms(oljp-
>sqlvar[ol_number].ol_delivery_d);
       }
      else
       {
         bpo->ol_delivery_d[ol_number] = 777777777
;
       }
     }
#else                                           /* 98.03.24 Ich. */
     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.sqllen = 0                 ;
          rjp = (result_join_str *)&result_join    ;
          s_ymdhms()                             ;
          strncpy(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 )
         {
          strncpy(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 )
         {
          strncpy(SQLSTATE,state,5) ;
          SQLSTATE[5] = 0           ;
          if ( memcmp(state,"02000",5) == 0 )
           {
            goto not_found;
           }
          else
           {
            goto sqlerr;
           }
         }
#else
```

```
/* (1) DISTRICT   teble 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  teble select */
/* (3) STOCK      teble 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);
}

#ifndef       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 : configration 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
        PROTCOL = telnet,80
#WAREHOUSE SCALE
        VAL     = U1I = 1422
#RAMP-UP TIME
        VAL     = U2I = 0
#MEASUERMENT TIME
        VAL     = U3I = 7200
#RAMP-DOWN TIME
        VAL     = U4I = 0
#NEW THINKTIME (msec)
        VAL     = U5I = 12040
#PAY THINKTIME (msec)
        VAL     = U6I = 12040
#
        VAL     = U7I = 0
        VAL     = U8I = 0
        VAL     = U9I = 0
#
#ORD THINKTIME (msec)
        VAL     = U10I = 10190
#DEL THINKTIME (msec)
        VAL     = U11I = 5040
#STK THINKTIME (msec)
        VAL     = U12I = 5040
#NURAND CONSTANT c_id
        VAL     = U13I = 777
#NURAND CONSTANT c_last
        VAL     = U14I = 111
#NURAND CONSTANT ol_i_id
        VAL     = U15I = 3562
#MSG  OFF:0, Each Term:1, Field:2
        VAL     = U16I= 0
#NEW KEYING-TIME (msec)
        VAL     = U17I = 18100
#PAY KEYING-TIME (msec)
        VAL     = U18I = 3050
#ORD KEYING-TIME (msec)
        VAL     = U19I = 2050
#DEL KEYING-TIME (msec)
        VAL     = U20I = 2050
#STK KEYING-TIME (msec)
        VAL     = U21I = 2050
ENDGROUP
```

Appendix D: System Tunables

File: Client.reg

```
REGEDIT4

[HKEY_LOCAL_MACHINE\SOFTWARE\Fujitsu\TPC-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\CurrentControlSet\Services\InetInfo]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Parameters]
"BandwidthLevel"=dword:ffffffff
"ListenBackLog"=dword:00000019
"TreadTimeout"=dword:00000100

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Parameters\Filter]
"FilterType"=dword:00000000
"NumGrantSites"=dword:00000000
"NumDenySites"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Parameters\MimeMap]
"text/html,htm,,h"=""
"image/gif,gif,,g"=""
"image/jpeg,jpg,,:"=""
"text/plain,txt,,0"=""
"text/html,html,,h"=""
"image/jpeg,jpeg,,:"=""
"image/jpeg,jpe,,:"=""
"image/bmp,bmp,,:"=""
"application/octet-stream,*,,5"=""
"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/winhlp,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-msclip,clp,,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-msterminal,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,aif,,<"=""
"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\CurrentControlSet\Services\InetInfo\Performance]
"Library"="infoctrs.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\CurrentControlSet\Services\W3SVC]
"Type"=dword:00000020
"Start"=dword:00000002
"ErrorControl"=dword:00000000
"ImagePath"=hex(2):43,3a,5c,57,49,4e,4e,54,5c,53,79,73,74,65,6d,33,32,5c,69,6e,\

65,74,73,72,76,5c,69,6e,65,74,69,6e,66,6f,2e,65,78,65,00
"DisplayName"="World Wide Web Publishing Service"
"DependOnService"=hex(7):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\CurrentControlSet\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,52,6f,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:ffffffff
"ServerSideIncludesEnabled"=dword:00000001
"ServerSideIncludesExtension"=".stm"

"DebugFlags"=dword:00000008
"ScriptTimeout"=dword:00000384
"ConnectionTimeOut"=dword:00001f40
"InstallPath"="C:\\WINNT\\System32\\inetsrv"
"SecurePort"=dword:000001bb
"Filter
DLLs"="C:\\WINNT\\System32\\inetsrv\\sspifilt.dll"
"AccessDeniedMessage"="Error : Access was
denied."
"NTAuthenticationProviders"="NTLM"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC\Parameters\Script Map]
".idc"="C:\\WINNT\\System32\\inetsrv\\httpodbc.dll
"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentContr
olSet\Services\W3SVC\Parameters\Virtual Roots]
"/,"="C:\\InetPub\\wwwroot,,1"
"/tpcA,"="C:\\client\\tpaplFML\\nsnp,,5"
"/tpcR,"="C:\\client\\tpaplFML\\Release,,5"
"/tpc,"="C:\\client\\tpaplFML\\tpaplKeep,,5"
"/tpcT,"="C:\\client\\tpaplFMLKT\\Release,,5"
"/Scripts,"="C:\\InetPub\\scripts,,4"
"/iisadmin,"="C:\\WINNT\\System32\\inetsrv\\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,00,01,02,00,00,00,00,00,05,20,00,00,00,25,02,
00,00,c8,00,14,00,00,00,18,\

00,fd,01,02,00,01,01,00,00,00,00,00,05,12,00,00,
00,25,02,00,00,01,01,00,00,\

00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,
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
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TPCC.CUSTOMER_IX_84DSI C_IX_6
TPCC.CUSTOMER_IX_85DSI C_IX_1
TPCC.CUSTOMER_IX_86DSI C_IX_2
TPCC.CUSTOMER_IX_87DSI C_IX_3
TPCC.CUSTOMER_IX_88DSI C_IX_4
TPCC.CUSTOMER_IX_89DSI C_IX_5
TPCC.CUSTOMER_IX_90DSI C_IX_6
TPCC.CUSTOMER_IX_91DSI C_IX_1
TPCC.CUSTOMER_IX_92DSI C_IX_2
TPCC.CUSTOMER_IX_93DSI C_IX_3
TPCC.CUSTOMER_IX_94DSI C_IX_4
TPCC.CUSTOMER_IX_95DSI C_IX_5
TPCC.CUSTOMER_IX_96DSI C_IX_6
TPCC.CUSTOMER_IX_97DSI C_IX_1
TPCC.CUSTOMER_IX_98DSI C_IX_2
TPCC.CUSTOMER_IX_99DSI C_IX_3
TPCC.CUSTOMER_IX_100DSI C_IX_4
TPCC.CUSTOMER_IX_101DSI C_IX_5
TPCC.CUSTOMER_IX_102DSI C_IX_6
TPCC.CUSTOMER_IX_103DSI C_IX_1
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TPCC.CUSTOMER_IX_105DSI C_IX_3
TPCC.CUSTOMER_IX_106DSI C_IX_4
TPCC.CUSTOMER_IX_107DSI C_IX_5
TPCC.CUSTOMER_IX_108DSI C_IX_6
TPCC.CUSTOMER_IX_109DSI C_IX_1
TPCC.CUSTOMER_IX_110DSI C_IX_2
TPCC.CUSTOMER_IX_111DSI C_IX_3
TPCC.CUSTOMER_IX_112DSI C_IX_4
TPCC.CUSTOMER_IX_113DSI C_IX_5
TPCC.CUSTOMER_IX_114DSI C_IX_6
TPCC.CUSTOMER_IX_115DSI C_IX_1
TPCC.CUSTOMER_IX_116DSI C_IX_2
TPCC.CUSTOMER_IX_117DSI C_IX_3
TPCC.CUSTOMER_IX_118DSI C_IX_4
TPCC.CUSTOMER_IX_119DSI C_IX_5
TPCC.CUSTOMER_IX_120DSI C_IX_6
TPCC.CUSTOMER_IX_121DSI C_IX_1
TPCC.CUSTOMER_IX_122DSI C_IX_2
TPCC.CUSTOMER_IX_123DSI C_IX_3
TPCC.CUSTOMER_IX_124DSI C_IX_4
TPCC.CUSTOMER_IX_125DSI C_IX_5
TPCC.CUSTOMER_IX_126DSI C_IX_6
TPCC.CUSTOMER_IX_127DSI C_IX_1
TPCC.CUSTOMER_IX_128DSI C_IX_2
TPCC.CUSTOMER_IX_129DSI C_IX_3
TPCC.CUSTOMER_IX_130DSI C_IX_4
TPCC.CUSTOMER_IX_131DSI C_IX_5
TPCC.CUSTOMER_IX_132DSI C_IX_6
TPCC.CUSTOMER_IX_133DSI C_IX_1
TPCC.CUSTOMER_IX_134DSI C_IX_2
TPCC.CUSTOMER_IX_135DSI C_IX_3
TPCC.CUSTOMER_IX_136DSI C_IX_4
TPCC.CUSTOMER_IX_137DSI C_IX_5
TPCC.CUSTOMER_IX_138DSI C_IX_6
TPCC.CUSTOMER_IX_139DSI C_IX_1
TPCC.CUSTOMER_IX_140DSI C_IX_2
TPCC.CUSTOMER_IX_141DSI C_IX_3
TPCC.CUSTOMER_IX_142DSI C_IX_4
TPCC.CUSTOMER_IX_143DSI C_IX_5
TPCC.CUSTOMER_IX_144DSI C_IX_6
TPCC.CUSTOMER_IX_145DSI C_IX_1
TPCC.CUSTOMER_IX_146DSI C_IX_2
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TPCC.CUSTOMER_IX_148DSI C_IX_4
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TPCC.CUSTOMER_IX_152DSI C_IX_2
TPCC.CUSTOMER_IX_153DSI C_IX_3
TPCC.CUSTOMER_IX_154DSI C_IX_4
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TPCC.CUSTOMER_IX_156DSI C_IX_6
TPCC.CUSTOMER_IX_157DSI C_IX_1
TPCC.CUSTOMER_IX_158DSI C_IX_2
#TPCC.CUSTOMER_IX_159DSI C_IX_3
#TPCC.CUSTOMER_IX_160DSI C_IX_4
#TPCC.CUSTOMER_IX_161DSI C_IX_5
#TPCC.CUSTOMER_IX_162DSI C_IX_6

ORDERS_DSI buffer
TPCC.ORDERS_1_DSI O_1
TPCC.ORDERS_2_DSI O_2
TPCC.ORDERS_3_DSI O_3
TPCC.ORDERS_4_DSI O_4
TPCC.ORDERS_5_DSI O_5
TPCC.ORDERS_6_DSI O_6
TPCC.ORDERS_7_DSI O_1
TPCC.ORDERS_8_DSI O_2
TPCC.ORDERS_9_DSI O_3
TPCC.ORDERS_10_DSI O_4
TPCC.ORDERS_11_DSI O_5
TPCC.ORDERS_12_DSI O_6
TPCC.ORDERS_13_DSI O_1
TPCC.ORDERS_14_DSI O_2
TPCC.ORDERS_15_DSI O_3
TPCC.ORDERS_16_DSI O_4
TPCC.ORDERS_17_DSI O_5
TPCC.ORDERS_18_DSI O_6
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TPCC.ORDERS_25_DSI O_1
TPCC.ORDERS_26_DSI O_2
TPCC.ORDERS_27_DSI O_3
TPCC.ORDERS_28_DSI O_4
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TPCC.ORDERS_30_DSI O_6
TPCC.ORDERS_31_DSI O_1
TPCC.ORDERS_32_DSI O_2
TPCC.ORDERS_33_DSI O_3
TPCC.ORDERS_34_DSI O_4
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TPCC.ORDERS_36_DSI O_6
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TPCC.ORDERS_42_DSI O_6
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TPCC.ORDERS_46_DSI O_4
TPCC.ORDERS_47_DSI O_5
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TPCC.ORDERS_98_DSI O_2
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TPCC.ORDERS_100_DSI O_4
TPCC.ORDERS_101_DSI O_5
TPCC.ORDERS_102_DSI O_6
TPCC.ORDERS_103_DSI O_1
TPCC.ORDERS_104_DSI O_2
TPCC.ORDERS_105_DSI O_3
TPCC.ORDERS_106_DSI O_4
TPCC.ORDERS_107_DSI O_5
TPCC.ORDERS_108_DSI O_6
TPCC.ORDERS_109_DSI O_1
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TPCC.ORDERS_113_DSI O_5
TPCC.ORDERS_114_DSI O_6
TPCC.ORDERS_115_DSI O_1
TPCC.ORDERS_116_DSI O_2
TPCC.ORDERS_117_DSI O_3
TPCC.ORDERS_118_DSI O_4
TPCC.ORDERS_119_DSI O_5
TPCC.ORDERS_120_DSI O_6
TPCC.ORDERS_121_DSI O_1
TPCC.ORDERS_122_DSI O_2
TPCC.ORDERS_123_DSI O_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
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
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TPCC.ORDERS_IX_66_DSI   O_IX_6
TPCC.ORDERS_IX_67_DSI   O_IX_1
TPCC.ORDERS_IX_68_DSI   O_IX_2
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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
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TPCC.ORDERS_IX_94_DSI   O_IX_4
TPCC.ORDERS_IX_95_DSI   O_IX_5
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TPCC.ORDERS_IX_97_DSI   O_IX_1
TPCC.ORDERS_IX_98_DSI   O_IX_2
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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
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
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


## 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
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TPCC.NEWORDER_75_DSI  NO_3
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TPCC.NEWORDER_82_DSI  NO_4
TPCC.NEWORDER_83_DSI  NO_5
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TPCC.NEWORDER_88_DSI  NO_4
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TPCC.NEWORDER_93_DSI  NO_3
TPCC.NEWORDER_94_DSI  NO_4
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TPCC.NEWORDER_96_DSI  NO_6
TPCC.NEWORDER_97_DSI  NO_1
TPCC.NEWORDER_98_DSI  NO_2
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TPCC.NEWORDER_100_DSI NO_4
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TPCC.NEWORDER_133_DSI NO_1
TPCC.NEWORDER_134_DSI NO_2
TPCC.NEWORDER_135_DSI NO_3
TPCC.NEWORDER_136_DSI NO_4
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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
TPCC.NEWORDER_IX_48DSI      NO_IX_6
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
TPCC.NEWORDER_IX_56DSI      NO_IX_2
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
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TPCC.NEWORDER_IX_79DSI NO_IX_1
TPCC.NEWORDER_IX_80DSI NO_IX_2
TPCC.NEWORDER_IX_81DSI NO_IX_3
TPCC.NEWORDER_IX_82DSI NO_IX_4
TPCC.NEWORDER_IX_83DSI NO_IX_5
TPCC.NEWORDER_IX_84DSI NO_IX_6
TPCC.NEWORDER_IX_85DSI NO_IX_1
TPCC.NEWORDER_IX_86DSI NO_IX_2
TPCC.NEWORDER_IX_87DSI NO_IX_3
TPCC.NEWORDER_IX_88DSI NO_IX_4
TPCC.NEWORDER_IX_89DSI NO_IX_5
TPCC.NEWORDER_IX_90DSI NO_IX_6
TPCC.NEWORDER_IX_91DSI NO_IX_1
TPCC.NEWORDER_IX_92DSI NO_IX_2
TPCC.NEWORDER_IX_93DSI NO_IX_3
TPCC.NEWORDER_IX_94DSI NO_IX_4
TPCC.NEWORDER_IX_95DSI NO_IX_5
TPCC.NEWORDER_IX_96DSI NO_IX_6
TPCC.NEWORDER_IX_97DSI NO_IX_1
TPCC.NEWORDER_IX_98DSI NO_IX_2
TPCC.NEWORDER_IX_99DSI NO_IX_3
TPCC.NEWORDER_IX_100DSI NO_IX_4
TPCC.NEWORDER_IX_101DSI NO_IX_5
TPCC.NEWORDER_IX_102DSI NO_IX_6
TPCC.NEWORDER_IX_103DSI NO_IX_1
TPCC.NEWORDER_IX_104DSI NO_IX_2
TPCC.NEWORDER_IX_105DSI NO_IX_3
TPCC.NEWORDER_IX_106DSI NO_IX_4
TPCC.NEWORDER_IX_107DSI NO_IX_5
TPCC.NEWORDER_IX_108DSI NO_IX_6
TPCC.NEWORDER_IX_109DSI NO_IX_1
TPCC.NEWORDER_IX_110DSI NO_IX_2
TPCC.NEWORDER_IX_111DSI NO_IX_3
TPCC.NEWORDER_IX_112DSI NO_IX_4
TPCC.NEWORDER_IX_113DSI NO_IX_5
TPCC.NEWORDER_IX_114DSI NO_IX_6
TPCC.NEWORDER_IX_115DSI NO_IX_1
TPCC.NEWORDER_IX_116DSI NO_IX_2
TPCC.NEWORDER_IX_117DSI NO_IX_3
TPCC.NEWORDER_IX_118DSI NO_IX_4
TPCC.NEWORDER_IX_119DSI NO_IX_5
TPCC.NEWORDER_IX_120DSI NO_IX_6
TPCC.NEWORDER_IX_121DSI NO_IX_1
TPCC.NEWORDER_IX_122DSI NO_IX_2
TPCC.NEWORDER_IX_123DSI NO_IX_3
TPCC.NEWORDER_IX_124DSI NO_IX_4
TPCC.NEWORDER_IX_125DSI NO_IX_5
TPCC.NEWORDER_IX_126DSI NO_IX_6
TPCC.NEWORDER_IX_127DSI NO_IX_1
TPCC.NEWORDER_IX_128DSI NO_IX_2
TPCC.NEWORDER_IX_129DSI NO_IX_3
TPCC.NEWORDER_IX_130DSI NO_IX_4
TPCC.NEWORDER_IX_131DSI NO_IX_5
TPCC.NEWORDER_IX_132DSI NO_IX_6
TPCC.NEWORDER_IX_133DSI NO_IX_1
TPCC.NEWORDER_IX_134DSI NO_IX_2
TPCC.NEWORDER_IX_135DSI NO_IX_3
TPCC.NEWORDER_IX_136DSI NO_IX_4
TPCC.NEWORDER_IX_137DSI NO_IX_5
TPCC.NEWORDER_IX_138DSI NO_IX_6
TPCC.NEWORDER_IX_139DSI NO_IX_1
TPCC.NEWORDER_IX_140DSI NO_IX_2
TPCC.NEWORDER_IX_141DSI NO_IX_3
TPCC.NEWORDER_IX_142DSI NO_IX_4
TPCC.NEWORDER_IX_143DSI NO_IX_5
TPCC.NEWORDER_IX_144DSI NO_IX_6
TPCC.NEWORDER_IX_145DSI NO_IX_1
TPCC.NEWORDER_IX_146DSI NO_IX_2
TPCC.NEWORDER_IX_147DSI NO_IX_3
TPCC.NEWORDER_IX_148DSI NO_IX_4
TPCC.NEWORDER_IX_149DSI NO_IX_5
TPCC.NEWORDER_IX_150DSI NO_IX_6
TPCC.NEWORDER_IX_151DSI NO_IX_1
TPCC.NEWORDER_IX_152DSI NO_IX_2
TPCC.NEWORDER_IX_153DSI NO_IX_3
TPCC.NEWORDER_IX_154DSI NO_IX_4
TPCC.NEWORDER_IX_155DSI NO_IX_5
TPCC.NEWORDER_IX_156DSI NO_IX_6
TPCC.NEWORDER_IX_157DSI NO_IX_1
TPCC.NEWORDER_IX_158DSI NO_IX_2
#TPCC.NEWORDER_IX_159DSI NO_IX_3
#TPCC.NEWORDER_IX_160DSI NO_IX_4
#TPCC.NEWORDER_IX_161DSI NO_IX_5
#TPCC.NEWORDER_IX_162DSI NO_IX_6

HISTORY_DSI buffer
TPCC.HISTORY_1_DSI H_1
TPCC.HISTORY_2_DSI H_2
TPCC.HISTORY_3_DSI H_3
TPCC.HISTORY_4_DSI H_4
TPCC.HISTORY_5_DSI H_5
TPCC.HISTORY_6_DSI H_6
TPCC.HISTORY_7_DSI H_1
TPCC.HISTORY_8_DSI H_2
TPCC.HISTORY_9_DSI H_3
TPCC.HISTORY_10_DSI H_4
TPCC.HISTORY_11_DSI H_5
TPCC.HISTORY_12_DSI H_6
TPCC.HISTORY_13_DSI H_1
TPCC.HISTORY_14_DSI H_2
TPCC.HISTORY_15_DSI H_3
TPCC.HISTORY_16_DSI H_4
TPCC.HISTORY_17_DSI H_5
TPCC.HISTORY_18_DSI H_6
TPCC.HISTORY_19_DSI H_1
TPCC.HISTORY_20_DSI H_2
TPCC.HISTORY_21_DSI H_3
TPCC.HISTORY_22_DSI H_4
TPCC.HISTORY_23_DSI H_5
TPCC.HISTORY_24_DSI H_6
TPCC.HISTORY_25_DSI H_1
TPCC.HISTORY_26_DSI H_2
TPCC.HISTORY_27_DSI H_3
TPCC.HISTORY_28_DSI H_4
TPCC.HISTORY_29_DSI H_5
TPCC.HISTORY_30_DSI H_6
TPCC.HISTORY_31_DSI H_1
TPCC.HISTORY_32_DSI H_2
TPCC.HISTORY_33_DSI H_3
TPCC.HISTORY_34_DSI H_4
TPCC.HISTORY_35_DSI H_5
TPCC.HISTORY_36_DSI H_6
TPCC.HISTORY_37_DSI H_1
TPCC.HISTORY_38_DSI H_2
TPCC.HISTORY_39_DSI H_3
TPCC.HISTORY_40_DSI H_4
TPCC.HISTORY_41_DSI H_5
TPCC.HISTORY_42_DSI H_6
TPCC.HISTORY_43_DSI H_1
TPCC.HISTORY_44_DSI H_2
TPCC.HISTORY_45_DSI H_3
TPCC.HISTORY_46_DSI H_4
TPCC.HISTORY_47_DSI H_5
TPCC.HISTORY_48_DSI H_6
TPCC.HISTORY_49_DSI H_1
TPCC.HISTORY_50_DSI H_2
TPCC.HISTORY_51_DSI H_3
TPCC.HISTORY_52_DSI H_4
TPCC.HISTORY_53_DSI H_5
TPCC.HISTORY_54_DSI H_6
TPCC.HISTORY_55_DSI H_1
TPCC.HISTORY_56_DSI H_2
TPCC.HISTORY_57_DSI H_3
TPCC.HISTORY_58_DSI H_4
TPCC.HISTORY_59_DSI H_5
TPCC.HISTORY_60_DSI H_6
TPCC.HISTORY_61_DSI H_1
TPCC.HISTORY_62_DSI H_2
TPCC.HISTORY_63_DSI H_3
TPCC.HISTORY_64_DSI H_4
TPCC.HISTORY_65_DSI H_5
TPCC.HISTORY_66_DSI H_6
TPCC.HISTORY_67_DSI H_1
TPCC.HISTORY_68_DSI H_2
TPCC.HISTORY_69_DSI H_3
TPCC.HISTORY_70_DSI H_4
TPCC.HISTORY_71_DSI H_5
TPCC.HISTORY_72_DSI H_6
TPCC.HISTORY_73_DSI H_1
TPCC.HISTORY_74_DSI H_2
TPCC.HISTORY_75_DSI H_3
TPCC.HISTORY_76_DSI H_4
TPCC.HISTORY_77_DSI H_5
TPCC.HISTORY_78_DSI H_6
TPCC.HISTORY_79_DSI H_1
TPCC.HISTORY_80_DSI H_2
TPCC.HISTORY_81_DSI H_3
TPCC.HISTORY_82_DSI H_4
TPCC.HISTORY_83_DSI H_5
TPCC.HISTORY_84_DSI H_6
TPCC.HISTORY_85_DSI H_1
TPCC.HISTORY_86_DSI H_2
TPCC.HISTORY_87_DSI H_3
TPCC.HISTORY_88_DSI H_4
TPCC.HISTORY_89_DSI H_5
TPCC.HISTORY_90_DSI H_6
TPCC.HISTORY_91_DSI H_1
TPCC.HISTORY_92_DSI H_2
TPCC.HISTORY_93_DSI H_3
TPCC.HISTORY_94_DSI H_4
TPCC.HISTORY_95_DSI H_5
TPCC.HISTORY_96_DSI H_6
TPCC.HISTORY_97_DSI H_1
TPCC.HISTORY_98_DSI H_2
TPCC.HISTORY_99_DSI H_3
TPCC.HISTORY_100_DSI H_4
TPCC.HISTORY_101_DSI H_5
TPCC.HISTORY_102_DSI H_6
TPCC.HISTORY_103_DSI H_1
TPCC.HISTORY_104_DSI H_2
TPCC.HISTORY_105_DSI H_3
TPCC.HISTORY_106_DSI H_4
TPCC.HISTORY_107_DSI H_5
TPCC.HISTORY_108_DSI H_6
TPCC.HISTORY_109_DSI H_1
TPCC.HISTORY_110_DSI H_2
TPCC.HISTORY_111_DSI H_3
TPCC.HISTORY_112_DSI H_4
TPCC.HISTORY_113_DSI H_5
TPCC.HISTORY_114_DSI H_6
TPCC.HISTORY_115_DSI H_1
TPCC.HISTORY_116_DSI H_2
TPCC.HISTORY_117_DSI H_3
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
```

```
set A=1950
set S=1870
set X=2000

rdbcrbf -A %A% -S %S% -x -l 1 -m 5 C_IX_1
8K %X%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 C_IX_2
8K %X%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 C_IX_3
8K %X%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 C_IX_4
8K %X%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 C_IX_5
8K %X%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 C_IX_6
8K %X%  >> crbuf.tmp.log 2>&1


@rem 980610
set A=1950
set S=1900
set X=2000
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_1
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_2
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_3
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_4
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_5
8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5 NO_6
8K %X% >> crbuf.tmp.log 2>&1


@rem for 1458WH
set A=1850
set S=1750
set X=2000
rdbcrbf -A %A% -S %S% -x -l 2 -m 3    C_1
        8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 2 -m 3    C_2
        8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 2 -m 3    C_3
        8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 2 -m 3    C_4
        8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 2 -m 3    C_5
        8K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 2 -m 3    C_6
        8K %X% >> crbuf.tmp.log 2>&1


@rem for 1458WH
set A=3920
set S=3860
set X=4000
rdbcrbf -A %A% -S %S% -x -l 1 -m 5       O_IX_1
         4K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5       O_IX_2
         4K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5       O_IX_3
         4K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5       O_IX_4
         4K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5       O_IX_5
         4K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 5       O_IX_6
         4K %X% >> crbuf.tmp.log 2>&1


@rem for 1458WH
set A=940
set S=890
set X=1000
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 O_1  8K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 O_2  8K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 O_3  8K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 O_4  8K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 O_5  8K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 O_6  8K
%X% >> crbuf.tmp.log 2>&1


@rem for 1458WH
set A2=81
set S2=81
set X2=81
rdbcrbf -A %A2%  -S %S2%  -x -l 1 -m
2147483646 O_IX_1      32K %X2%  >>
crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S %S2%  -x -l 1 -m
2147483646 O_IX_2      32K %X2%  >>
crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S %S2%  -x -l 1 -m
2147483646 O_IX_3      32K %X2%  >>
crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S %S2%  -x -l 1 -m
2147483646 O_IX_4      32K %X2%  >>
crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S %S2%  -x -l 1 -m
2147483646 O_IX_5      32K %X2%  >>
crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S %S2%  -x -l 1 -m
2147483646 O_IX_6      32K %X2%  >>
crbuf.tmp.log 2>&1


@rem 980725
set A2=27
set S2=27
set X2=27
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
NO_IX_1     32K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
NO_IX_2     32K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
NO_IX_3     32K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
NO_IX_4     32K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
NO_IX_5     32K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
NO_IX_6     32K  %X2%  >> crbuf.tmp.log 2>&1


@rem for 1458WH
set A2=27
set S2=27
set X2=27
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
C_IX_1      32K %X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
C_IX_2      32K %X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
C_IX_3      32K %X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
C_IX_4      32K %X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
C_IX_5      32K %X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x -l 1 -m 2147483646
C_IX_6      32K %X2% >> crbuf.tmp.log 2>&1


@rem for 1458WH
set A=230
set S=220
set X=240
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 H_1   4K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 H_2   4K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 H_3   4K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 H_4   4K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 H_5   4K
%X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A%  -S %S%  -x -l 1 -m 5 H_6   4K
%X% >> crbuf.tmp.log 2>&1


@rem for 1458WH
set A2=75
set S2=65
set X2=80
rdbcrbf -A %A2%  -S  %S2% -x -l 1 -m 5 OL_1  8K
%X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S  %S2% -x -l 1 -m 5 OL_2  8K
%X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S  %S2% -x -l 1 -m 5 OL_3  8K
%X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S  %S2% -x -l 1 -m 5 OL_4  8K
%X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S  %S2% -x -l 1 -m 5 OL_5  8K
%X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2%  -S  %S2% -x -l 1 -m 5 OL_6  8K
%X2%  >> crbuf.tmp.log 2>&1


rdbcrbf -A 14300 -S 14300 -x -l 1 -m 2147483646
l_1 1K 14300 >> crbuf.tmp.log 2>&1


@rem for 1458WH
set A=2700
set S=2700
set X=2700
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
D_1 1K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
D_2 1K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
D_3 1K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
D_4 1K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
D_5 1K %X% >> crbuf.tmp.log 2>&1
```

```
rdbcrbf -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
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_1 1K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_2 1K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_3 1K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_4 1K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A% -S %S% -x -l 1 -m 2147483646
W_5 1K %X% >> crbuf.tmp.log 2>&1
rdbcrbf -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
rdbcrbf -A %A2% -S %S2% -x    NO_1      1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x    NO_2      1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x    NO_3      1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x    NO_4      1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x    NO_5      1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -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 rdbcrbf -A %A2% -S %S2% -x
S_1    1K  %X2%   >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x              S_1
1K  %X2%   >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x              S_2
1K  %X2%   >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x              S_3
1K  %X2%   >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x              S_4
1K  %X2%   >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x              S_5
1K  %X2%   >> crbuf.tmp.log 2>&1
rdbcrbf -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
rdbcrbf -A %A2% -S %S2% -x    C_1       1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x    C_2       1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x    C_3       1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x    C_4       1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x    C_5       1K
%X2% >> crbuf.tmp.log 2>&1
rdbcrbf -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
rdbcrbf -A %A2% -S %S2% -x              O_1
1K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x              O_2
1K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x              O_3
1K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x              O_4
1K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -A %A2% -S %S2% -x              O_5
1K  %X2%  >> crbuf.tmp.log 2>&1
rdbcrbf -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 = 200000;
                printf("Hint !: %s START_I_ID
END_I_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: 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 = 200000;
		printf("Hint !: %s START_I_ID
END_I_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
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# 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
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# 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\UXPSQLEN
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
RDBEXTMEM=4096
RDBEXTMEMADDR=0x7F9B0000


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
RDBTCPIPCPU=3   # RDBTCP
RDBALFCPU=3
RDBIOCPU=3
# 980827
RDBBUFCPU=3
###################

#RDBMAXRCPIO=15
#980109
RDBMAXRCPIO=20
#RDBMAXDBIO=15
# 980825 RDBMAXDBIO=10 ->
RDBMAXDBIO=13
RDBMAXDBIO=10
#RDBMAXDBIO=13
#RDBMAXRCPIO=100
#RDBMAXDBIO=20
```

```
### KAIO
############################################
###
RDBKAIOD9F=yes       #
RDBKAIOSELFWAIT=yes  #
RDBKAIOCNT=yes       # KAIO ON(yes)/OFF(#)
RDBKAIODSP=yes       #      e   o  -( rdbstop
P)
RDBKCHKSKIPCNT=100   #
#RDBKCHKSKIPCNT=200   #
#---RDBKTAJUUDOSDP=4096   #
RDBKLISTNUMSDP=3120
#---RDBKCATENUMSDP=1024   #
RDBKAIOYLD=0         #(Default:1)
#RDBIOERRDOWN=yes     # KAIO IOERR ->
exit
############################################
############
RDBMCTQSIZE=2048
### CCR-mem (980817) #######
#RDB_SDP_MEM_SIZE_K=16384
############################
```

File: RDBSYSPARM

```
#
# 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\b-
onsrc\sqlrt_cw.env

del /Q c:\rdbptc\tpcc80\tpcc\result\deleted\dele*

cd \rdbptc\tpcc80\ddloza
rdbstart -d

call crbuf.oza_pgsr.bat
rdbconbf -f conbf.oza_pgsr.dat

cd \oza\columnw
getitem.exe

cd \rdbptc\tpcc80\tpcc\b-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.ORDERS_DSO/PEX,TPCC.ORDERS_IX1_DSO/PEX,TPCC.ORDERS_IX2_DSO/PEX,TPCC.ORDERLINE_DSO/PEX,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.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.ORDERS_DSO/EX,TPCC.ORDERS_IX_DSO/EX,
       TPCC.NEWORDER_DSO/EX,TPCC.NEWORDER_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: sqlrt_cw.ENV

```
;
; All Rights Reserved, Copyright(c) FUJITSU 1993, 1994, 1995
; All Rights Reserved, Copyright(c) PFU     1993, 1994, 1995
;
;      :
;
;
;              :            ';'
;              :
;              : 1                              1024
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;      UXPSQLENV
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
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.ORDERS_DSO/PEX,TPCC.ORDERS_IX1_DSO/PEX,TPCC.ORDERS_IX2_DSO/PEX,TPCC.ORDERLINE_DSO/PEX,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.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\fml"
        TUXCONFIG="c:\client\tuxconfig"
        TUXDIR="c:\tuxedo"
        ULOGPFX="c:\tuxlog\numazu"
        ENVFILE="c:\sv-apl\fml\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_fml     SRVGRP=group1 RQADDR=TPCCq1 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group2 RQADDR=TPCCq2 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group3 RQADDR=TPCCq3 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group4 RQADDR=TPCCq4 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group5 RQADDR=TPCCq5 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group6 RQADDR=TPCCq6 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group7 RQADDR=TPCCq7 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group8 RQADDR=TPCCq8 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group9 RQADDR=TPCCq9 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group10 RQADDR=TPCCq10 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group11 RQADDR=TPCCq11 SRVID=1 CLOPT="-s TPCC:TPCC"
tpcc_NT_fml     SRVGRP=group12 RQADDR=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: UXPSQLENV

```
;
; 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:\SFWSV\RDB\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:\SFWSV\RDB\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-1 8

cd ..
cd ..
sleep 60m

  rdbstart

cd ..\tpcc\b-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\L_IX
@rem set LOG_AI=%TESTDIR%\dev\L_AI
@rem set LOG_BI=%BI_D%\dev\L_BI
set LOG_IX=g:\dev\L_IX
set LOG_AI=e:\dev\L_AI
set LOG_BI=f:\dev\L_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.pgsr_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  SP15 ALLOCATE
FILE \\.\PhysicalDrive20 ATTRIBUTE
SPACE(1400M);
--      CREATE DBSPACE  SP16 ALLOCATE
FILE \\.\PhysicalDrive21 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP17 ALLOCATE
FILE \\.\PhysicalDrive22 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP18 ALLOCATE
FILE \\.\PhysicalDrive23 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP19 ALLOCATE
FILE \\.\PhysicalDrive24 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP20 ALLOCATE
FILE \\.\PhysicalDrive25 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP16 ALLOCATE
FILE \\.\PhysicalDrive26 ATTRIBUTE
SPACE(1400M);


-- CARD2
 -- Chn0
        CREATE DBSPACE  SP21 ALLOCATE
FILE \\.\PhysicalDrive27 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP22 ALLOCATE
FILE \\.\PhysicalDrive28 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP23 ALLOCATE
FILE \\.\PhysicalDrive29 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP24 ALLOCATE
FILE \\.\PhysicalDrive30 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP25 ALLOCATE
FILE \\.\PhysicalDrive31 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP26 ALLOCATE
FILE \\.\PhysicalDrive32 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP27 ALLOCATE
FILE \\.\PhysicalDrive33 ATTRIBUTE
SPACE(1400M);
 -- Chn1
        CREATE DBSPACE  SP28 ALLOCATE
FILE \\.\PhysicalDrive34 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP29 ALLOCATE
FILE \\.\PhysicalDrive35 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP30 ALLOCATE
FILE \\.\PhysicalDrive36 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP31 ALLOCATE
FILE \\.\PhysicalDrive37 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP32 ALLOCATE
FILE \\.\PhysicalDrive38 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP33 ALLOCATE
FILE \\.\PhysicalDrive39 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP34 ALLOCATE
FILE \\.\PhysicalDrive40 ATTRIBUTE
SPACE(1400M);
 -- Chn2
        CREATE DBSPACE  SP35 ALLOCATE
FILE \\.\PhysicalDrive41 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP36 ALLOCATE
FILE \\.\PhysicalDrive42 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP37 ALLOCATE
FILE \\.\PhysicalDrive43 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP38 ALLOCATE
FILE \\.\PhysicalDrive44 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP39 ALLOCATE
FILE \\.\PhysicalDrive45 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP40 ALLOCATE
FILE \\.\PhysicalDrive46 ATTRIBUTE
SPACE(1400M);
--      CREATE DBSPACE      ALLOCATE FILE
\\.\PhysicalDrive47  ATTRIBUTE SPACE(1400M);

-- CARD3
 -- Chn0
--      CREATE DBSPACE  SP41 ALLOCATE
FILE \\.\PhysicalDrive48 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP42 ALLOCATE
FILE \\.\PhysicalDrive49 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP43 ALLOCATE
FILE \\.\PhysicalDrive50 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP44 ALLOCATE
FILE \\.\PhysicalDrive51 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP45 ALLOCATE
FILE \\.\PhysicalDrive52 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP46 ALLOCATE
FILE \\.\PhysicalDrive53 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP47 ALLOCATE
FILE \\.\PhysicalDrive54 ATTRIBUTE
SPACE(1400M);
 -- Chn1
        CREATE DBSPACE  SP48 ALLOCATE
FILE \\.\PhysicalDrive55 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP49 ALLOCATE
FILE \\.\PhysicalDrive56 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP50 ALLOCATE
FILE \\.\PhysicalDrive57 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP51 ALLOCATE
FILE \\.\PhysicalDrive58 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP52 ALLOCATE
FILE \\.\PhysicalDrive59 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP53 ALLOCATE
FILE \\.\PhysicalDrive60 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP54 ALLOCATE
FILE \\.\PhysicalDrive61 ATTRIBUTE
SPACE(1400M);
 -- Chn2
        CREATE DBSPACE  SP55 ALLOCATE
FILE \\.\PhysicalDrive62 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP56 ALLOCATE
FILE \\.\PhysicalDrive63 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP57 ALLOCATE
FILE \\.\PhysicalDrive64 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP58 ALLOCATE
FILE \\.\PhysicalDrive65 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP59 ALLOCATE
FILE \\.\PhysicalDrive66 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP60 ALLOCATE
FILE \\.\PhysicalDrive67 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP41 ALLOCATE
FILE \\.\PhysicalDrive68 ATTRIBUTE
SPACE(1400M);

-- CARD4
 -- Chn0
        CREATE DBSPACE  SP61 ALLOCATE
FILE \\.\PhysicalDrive69 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP62 ALLOCATE
FILE \\.\PhysicalDrive70 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP63 ALLOCATE
FILE \\.\PhysicalDrive71 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP64 ALLOCATE
FILE \\.\PhysicalDrive72 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP65 ALLOCATE
FILE \\.\PhysicalDrive73 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP66 ALLOCATE
FILE \\.\PhysicalDrive74 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP67 ALLOCATE
FILE \\.\PhysicalDrive75 ATTRIBUTE
SPACE(1400M);
 -- Chn1
        CREATE DBSPACE  SP68 ALLOCATE
FILE \\.\PhysicalDrive76 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP69 ALLOCATE
FILE \\.\PhysicalDrive77 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP70 ALLOCATE
FILE \\.\PhysicalDrive78 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP71 ALLOCATE
FILE \\.\PhysicalDrive79 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP72 ALLOCATE
FILE \\.\PhysicalDrive80 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP73 ALLOCATE
FILE \\.\PhysicalDrive81 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP74 ALLOCATE
FILE \\.\PhysicalDrive82 ATTRIBUTE
SPACE(1400M);
 -- Chn2
```

```
        CREATE DBSPACE  SP75  ALLOCATE
FILE \\.\PhysicalDrive83  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP76  ALLOCATE
FILE \\.\PhysicalDrive84  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP77  ALLOCATE
FILE \\.\PhysicalDrive85  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP78  ALLOCATE
FILE \\.\PhysicalDrive86  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP79  ALLOCATE
FILE \\.\PhysicalDrive87  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP80  ALLOCATE
FILE \\.\PhysicalDrive88  ATTRIBUTE
SPACE(1400M);
--      CREATE DBSPACE      ALLOCATE FILE
\\.\PhysicalDrive89  ATTRIBUTE SPACE(1400M);

-- CARD5
  -- Chn0
        CREATE DBSPACE  SP81  ALLOCATE
FILE \\.\PhysicalDrive90  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP82  ALLOCATE
FILE \\.\PhysicalDrive91  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP83  ALLOCATE
FILE \\.\PhysicalDrive92  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP84  ALLOCATE
FILE \\.\PhysicalDrive93  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP85  ALLOCATE
FILE \\.\PhysicalDrive94  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP86  ALLOCATE
FILE \\.\PhysicalDrive95  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP87  ALLOCATE
FILE \\.\PhysicalDrive96  ATTRIBUTE
SPACE(1400M);
  -- Chn1
        CREATE DBSPACE  SP88  ALLOCATE
FILE \\.\PhysicalDrive97  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP89  ALLOCATE
FILE \\.\PhysicalDrive98  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP90  ALLOCATE
FILE \\.\PhysicalDrive99  ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP91  ALLOCATE
FILE \\.\PhysicalDrive100 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP92  ALLOCATE
FILE \\.\PhysicalDrive101 ATTRIBUTE
SPACE(1400M);
--      CREATE DBSPACE      ALLOCATE FILE
\\.\PhysicalDrive102 ATTRIBUTE SPACE(1400M);
--      CREATE DBSPACE      ALLOCATE FILE
\\.\PhysicalDrive103 ATTRIBUTE SPACE(1400M);
  -- Chn2
        CREATE DBSPACE  SP93  ALLOCATE
FILE \\.\PhysicalDrive104 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP94  ALLOCATE
FILE \\.\PhysicalDrive105 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP95  ALLOCATE
FILE \\.\PhysicalDrive106 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP96  ALLOCATE
FILE \\.\PhysicalDrive107 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP97  ALLOCATE
FILE \\.\PhysicalDrive108 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP98  ALLOCATE
FILE \\.\PhysicalDrive109 ATTRIBUTE
SPACE(1400M);
--      CREATE DBSPACE      ALLOCATE FILE
\\.\PhysicalDrive110 ATTRIBUTE SPACE(1400M);

-- CARD6
  -- Chn0
        CREATE DBSPACE  SP99  ALLOCATE
FILE \\.\PhysicalDrive111 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP100  ALLOCATE
FILE \\.\PhysicalDrive112 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP101  ALLOCATE
FILE \\.\PhysicalDrive113 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP102  ALLOCATE
FILE \\.\PhysicalDrive114 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP103  ALLOCATE
FILE \\.\PhysicalDrive115 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP104  ALLOCATE
FILE \\.\PhysicalDrive116 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP105  ALLOCATE
FILE \\.\PhysicalDrive117 ATTRIBUTE
SPACE(1400M);
  -- Chn1
    CREATE DBSPACE  SP106  ALLOCATE FILE
\\.\PhysicalDrive118 ATTRIBUTE SPACE(1400M);
    CREATE DBSPACE  SP107  ALLOCATE FILE
\\.\PhysicalDrive119 ATTRIBUTE SPACE(1400M);
--  CREATE DBSPACE      ALLOCATE FILE
\\.\PhysicalDrive120 ATTRIBUTE SPACE(1400M);
    CREATE DBSPACE  SP108  ALLOCATE FILE
\\.\PhysicalDrive121 ATTRIBUTE SPACE(1400M);
    CREATE DBSPACE  SP109  ALLOCATE FILE
\\.\PhysicalDrive122 ATTRIBUTE SPACE(1400M);
    CREATE DBSPACE  SP110  ALLOCATE FILE
\\.\PhysicalDrive123 ATTRIBUTE SPACE(1400M);
    CREATE DBSPACE  SP111  ALLOCATE FILE
\\.\PhysicalDrive124 ATTRIBUTE SPACE(1400M);
  -- Chn2
        CREATE DBSPACE  SP112 ALLOCATE
FILE \\.\PhysicalDrive125 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP113 ALLOCATE
FILE \\.\PhysicalDrive126 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP114 ALLOCATE
FILE \\.\PhysicalDrive127 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP115 ALLOCATE
FILE \\.\PhysicalDrive128 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP116 ALLOCATE
FILE \\.\PhysicalDrive129 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP117 ALLOCATE
FILE \\.\PhysicalDrive130 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP118 ALLOCATE
FILE \\.\PhysicalDrive131 ATTRIBUTE
SPACE(1400M);

-- CARD7
  -- Chn0
        CREATE DBSPACE  SP119 ALLOCATE
FILE \\.\PhysicalDrive132 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP120 ALLOCATE
FILE \\.\PhysicalDrive133 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP121 ALLOCATE
FILE \\.\PhysicalDrive134 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP122 ALLOCATE
FILE \\.\PhysicalDrive135 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP123 ALLOCATE
FILE \\.\PhysicalDrive136 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP124 ALLOCATE
FILE \\.\PhysicalDrive137 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP125 ALLOCATE
FILE \\.\PhysicalDrive138 ATTRIBUTE
SPACE(1400M);
  -- Chn1
        CREATE DBSPACE  SP126 ALLOCATE
FILE \\.\PhysicalDrive139 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP127 ALLOCATE
FILE \\.\PhysicalDrive140 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP128 ALLOCATE
FILE \\.\PhysicalDrive141 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP129 ALLOCATE
FILE \\.\PhysicalDrive142 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP130 ALLOCATE
FILE \\.\PhysicalDrive143 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP131 ALLOCATE
FILE \\.\PhysicalDrive144 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP132 ALLOCATE
FILE \\.\PhysicalDrive145 ATTRIBUTE
SPACE(1400M);
  -- Chn2
        CREATE DBSPACE  SP133 ALLOCATE
FILE \\.\PhysicalDrive146 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP134 ALLOCATE
FILE \\.\PhysicalDrive147 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP135 ALLOCATE
FILE \\.\PhysicalDrive148 ATTRIBUTE
SPACE(1400M);
```

```
        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 \\.\PhysicalDrive161 ATTRIBUTE
SPACE(1400M);
        CREATE DBSPACE  SP148 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 NEWOR DER_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 NEW ORDER_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 SP16 1 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,
                  OVE RFLOW ON SP158 SIZE
11K;

-------------------------------------------------------------------
---------
--  Phase.2-8: Stock
-------------------------------------------------------------------
---------
      CREATE DSO STOCK_DSO
            FROM TPCC_SCHEMA.STOCK
                  TYPE
RANDOM(PAGESIZE1(4),PAGESIZE2(1),RULE(S
_I_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  SIZ E
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 SIZ  E 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 O N 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 CUSTOM ER_IX_1DSI
              INDEX
              DSO CUSTOMER_IX_DSO
              BASE CUSTOMER_1_DSI
              ALLOCATE INDEX    ON SP1 SIZE
64K,
                    BASE    ON SP1 SIZE 6912K;

        CREATE DSI CUSTOMER_IX_2DSI
              INDEX
              DSO CUSTOMER_IX_DSO
              BASE CUSTOMER_2_DSI
              ALLOCATE INDEX    ON SP2 SIZE
64K,
                    BASE    ON SP2 SIZE 6912K;

        CREATE DSI CUSTOMER_IX_161DSI
              INDEX
              DSO CUSTOMER_IX_DSO
              BASE CUSTOMER_161_DSI
              ALLOCATE INDEX    ON SP161 SIZE
64K,
                    BASE    ON SP161 SIZE
6912K;

        CREATE DSI CUSTOMER_IX_162DSI
              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 SIZ E
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 S P162
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 IN DEX    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,
                OVERF LOW 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
_ID/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:\rdb\loaddata
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 ###
      wttpccd1.c.dec_to_int.bin a 1 9 C
%SL_LOAD_D%
      rdbsloader -mi -i TPCC.CUSTOMER_1_DSI
       -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\1_9
      del /Q %SL_LOAD_D%\Customer\1_9
      rdbsloader -mi -i TPCC.HISTORY_1_DSI   -
h -s %WK1_D% -n %SL_LOAD_D%\History\1_9
      del /Q %SL_LOAD_D%\History\1_9
      wttpccd1.c.dec_to_int.bin a 10 18 C
%SL_LOAD_D%
      rdbsloader -mi -i TPCC.CUSTOMER_2_DSI
       -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\10_18
      del /Q %SL_LOAD_D%\Customer\10_18
      rdbsloader -mi -i TPCC.HISTORY_2_DSI   -
h -s %WK1_D% -n %SL_LOAD_D%\History\10_18
```

```
        del /Q %SL_LOAD_D%\History\10_18
        wttpccd1.c.dec_to_int.bin a 19 27 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 28 36 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 37 45 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 46 54 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 55 63 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 64 72 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 73 81 C
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.CUST OMER_9_DSI
         -h -s %WK1_D% -n
%SL_LOAD_D%\Customer\73_81
        del /Q %SL_LOAD_D%\Customer\73_81
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.b in a 1 54 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 55 108 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 109 162 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_t o_int.bin a 163 216 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 217 270 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 271 324 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 325 378 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 379 432 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 433 486 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 487 540 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 541 594 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 595 648 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 649 702 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 703 75 6 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 757 810 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 811 864 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 865 918 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 919 972 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 973 1026 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1027 1080 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1081 1134 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1135 1188 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1189 1242 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1243 1296 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1297 1350 W
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1351 1404 W
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1 54 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 55 108 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 109 162 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 163 216 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 217 270 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 271 324 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 325 378 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 3 79 432 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 433 486 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 487 540 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 541 594 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 595 648 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 649 702 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 703 756 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 757 810 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 811 864 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 865 918 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 919 972 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 973 1026 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1027 1080 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1081 1134 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1135 1188 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1189 1242 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1243 1296 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1297 1350 D
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1351 1404 D
%SL_LOAD_D%
```

```
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1 32 I
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1 9 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_1_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\1_9
        del /Q %SL_LOAD_D%\OrderLine\1_9
        rdbsloader -mi -i  TPCC.ORDERS_1_DSI   -
h -f 10 -s %WK1_D% %SL_LOAD_D%\Orders\1_9
        del /Q %SL_LOAD_D%\Orders\1_9
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 10 18 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_2_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\10_18
        del /Q %SL_LOAD_D%\OrderLine\10_18
        rdbsloader -mi -i  TPCC.ORDERS_2_DSI   -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\10_18
        del /Q %SL_LOAD_D%\Orders\10_18
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 19 27 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_3_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\19_27
        del /Q %SL_LOAD_D%\OrderLine\19_27
        rdbsloader -mi -i  TPCC.ORDERS_3_DSI   -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\19_27
        del /Q %SL_LOAD_D%\Orders\19_27
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 28 36 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_4_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\28_36
        del /Q %SL_LOAD_D%\OrderLine\28_36
        rdbsloader -mi -i  TPCC.ORDERS_4_DSI   -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\28_36
        del /Q %SL_LOAD_D%\Orders\28_36
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 37 45 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_5_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\37_45
        del /Q %SL_LOAD_D%\OrderLine\37_45
        rdbsloader -mi -i  TPCC.ORDERS_5_DSI   -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\37_45
        del /Q %SL_LOAD_D%\Orders\37_45
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 46 54 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_6_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\46_54
        del /Q %SL_LOAD_D%\OrderLine\46_54
        rdbsloader -mi -i  TPCC.ORDERS_6_DSI   -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\46_54
        del /Q %SL_LOAD_D%\Orders\46_54
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 55 63 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_7_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\55_63
        del /Q %SL_LOAD_D%\OrderLine\55_63
        rdbsloader -mi -i  TPCC.ORDERS_7_DSI   -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\55_63
        del /Q %SL_LOAD_D%\Orders\55_63
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 64 72 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_8_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\64_72
        del /Q %SL_LOAD_D%\OrderLine\64_72
        rdbsloader -mi -i  TPCC. ORDERS_8_DSI  -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\64_72
        del /Q %SL_LOAD_D%\Orders\64_72
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 73 81 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_9_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\73_81
        del /Q %SL_LOAD_D%\OrderLine\73_81
        rdbsloader -mi -i  TPCC.ORDERS_9_DSI   -
h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\73_81
        del /Q %SL_LOAD_D%\Orders\73_81
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1 27 S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 28 54 S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 55 81 S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 82 90 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 91 99 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 100 108 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 109  117 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 118 126 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 127 135 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 136 144 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 145 153 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 154 162 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 82 90 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_10_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\82_90
        del /Q %SL_LOAD_D%\OrderLine\82_90
        rdbsloader -mi -i  TPCC.ORDERS_10_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\82_90
        del /Q %SL_LOAD_D%\Orders\82_90
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 91 99 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDE RLIN_11_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\91_99
        del /Q %SL_LOAD_D%\OrderLine\91_99
        rdbsloader -mi -i  TPCC.ORDERS_11_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\91_99
        del /Q %SL_LOAD_D%\Orders\91_99
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 100 108 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_12_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\100_108
        del /Q %SL_LOAD_D%\OrderLine\100_108
        rdbsloader -mi -i  TPCC.ORDERS_12_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\100_108
        del /Q %SL_LOAD_D%\Orders\100_108
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 109 117 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_13_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\109_117
        del /Q %SL_LOAD_D%\OrderLine\109_117
        rdbsloader -mi -i  TPCC.ORDERS_13_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\109_117
        del /Q %SL_LOAD_D%\Orders\109_117
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 118 126 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORD ERLIN_14_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\118_126
        del /Q %SL_LOAD_D%\OrderLine\118_126
        rdbsloader -mi -i  TPCC.ORDERS_14_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\118_126
        del /Q %SL_LOAD_D%\Orders\118_126
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 127 135 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_15_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\127_135
        del /Q %SL_LOAD_D%\OrderLine\127_135
        rdbsloader -mi -i  TPCC.ORDERS_15_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\127_135
        del /Q %SL_LOAD_D%\Orders\127_135
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 136 144 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_16_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\136_144
        del /Q %SL_LOAD_D%\OrderLine\136_144
        rdbsloader -mi -i  TPCC.ORDERS_16_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\136_144
        del /Q %SL_LOAD_D%\Orders\136_144
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 145 153 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_17_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\145_153
        del /Q %SL_LOAD_D%\OrderLine\145_153
        rdbsloader -mi -i  TPCC.ORDERS_17_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\145_153
        del /Q %SL_LOAD_D%\Orders\145_153
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 154 162 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_18_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\154_162
        del /Q %SL_LOAD_D%\OrderLine\154_162
        rdbsloader -mi -i  TPCC.ORDERS_18_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\154_162
        del /Q %SL_LOAD_D%\Orders\154_162
        rdbsloader -mi -i
TPCC.NEWORDER_18_DSI    -h -f 20 -s
%WK1_D% -n
%SL_LOAD_D%\NewOrder\154_162
```

```
        del /Q %SL_LOAD_D%\NewOrder\154_162

@echo sload_1404-02 sleep 30m .....
sleep 30m

@rem ### Stock ###
        wttpccd1.c.dec_to_int.bin a 82   108  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 109  135  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 136  162  S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 163 171 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 172 180 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 181 189 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 190 198 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 199 207  C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 208 216 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 217 225 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 226 234 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 235 243 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin  a 163 171 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_19_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\163_171
        del /Q %SL_LOAD_D%\OrderLine\163_171
        rdbsloader -mi -i  TPCC.ORDERS_19_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\163_171
        del /Q %SL_LOAD_D%\Orders\163_171
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 172 180 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_20_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\172_180
        del /Q %SL_LOAD_D%\OrderLine\172_180
        rdbsloader -mi -i  TPCC.ORDERS_20_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\172_180
        del /Q %SL_LOAD_D%\Orders\172_180
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 181 189 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_21_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\181_189
        del /Q %SL_LOAD_D%\OrderLine\181_189
        rdbsloader -mi -i  TPCC.ORDERS_21_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\181_189
        del /Q %SL_LOAD_D%\Orders\181_189
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 190 198 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_22_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\190_198
        del /Q %SL_LOAD_D%\OrderLine\190_198
        rdbsloader -mi -i  TPCC.ORDERS_22_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\190_198
        del /Q %SL_LOAD_D%\Orders\190_198
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 199 207 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_23_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\199_207
        del /Q %SL_LOAD_D%\OrderLine\199_207
        rdbsloader -mi -i  TPCC.ORDERS_23_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\199_207
        del /Q %SL_LOAD_D%\Orders\199_207
```

```
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 208 216 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_24_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\208_216
        del /Q %SL_LOAD_D%\OrderLine\208_216
        rdbsloader -mi -i  TPCC.ORDERS_24_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\208_216
        del /Q %SL_LOAD_D%\Orders\208_216
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 217 225 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_25_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\217_225
        del /Q %SL_LOAD_D%\OrderLine\217_225
        rdbsloader -mi -i  TPCC.ORDERS_25_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\217_225
        del /Q %SL_LOAD_D%\Orders\217_225
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 226 234 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERL IN_26_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\226_234
        del /Q %SL_LOAD_D%\OrderLine\226_234
        rdbsloader -mi -i  TPCC.ORDERS_26_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\226_234
        del /Q %SL_LOAD_D%\Orders\226_234
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 235 243 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_27_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\235_243
        del /Q %SL_LOAD_D%\OrderLine\235_243
        rdbsloader -mi -i  TPCC.ORDERS_27_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\235_243
        del /Q %SL_LOAD_D%\Orders\235_243
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 163  189  S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin a 190  216  S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin a 217  243  S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 244 252 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 253 261 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 262 270 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 271 279 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 280 288 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 289 297 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 298 306 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 307 315 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 316 324 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 244 252 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_28_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\244_252
```

```
        del /Q %SL_LOAD_D%\OrderLine\244_252
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 253 261 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_29_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\253_261
        del /Q %SL_LOAD_D%\OrderLine\253_261
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 262 270 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_30_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\262_270
        del /Q %SL_LOAD_D%\OrderLine\262_270
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bi n a 271 279 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_31_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\271_279
        del /Q %SL_LOAD_D%\OrderLine\271_279
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 280 288 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_32_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\280_288
        del /Q %SL_LOAD_D%\OrderLine\280_288
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 289 297 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_33_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\289_297
        del /Q %SL_LOAD_D%\OrderLine\289_297
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c. dec_to_int.bin a 298 306 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_34_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\298_306
        del /Q %SL_LOAD_D%\OrderLine\298_306
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 307 315 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_35_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\307_315
        del /Q %SL_LOAD_D%\OrderLine\307_315
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 316 324 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_36_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\316_324
        del /Q %SL_LOAD_D%\OrderLine\316_324
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 244  270  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 271  297  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 298  324  S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 325 333 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -mi -i TPCC.HISTORY_37_DS I -
h -s %WK1_D% -n
%SL_LOAD_D%\History\325_333
        del /Q %SL_LOAD_D%\History\325_333
        wttpccd1.c.dec_to_int.bin a 334 342 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 343 351 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
```

```
        wttpccd1.c.dec_to_int.bin a 352 360 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 361 369 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 370 378 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 379 387 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 388 396 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 397 405 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 325 333 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_37_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\325_333
        del /Q %SL_LOAD_D%\OrderLine\325_333
        rdbsloader -mi -i  TPCC.ORDERS_37_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\325_333
        del /Q %SL_LOAD_D%\Orders\325_333
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 334 342 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_38_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\334_342
        del /Q %SL_LOAD_D%\OrderLine\334_342
        rdbsloader -mi -i  TPCC.ORDERS_38_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\334_342
        del /Q %SL_LOAD_D%\Orders\334_342
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 343 351 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_39_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\343_351
        del /Q %SL_LOAD_D%\OrderLine\343_351
        rdbsloader -mi -i  TPCC.ORDERS_39_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\343_351
        del /Q %SL_LOAD_D%\Orders\343_351
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a  352 360 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_40_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\352_360
        del /Q %SL_LOAD_D%\OrderLine\352_360
        rdbsloader -mi -i  TPCC.ORDERS_40_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\352_360
        del /Q %SL_LOAD_D%\Orders\352_360
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 361 369 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_41_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\361_369
        del /Q %SL_LOAD_D%\OrderLine\361_369
        rdbsloader -mi -i  TPCC.ORDERS_41_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\361_369
        del /Q %SL_LOAD_D%\Orders\361_369
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 370 378 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_42_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\370_378
        del /Q %SL_LOAD_D%\OrderLine\370_378
        rdbsloader -mi -i  TPCC.ORDERS_42_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\370_378
        del /Q %SL_LOAD_D%\Orders\370_378
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 379 387 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_43_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\379_387
        del /Q %SL_LOAD_D%\OrderLine\379_387
        rdbsloader -mi -i  TPCC.ORDERS_43_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\379_387
        del /Q %SL_LOAD_D%\Orders\379_387
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 388 396 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_44_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\388_396
        del /Q %SL_LOAD_D%\OrderLine\388_396
        rdbsloader -mi -i  TPCC.ORDERS_44_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\388_396
        del /Q %SL_LOAD_D%\Orders\388_396
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 397 405 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_45_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\397_405
        del /Q %SL_LOAD_D%\OrderLine\397_405
        rdbsloader -mi -i  TPCC.ORDERS_45_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\397_405
        del /Q %SL_LOAD_D%\Orders\397_405
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 325  351  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 352  378  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 379  405  S
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.STOCK_15_DS I     -
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:\rdb\loaddata
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 ###
        wttpccd1.c.dec_to_int.bin a 406 414 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 415 423 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 424 432 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 433 441 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 442 450 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_t o_int.bin a 451 459 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 460 468 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 469 477 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 478 486 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 406 414 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_46_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\406_414
        del /Q %SL_LOAD_D%\OrderLine\406_414
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 415 423 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_47_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\415_423
        del /Q %SL_LOAD_D%\OrderLine\415_423
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 424 432 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_48_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\424_432
        del /Q %SL_LOAD_D%\OrderLine\424_432
        rdbsloader -mi -i  TPCC.ORDE RS_48_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\424_432
        del /Q %SL_LOAD_D%\Orders\424_432
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 433  441 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_49_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\433_441
        del /Q %SL_LOAD_D%\OrderLine\433_441
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 442 450 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_50_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\442_450
        del /Q %SL_LOAD_D%\OrderLine\442_450
        rdbsloader -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
```

```
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 451 459 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_51_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\451_459
        del /Q %SL_LOAD_D%\OrderLine\451_459
        rdbsloader -mi -i  TPCC.ORDERS_51_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\451_459
        del /Q %SL_LOAD_D%\Orders\451_459
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 460 468 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_52_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\460_468
        del /Q %SL_LOAD_D%\OrderLine\460_468
        rdbsloader -mi -i  TPCC.ORDERS_52_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\460_468
        del /Q %SL_LOAD_D%\Orders\460_468
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 469 477 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_53_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\469_477
        del /Q %SL_LOAD_D%\OrderLine\469_477
        rdbsloader -mi -i  TPCC.ORDERS_53_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\469_477
        del /Q %SL_LOAD_D%\Orders\469_477
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 478 486 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_54_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\478_486
        del /Q %SL_LOAD_D%\OrderLine\478_486
        rdbsloader -mi -i  TPCC.ORDERS_54_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\478_486
        del /Q %SL_LOAD_D%\Orders\478_486
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 406  432  S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin a 433  459  S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin a 460  486  S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 487 495 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 496 504 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 505 513 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 514 522 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 523 531 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 532 540 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 541 549 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 550 558 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 559 567 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 487 495 O
%SL_LOAD_D%
```

```
        rdbsloader -mi -i TPCC.ORDERLIN_55_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\487_495
        del /Q %SL_LOAD_D%\OrderLine\487_495
        rdbsloader -mi -i  TPCC.ORDERS_55_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\487_495
        del /Q %SL_LOAD_D%\Orders\487_495
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 496 504 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_56_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\496_504
        del /Q %SL_LOAD_D%\OrderLine\496_504
        rdbsloader -mi -i  TPCC.ORDERS_56_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\496_504
        del /Q %SL_LOAD_D%\Orders\496_504
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 505 513 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_57_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\505_513
        del /Q %SL_LOAD_D%\OrderLine\505_513
        rdbsloader -mi -i  TPCC.ORDERS_57_DS I
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\505_513
        del /Q %SL_LOAD_D%\Orders\505_513
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 514 522 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_58_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\514_522
        del /Q %SL_LOAD_D%\OrderLine\514_522
        rdbsloader -mi -i  TPCC.ORDERS_58_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\514_522
        del /Q %SL_LOAD_D%\Orders\514_522
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 523 531 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_59_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\523_531
        del /Q %SL_LOAD_D%\OrderLine\523_531
        rdbsloader -mi -i  TPCC.ORDERS_59_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\523_531
        del /Q %SL_LOAD_D%\Orders\523_531
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 532 540 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_60_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\532_540
        del /Q %SL_LOAD_D%\OrderLine\532_540
        rdbsloader -mi -i  TPCC.ORDERS_60_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\532_540
        del /Q %SL_LOAD_D%\Orders\532_540
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a  541 549 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_61_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\541_549
        del /Q %SL_LOAD_D%\OrderLine\541_549
        rdbsloader -mi -i  TPCC.ORDERS_61_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\541_549
        del /Q %SL_LOAD_D%\Orders\541_549
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 550 558 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_62_DSI
         -h      -s %WK1_D %
%SL_LOAD_D%\OrderLine\550_558
        del /Q %SL_LOAD_D%\OrderLine\550_558
        rdbsloader -mi -i  TPCC.ORDERS_62_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\550_558
        del /Q %SL_LOAD_D%\Orders\550_558
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 559 567 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_63_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\559_567
        del /Q %SL_LOAD_D%\OrderLine\559_567
        rdbsloader -mi -i  TPCC.ORDERS_63_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\559_567
        del /Q %SL_LOAD_D%\Orders\559_567
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 487  513  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bi n a 514  540  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 541  567  S
%SL_LOAD_D%
        rdbsloader -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:\rdb\loaddata
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 ###
        wttpccd1.c.dec_to_int.bin a 568 576 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 577 585 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 586 594 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 595 603 C
%SL_LOAD_D%
```

```
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 604 612 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 613 6 21 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 622 630 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 631 639 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 640 648 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 568 576 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_64_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\568_576
        del /Q %SL_LOAD_D%\OrderLine\568_576
        rdbsloader -mi -i  TPCC.ORDERS_64_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\568_576
        del /Q %SL_LOAD_D%\Orders\568_576
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 577 585 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_65_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\577_585
        del /Q %SL_LOAD_D%\OrderLine\577_585
        rdbsloader -mi -i  TPCC.ORDERS_65_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\577_585
        del /Q %SL_LOAD_D%\Orders\577_585
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 586 594 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_66_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\586_594
        del /Q %SL_LOAD_D%\OrderLine\586_594
        rdbsloader -mi -i  TPCC.ORDERS_66_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\586_594
        del /Q %SL_LOAD_D%\Orders\586_594
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 595 603 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_67_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\595_603
        del /Q %SL_LOAD_D%\OrderLine\595_603
        rdbsloader -mi -i  TPCC.ORDERS_67_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\595_603
        del /Q %SL_LOAD_D%\Orders\595_603
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 604 612 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_68_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\604_612
        del /Q %SL_LOAD_D%\OrderLine\604_612
        rdbsloader -mi -i  TPCC.ORDERS_68_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\604_612
        del /Q %SL_LOAD_D%\Orders\604_612
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 613 621 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_69_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\613_621
        del /Q %SL_LOAD_D%\OrderLine\613_621
        rdbsloader -mi -i  TPCC.ORDERS_6 9_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\613_621
        del /Q %SL_LOAD_D%\Orders\613_621
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 622 630  O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_70_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\622_630
        del /Q %SL_LOAD_D%\OrderLine\622_630
        rdbsloader -mi -i  TPCC.ORDERS_70_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\622_630
        del /Q %SL_LOAD_D%\Orders\622_630
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 631 639 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_71_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\631_639
        del /Q %SL_LOAD_D%\OrderLine\631_639
        rdbsloader -mi -i  TPCC.ORDERS_71_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\631_639
        del /Q %SL_LOAD_D%\Orders\631_639
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 640 648 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_72_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\640_648
        del /Q %SL_LOAD_D%\OrderLine\640_648
        rdbsloader -mi -i  TPCC.ORDERS_72_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\640_648
        del /Q %SL_LOAD_D%\Orders\640_648
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 568  594  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 595   621  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 622  648  S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 649 657 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 658 666 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 667 675 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 676 684 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 685 693 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 694 702 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 703 711 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 712 720 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 721 729 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 649 657 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_73_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\649_657
        del /Q %SL_LOAD_D%\OrderLine\649_657
        rdbsloader -mi -i  TPCC.ORDERS_73_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\649_657
        del /Q %SL_LOAD_D%\Orders\649_657
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 658 666 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_74_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\658_666
        del /Q %SL_LOAD_D%\OrderLine\658_666
        rdbsloader -mi -i  TPCC.ORDERS_74_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\658_666
        del /Q %SL_LOAD_D%\Orders\658_666
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 667 675 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_75_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\667_675
        del /Q %SL_LOAD_D%\OrderLine\667_675
        rdbsloader -mi -i  TPCC.ORDERS_75_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\667_675
        del /Q %SL_LOAD_D%\Orders\667_675
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 676 684 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_76_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\676_684
        del /Q %SL_LOAD_D%\OrderLine\676_684
        rdbsloader -mi -i  TPCC.ORDERS_76_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\676_684
        del /Q %SL_LOAD_D%\Orders\676_684
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 685 693 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_77_DSI
         -h     -s %WK1_D%
%SL_LOAD_D%\OrderLine\685_693
        del /Q %SL_LOAD_D%\OrderLine\685_693
        rdbsloader -mi -i  TPCC.ORDERS_77_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\685_693
        del /Q %SL_LOAD_D%\Orders\685_693
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 694 702 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_78_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\694_702
        del /Q %SL_LOAD_D%\OrderLine\694_702
        rdbsloader -mi -i  TPCC.ORDERS_78_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\694_702
        del /Q %SL_LOAD_D%\Orders\694_702
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 703 711 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_79_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\703_711
        del /Q %SL_LOAD_D%\OrderLine\703_711
        rdbsloader -mi -i  TPCC.ORDERS_79_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\703_711
        del /Q %SL_LOAD_D%\Orders\703_711
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 712 720 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_80_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\712_720
        del /Q %SL_LOAD_D%\OrderLine\712_720
        rdbsloader -mi -i  TPCC.ORDERS_80_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\712_720
        del /Q %SL_LOAD_D%\Orders\712_720
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 721 729 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_81_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\721_729
        del /Q %SL_LOAD_D%\OrderLine\721_729
        rdbsloader -mi -i  TPCC.ORDERS_81_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\721_729
        del /Q %SL_LOAD_D%\Orders\721_729
        rdbsloader -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


@echo sload_1404-09 sleep 30m .....
sleep 30m
```

```
@rem ### Stock ###
        wttpccd1.c.dec_to_int.bin a 649  675  S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin a 676  702  S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin a 703  729  S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 730 738 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 739 747 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -mi -i TPCC.HISTORY_83_DS I -
h -s %WK1_D% -n
%SL_LOAD_D%\History\739_747
        del /Q %SL_LOAD_D%\History\739_747
        wttpccd1.c.dec_to_int.bin a 748 756 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 757 765 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 766 774 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 775 783 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c. dec_to_int.bin a 784 792 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 793 801 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 802 810 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 730 738 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERL IN_82_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\730_738
```

```
        del /Q %SL_LOAD_D%\OrderLine\730_738
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 739 747 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_83_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\739_747
        del /Q %SL_LOAD_D%\OrderLine\739_747
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 748 756 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_84_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\748_756
        del /Q %SL_LOAD_D%\OrderLine\748_756
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 757 765 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_85_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\757_765
        del /Q %SL_LOAD_D%\OrderLine\757_765
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 766 774 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_86_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\766_774
        del /Q %SL_LOAD_D%\OrderLine\766_774
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 775 783 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_87_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\775_783
        del /Q %SL_LOAD_D%\OrderLine\775_783
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 784 792 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_88_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\784_792
        del /Q %SL_LOAD_D%\OrderLine\784_792
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 793 801 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_89_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\793_801
        del /Q %SL_LOAD_D%\OrderLine\793_801
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 802 810 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_90_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\802_810
        del /Q %SL_LOAD_D%\OrderLine\802_810
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 730  756  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 757  783  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 784  810  S
%SL_LOAD_D%
        rdbsloader -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=r:\rdb\loaddata
set WK1_D=r:\rdb\sortwk1
set WK2_D=s:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4


@rem ### Customer ###
@rem ### History ###
        wttpccd1.c.dec_to_int.bin a 811 819 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 820 828 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 829 837 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 838 846 C
%SL_LOAD_D%
        rdbsloader -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
```

```
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 847 855 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 856 864 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int. bin a 865 873 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 874 882 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 883 891 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 811 819 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_91_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\811_819
        del /Q %SL_LOAD_D%\OrderLine\811_819
        rdbsloader -mi -i  TPCC.ORDERS_91_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\811_819
        del /Q %SL_LOAD_D%\Orders\811_819
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 820 828 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_92_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\820_828
        del /Q %SL_LOAD_D%\OrderLine\820_828
        rdbsloader -mi -i  TPCC.ORDERS_92_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\820_828
        del /Q %SL_LOAD_D%\Orders\820_828
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 829 837 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_93_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\829_837
        del /Q %SL_LOAD_D%\OrderLine\829_837
        rdbsloader -mi -i  TPCC.ORDERS_93_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\829_837
        del /Q %SL_LOAD_D%\Orders\829_837
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 838 846 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDE RLIN_94_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\838_846
        del /Q %SL_LOAD_D%\OrderLine\838_846
        rdbsloader -mi -i  TPCC.ORDERS_94_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\838_846
        del /Q %SL_LOAD_D%\Orders\838_846
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 847 855 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_95_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\847_855
        del /Q %SL_LOAD_D%\OrderLine\847_855
        rdbsloader -mi -i  TPCC.ORDERS_95_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\847_855
        del /Q %SL_LOAD_D%\Orders\847_855
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 856 864 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_96_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\856_864
        del /Q %SL_LOAD_D%\OrderLine\856_864
        rdbsloader -mi -i  TPCC.ORDERS_96_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\856_864
        del /Q %SL_LOAD_D%\Orders\856_864
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 865 873 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_97_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\865_873
        del /Q %SL_LOAD_D%\OrderLine\865_873
        rdbsloader -mi -i  TPCC.ORDERS_97_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\865_873
        del /Q %SL_LOAD_D%\Orders\865_873
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 874 882 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_98_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\874_882
        del /Q %SL_LOAD_D%\OrderLine\874_882
        rdbsloader -mi -i  TPCC.ORDERS_98_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\874_882
        del /Q %SL_LOAD_D%\Orders\874_882
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 883 891 O
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.ORDERLIN_99_DSI
         -h      -s %WK1_D%
%SL_LOAD_D%\OrderLine\883_891
        del /Q %SL_LOAD_D%\OrderLine\883_891
        rdbsloader -mi -i  TPCC.ORDERS_99_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\883_891
        del /Q %SL_LOAD_D%\Orders\883_891
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 811  837  S
%SL_LOAD_D%
```

```
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 838  864  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 865  891  S
%SL_LOAD_D%
        rdbsloader -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=s:\rdb\loaddata
set WK1_D=s:\rdb\sortwk1
set WK2_D=r:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4


@rem ### Customer ###
@rem ### History ###
        wttpccd1.c.dec_to_int.bin a 892 900 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 901 909 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 910 918 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 919 927 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 928 936 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 937 945 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 946 954 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 955 963 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 964 972 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 892 900 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_100_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\892_900
        del /Q %SL_LOAD_D%\OrderLine\892_900
        rdbsloader -mi -i  TPCC.ORDERS_100_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\892_900
        del /Q %SL_LOAD_D%\Orders\892_900
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 901 909 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_101_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\901_909
        del /Q %SL_LOAD_D%\OrderLine\901_909
        rdbsloader -mi -i  TPCC.ORDERS_101_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\901_909
        del /Q %SL_LOAD_D%\Orders\901_909
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 910 918 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_102_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\910_918
        del /Q %SL_LOAD_D%\OrderLine\910_918
        rdbsloader -mi -i  TPCC.ORDERS_102_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\910_918
        del /Q %SL_LOAD_D%\Orders\910_918
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 919 927 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_103_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\919_927
        del /Q %SL_LOAD_D%\OrderLine\919_927
        rdbsloader -mi -i  TPCC.ORDERS_103_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\919_927
        del /Q %SL_LOAD_D%\Orders\919_927
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 928 936 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_104_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\928_936
        del /Q %SL_LOAD_D%\OrderLine\928_936
        rdbsloader -mi -i  TPCC.ORDERS_104_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\928_936
        del /Q %SL_LOAD_D%\Orders\928_936
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 937 945 O
%SL_LOAD_D%
```

```
        rdbsloader -mi -i
TPCC.ORDERLIN_105_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\937_945
        del /Q %SL_LOAD_D%\OrderLine\937_945
        rdbsloader -mi -i  TPCC.ORDERS_105_D SI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\937_945
        del /Q %SL_LOAD_D%\Orders\937_945
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 946 954 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_106_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\946_954
        del /Q %SL_LOAD_D%\OrderLine\946_954
        rdbsloader -mi -i  TPCC.ORDERS_106_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\946_954
        del /Q %SL_LOAD_D%\Orders\946_954
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 955 963 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_107_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\955_963
        del /Q %SL_LOAD_D%\OrderLine\955_963
        rdbsloader -mi -i  TPCC.ORDERS_107_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\955_963
        del /Q %SL_LOAD_D%\Orders\955_963
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 964 972 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_108_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\964_972
        del /Q %SL_LOAD_D%\OrderLine\964_972
        rdbsloader -mi -i  TPCC.ORDERS_108_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\964_972
        del /Q %SL_LOAD_D%\Orders\964_972
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 892  918  S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin  a 919  945  S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin a 946  972  S
%SL_LOAD_D%
        rdbsloader -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=t:\rdb\loaddata
set WK1_D=t:\rdb\sortwk1
set WK2_D=u:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4


@rem ### Customer ###
@rem ### History ###
        wttpccd1.c.dec_to_int.bin a 973 981 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 982 990 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 991 999 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1000 1008 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1009 1017 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1018 1026 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1027 1035 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -mi -i TPCC.HIST ORY_115_DSI
         -h -s %WK1_D% -n
%SL_LOAD_D%\History\1027_1035
        del /Q %SL_LOAD_D%\History\1027_1035
        wttpccd1.c.dec_to_int.bin a 1036 1044 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1045 1053 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 973 981 O
%SL_LOAD_D%
```

```
        rdbsloader -mi -i
TPCC.ORDERLIN_109_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\973_981
        del /Q %SL_LOAD_D%\OrderLine\973_981
        rdbsloader -mi -i  TPCC.ORDERS_109_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\973_981
        del /Q %SL_LOAD_D%\Orders\973_981
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 982 990 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_110_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\982_990
        del /Q %SL_LOAD_D%\OrderLine\982_990
        rdbsloader -mi -i  TPCC.ORDERS_110_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\982_990
        del /Q %SL_LOAD_D%\Orders\982_990
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 991 999 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_111_DSI    -h     -s
%WK1_D% %SL_LOAD_D%\OrderLine\991_999
        del /Q %SL_LOAD_D%\OrderLine\991_999
        rdbsloader -mi -i  TPCC.ORDERS_111_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\991_999
        del /Q %SL_LOAD_D%\Orders\991_999
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1000 1008 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_112_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1000_1008
        del /Q
%SL_LOAD_D%\OrderLine\1000_1008
        rdbsloader -mi -i  TPCC.ORDERS_112 _DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1000_1008
        del /Q %SL_LOAD_D%\Orders\1000_1008
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a  1009 1017 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_113_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1009_1017
        del /Q
%SL_LOAD_D%\OrderLine\1009_1017
        rdbsloader -mi -i  TPCC.ORDERS_113_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1009_1017
        del /Q %SL_LOAD_D%\Orders\1009_1017
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1018 1026 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_114_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1018_1026
        del /Q
%SL_LOAD_D%\OrderLine\1018_1026
        rdbsloader -mi -i  TPCC.ORDERS_114_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1018_1026
        del /Q %SL_LOAD_D%\Orders\1018_1026
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1027 1035 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_115_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1027_1035
        del /Q
%SL_LOAD_D%\OrderLine\1027_1035
        rdbsloader -mi -i  TPCC.ORDERS_115_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1027_1035
        del /Q %SL_LOAD_D%\Orders\1027_1035
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1036 1044 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_116_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1036_1044
        del /Q
%SL_LOAD_D%\OrderLine\1036_1044
        rdbsloader -mi -i  TPCC.ORDERS_116 _DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1036_1044
        del /Q %SL_LOAD_D%\Orders\1036_1044
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a  1045 1053 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_117_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1045_1053
        del /Q
%SL_LOAD_D%\OrderLine\1045_1053
        rdbsloader -mi -i  TPCC.ORDERS_117_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1045_1053
        del /Q %SL_LOAD_D%\Orders\1045_1053
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bi n a 973  999  S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 1000 1026 S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 1027 1053 S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1054 1062 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1063 1071 C
%SL_LOAD_D%
```

```
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1072 1080 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1081 1089 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1090 1098 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1099 1107 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1108 1116 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1117 1125 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1126 1134 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin  a 1054 1062 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_118_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1054_1062
        del /Q
%SL_LOAD_D%\OrderLine\1054_1062
        rdbsloader -mi -i  TPCC.ORDERS_118_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1054_1062
        del /Q %SL_LOAD_D%\Orders\1054_1062
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1063 1071 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_119_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1063_1071
        del /Q
%SL_LOAD_D%\OrderLine\1063_1071
        rdbsloader -mi -i  TPCC.ORDERS_119_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1063_1071
        del /Q %SL_LOAD_D%\Orders\1063_1071
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1072 1080 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_120_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1072_1080
        del /Q
%SL_LOAD_D%\OrderLine\1072_1080
        rdbsloader -mi -i  TPCC.ORDERS_120_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1072_1080
        del /Q %SL_LOAD_D%\Orders\1072_1080
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1081 1089 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_121_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1081_1089
        del /Q
%SL_LOAD_D%\OrderLine\1081_1089
        rdbsloader -mi -i  TPCC.ORDERS_1 21_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1081_1089
        del /Q %SL_LOAD_D%\Orders\1081_1089
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin  a 1090 1098 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_122_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1090_1098
        del /Q
%SL_LOAD_D%\OrderLine\1090_1098
        rdbsloader -mi -i  TPCC.ORDERS_122_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1090_1098
        del /Q %SL_LOAD_D%\Orders\1090_1098
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1099 1107 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_123_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1099_1107
        del /Q
%SL_LOAD_D%\OrderLine\1099_1107
        rdbsloader -mi -i  TPCC.ORDERS_123_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1099_1107
        del /Q %SL_LOAD_D%\Orders\1099_1107
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1108 1116 O
%SL_LOAD_D%
```

```
        rdbsloader -mi -i
TPCC.ORDERLIN_124_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1108_1116
        del /Q
%SL_LOAD_D%\OrderLine\1108_1116
        rdbsloader -mi -i  TPCC.ORDERS_124_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1108_1116
        del /Q %SL_LOAD_D%\Orders\1108_1116
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1117 1125 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_125_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1117_1125
        del /Q
%SL_LOAD_D%\OrderLine\1117_1125
        rdbsloader -mi -i  TPCC.ORDERS_1 25_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1117_1125
        del /Q %SL_LOAD_D%\Orders\1117_1125
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin  a 1126 1134 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_126_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1126_1134
        del /Q
%SL_LOAD_D%\OrderLine\1126_1134
        rdbsloader -mi -i  TPCC.ORDERS_126_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1126_1134
        del /Q %SL_LOAD_D%\Orders\1126_1134
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int. bin a 1054 1080 S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin a 1081 1107 S
%SL_LOAD_D%
        rdbsloader -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


        wttpccd1.c.dec_to_int.bin a 1108 1134 S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1135 1143 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1144 1152 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1153 1161 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1162 1170 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1171 1179 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1180 1188 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1189 1197 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1198 1206 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1207 1215 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int .bin a 1135 1143 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_127_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1135_1143
        del /Q
%SL_LOAD_D%\OrderLine\1135_1143
```

```
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1144 1152 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_128_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1144_1152
        del /Q
%SL_LOAD_D%\OrderLine\1144_1152
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1153 1161 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_129_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1153_1161
        del /Q
%SL_LOAD_D%\OrderLine\1153_1161
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1162 1170 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_130_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1162_1170
        del /Q
%SL_LOAD_D%\OrderLine\1162_1170
        rdbsloader -mi -i  TPCC.ORD ERS_130_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1162_1170
        del /Q %SL_LOAD_D%\Orders\1162_1170
        rdbsloader -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
        wttpccd1.c.dec_to_int .bin a 1171 1179 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_131_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1171_1179
        del /Q
%SL_LOAD_D%\OrderLine\1171_1179
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1180 1188 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_132_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1180_1188
        del /Q
%SL_LOAD_D%\OrderLine\1180_1188
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1189 1197 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_133_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1189_1197
        del /Q
%SL_LOAD_D%\OrderLine\1189_1197
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1198 1206 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_134_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1198_1206
        del /Q
%SL_LOAD_D%\OrderLine\1198_1206
        rdbsloader -mi -i  TPCC.ORD ERS_134_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1198_1206
        del /Q %SL_LOAD_D%\Orders\1198_1206
        rdbsloader -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
        wttpccd1.c.dec_to_int .bin a 1207 1215 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_135_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1207_1215
        del /Q
%SL_LOAD_D%\OrderLine\1207_1215
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to _int.bin a 1135 1161 S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 1162 1188 S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 1189 1215 S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1216 1224 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
```

```
        wttpccd1.c.dec_to_int.bin a 1225 1233 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1234 1242 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1243 1251 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1252 1260 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1261 12 69 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1270 1278 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1279 1287 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1288 1296 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_t o_int.bin a 1216 1224 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_136_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1216_1224
        del /Q
%SL_LOAD_D%\OrderLine\1216_1224
        rdbsloader -mi -i  TPCC.ORDERS_136_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1216_1224
        del /Q %SL_LOAD_D%\Orders\1216_1224
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1225 1233 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_137_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1225_1233
        del /Q
%SL_LOAD_D%\OrderLine\1225_1233
        rdbsloader -mi -i  TPCC.ORDERS_137_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1225_1233
        del /Q %SL_LOAD_D%\Orders\1225_1233
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1234 1242 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_138_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1234_1242
        del /Q
%SL_LOAD_D%\OrderLine\1234_1242
        rdbsloader -mi -i  TPCC.ORDERS_138_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1234_1242
        del /Q %SL_LOAD_D%\Orders\1234_1242
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1243 1251 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_139_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1243_1251
        del /Q
%SL_LOAD_D%\OrderLine\1243_1251
        rdbsloader -mi -i  TPCC.ORDERS_139_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1243_1251
        del /Q %SL_LOAD_D%\Orders\1243_1251
        rdbsloader -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
        wttpccd1.c.dec_t o_int.bin a 1252 1260 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_140_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1252_1260
        del /Q
%SL_LOAD_D%\OrderLine\1252_1260
        rdbsloader -mi -i  TPCC.ORDERS_140_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1252_1260
        del /Q %SL_LOAD_D%\Orders\1252_1260
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1261 1269 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_141_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1261_1269
        del /Q
%SL_LOAD_D%\OrderLine\1261_1269
        rdbsloader -mi -i  TPCC.ORDERS_141_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1261_1269
        del /Q %SL_LOAD_D%\Orders\1261_1269
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1270 1278 O
%SL_LOAD_D%
```

```
        rdbsloader -mi -i
TPCC.ORDERLIN_142_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1270_1278
        del /Q
%SL_LOAD_D%\OrderLine\1270_1278
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1279 1287 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_143_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1279_1287
        del /Q
%SL_LOAD_D%\OrderLine\1279_1287
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1288 1296 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_144_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1288_1296
        del /Q
%SL_LOAD_D%\OrderLine\1288_1296
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1216 1242 S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 1243 1269 S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 1270 1296 S
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1297  1305 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1306 1314 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1315 1323 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1324 1332 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1333 1341 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a  1342 1350 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1351 1359 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1360 1368 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1369 1377 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1297 1305 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_145_DSI    -h     -s
```

```
%WK1_D%
%SL_LOAD_D%\OrderLine\1297_1305
        del /Q
%SL_LOAD_D%\OrderLine\1297_1305
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1306 1314 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_146_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1306_1314
        del /Q
%SL_LOAD_D%\OrderLine\1306_1314
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1315 1323 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_147_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1315_1323
        del /Q
%SL_LOAD_D%\OrderLine\1315_1323
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1324 1332 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_148_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1324_1332
        del /Q
%SL_LOAD_D%\OrderLine\1324_1332
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1333 1341 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_149_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1333_1341
        del /Q
%SL_LOAD_D%\OrderLine\1333_1341
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1342 1350 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_150_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1342_1350
        del /Q
%SL_LOAD_D%\OrderLine\1342_1350
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1351 1359 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_151_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1351_1359
        del /Q
%SL_LOAD_D%\OrderLine\1351_1359
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1360 1368 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_152_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1360_1368
        del /Q
%SL_LOAD_D%\OrderLine\1360_1368
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1369 1377 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_153_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1369_1377
        del /Q
%SL_LOAD_D%\OrderLine\1369_1377
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1297 1323 S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 1324 1350 S
%SL_LOAD_D%
        rdbsloader -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

        wttpccd1.c.dec_to_int.bin a 1351 1377 S
%SL_LOAD_D%
        rdbsloader -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:\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

@rem del /Q x:\rdb\loaddata\Item\*_*
@rem del /Q x:\rdb\loaddata\Warehouse\*_*
@rem del /Q x:\rdb\loaddata\District\*_*
@rem del /Q x:\rdb\loaddata\Stock\*_*
@rem del /Q x:\rdb\loaddata\Orders\*_*
@rem del /Q x:\rdb\loaddata\NewOrder\*_*
@rem del /Q x:\rdb\loaddata\OrderLine\*_*
@rem del /Q x:\rdb\loaddata\Customer\*_*
@rem del /Q x:\rdb\loaddata\History\*_*
```

```
@rem del /Q x:\rdb\sortwk?\SRT*

@rem ### Customer ###
@rem ### History ###
        wttpccd1.c.dec_to_int.bin a 1378 1386 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1387 1395 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin  a 1396 1404 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1405 1413 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1414 1422 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1423 1431 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1432 1440 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int. bin a 1441 1449 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1450 1458 C
%SL_LOAD_D%
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1378 1386 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_154_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1378_1386
        del /Q
%SL_LOAD_D%\OrderLine\1378_1386
        rdbsloader -mi -i  TPCC.ORDERS_154_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1378_1386
        del /Q %SL_LOAD_D%\Orders\1378_1386
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1387 1395 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_155_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1387_1395
        del /Q
%SL_LOAD_D%\OrderLine\1387_1395
        rdbsloader -mi -i  TPCC.ORDERS_155_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1387_1395
        del /Q %SL_LOAD_D%\Orders\1387_1395
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1396 1404 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_156_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1396_1404
        del /Q
%SL_LOAD_D%\OrderLine\1396_1404
        rdbsloader -mi -i  TPCC.ORDERS_156_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1396_1404
        del /Q %SL_LOAD_D%\Orders\1396_1404
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1405 1413 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_157_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1405_1413
        del /Q
%SL_LOAD_D%\OrderLine\1405_1413
        rdbsloader -mi -i  TPCC.ORDERS_157_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1405_1413
        del /Q %SL_LOAD_D%\Orders\1405_1413
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1414 1422 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_158_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1414_1422
        del /Q
%SL_LOAD_D%\OrderLine\1414_1422
        rdbsloader -mi -i  TPCC.ORDERS_158_DSI
         -h -f 10 -s %WK1_D%
%SL_LOAD_D%\Orders\1414_1422
        del /Q %SL_LOAD_D%\Orders\1414_1422
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1423 1431 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_159_DSI    -h     -s
```

```
%WK1_D%
%SL_LOAD_D%\OrderLine\1423_1431
        del /Q
%SL_LOAD_D%\OrderLine\1423_1431
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1432 1440 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_160_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1432_1440
        del /Q
%SL_LOAD_D%\OrderLine\1432_1440
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1441 1449 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_161_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1441_1449
        del /Q
%SL_LOAD_D%\OrderLine\1441_1449
        rdbsloader -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
        rdbsloader -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
        wttpccd1.c.dec_to_int.bin a 1450 1458 O
%SL_LOAD_D%
        rdbsloader -mi -i
TPCC.ORDERLIN_162_DSI    -h     -s
%WK1_D%
%SL_LOAD_D%\OrderLine\1450_1458
        del /Q
%SL_LOAD_D%\OrderLine\1450_1458
        rdbsloader -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
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1405 1458 W
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1405 1458 D
%SL_LOAD_D%
        rdbsloader -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 ###
        wttpccd1.c.dec_to_int.bin a 1378 1404 S
%SL_LOAD_D%
        rdbsloader -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
        wttpccd1.c.dec_to_int .bin a 1405 1431 S
%SL_LOAD_D%
        rdbsloader -mi -i TPCC.STOCK_53_DSI     -
s %WK1_D% -n
%SL_LOAD_D%\Stock\1405_1431
        del /Q %SL_LOAD_D%\Stock\1405_1431
        wttpccd1.c.dec_to_int.bin a 1432 1458 S
%SL_LOAD_D%
        rdbsloader -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.DISTRICT_1_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT _2_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_3_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_4_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_5_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_6_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_7_DSI -s %WK1_D%
rdbups -i TPCC.DISTRI CT_8_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_9_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_10_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_11_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_12_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_13_DSI -s %WK1_D%
rdbups -i TPCC. DISTRICT_14_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_15_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_16_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_17_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_18_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_19_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_20_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_21_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_22_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_23_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_24_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_25_DSI -s %WK1_D%
rdbups -i TPCC.DISTRICT_26_DSI -s %WK1_D%

rdbups -i TPCC.CUSTOMER_1_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_2_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_3_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_4_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_5_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_6_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_7_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_8_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_9_DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_1DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_2DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_3DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_4DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_5DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_6DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_7DSI -s %WK1_D%
rdbups -i TPCC.CUSTO MER_IX_8DSI -s %WK1_D%
rdbups -i TPCC.CUSTOMER_IX_9DSI -s %WK1_D%

rdbups -i TPCC.ORDERS_1_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_2_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_3_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_4_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_5_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_6_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_7_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_8_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_9_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_1_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_2_D SI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_3_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_4_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_5_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_6_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_7_DSI -s %WK1_D%
rdbups -i TPCC.ORDER S_IX_8_DSI -s %WK1_D%
rdbups -i TPCC.ORDERS_IX_9_DSI -s %WK1_D%

rdbups -i TPCC.ORDERLIN_1_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_2_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_3_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_4_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_5_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_6_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_7_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_8_DSI -s %WK1_D%
rdbups -i TPCC.ORDERLIN_9_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_1_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_2_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_3_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_4_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_5_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_6_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_7_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_8_DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_9_DSI -s %WK1_D%

rdbups -i TPCC.NEWORDER_IX_1DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_2DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_3DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX _4DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_5DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_6DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_7DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_8DSI -s %WK1_D%
rdbups -i TPCC.NEWORDER_IX_9DSI -s %WK1_D%

rdbups -i TPCC.HISTORY_1_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_2_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_3_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_4_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_5_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_6_DSI -s %WK1_D%
rdbups -i TPCC. HISTORY_7_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_8_DSI -s %WK1_D%
rdbups -i TPCC.HISTORY_9_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.ORDERS_10_DSI    -s
%WK1_D%
        rdbups -i TPCC.ORDERS_11_DSI    -s
%WK1_D%
        rdbups -i TPCC.ORDERS_12_DSI    -s
%WK1_D%
        rdbups -i TPCC.ORDERS_13_DSI    -s
%WK1_D%
        rdbups -i TPCC.ORDERS_14_DSI    -s
%WK1_D%
        rdbups -i TPCC.ORDERS_15_DSI    -s
%WK1_D%
        rdbups -i TPCC.ORDERS_16_DSI    -s
%WK1_D%
        rdbups -i TPCC.ORDERS_17_DSI    -s
%WK1_D%
        rdbups -i TPCC.ORDERS_18_DSI    -s
%WK1_D%
        rdbups -i TPCC.ORDERS_IX_10_DSI   -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_11_DSI   -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_12_DSI   -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_13_DSI   -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_14_DSI   -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_15_DSI   -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_16_DSI   -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_17_DSI   -
s %WK1_D%
        rdbups -i TPCC.ORDERS_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 %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_19DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_20DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_21DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_22DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_23DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_24DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_25DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_26DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_27DSI    -
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 %WK1_D%
        rdbups -i TPCC.ORDERS_IX_20_DSI     -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_21_DSI     -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_22_DSI     -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_23_DSI     -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_24_DSI     -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_25_DSI     -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_26_DSI     -
s %WK1_D%
        rdbups -i TPCC.ORDERS_IX_27_DSI     -
s %WK1_D%

        rdbups -i TPCC.ORDERLIN_19_DSI
         -s %WK1_D%
        rdbups -i TPCC.ORDERLIN_20_DSI
         -s %WK1_D%
        rdbups -i TPCC.ORDERLIN_2 1_DSI
         -s %WK1_D%
        rdbups -i TPCC.ORDERLIN_22_DSI
         -s %WK1_D%
        rdbups -i TPCC.ORDERLIN_23_DSI
         -s %WK1_D%
        rdbups -i TPCC.ORDERLIN_24_DSI
         -s %WK1_D%
        rdbups -i TPCC.ORDERLIN_25_DSI
         -s %WK1_D%
        rdbups -i TPCC.ORDERLIN_26_DSI
         -s %WK1_D%
        rdbups -i TPCC.ORDERLIN_27_DSI
         -s %WK1_D%

        rdbups -i TPCC.NEWORDER_19_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_20_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_21_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_22_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_23_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_24_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_25_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_26_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_27_DSI
         -s %WK1_D%

        rdbups -i TPCC.NEWORDER_IX_19DSI    -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_I X_20DSI   -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_21DSI    -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_22DSI    -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_23DSI    -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_24DSI    -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_25DSI    -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_26DSI    -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_27DSI    -
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 %WK1_D%
        rdbups -i TPCC.CUSTOMER_29_DSI      -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_30_DSI      -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_31_DSI      -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_32_DSI      -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_33_DSI      -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_34_DSI      -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_35_DSI      -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_36_DSI      -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_28DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_29DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_30DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_31DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_32DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_33DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_34DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_35DSI    -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_36DSI    -
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_D SI
         -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=l:\rdb\loaddata
set WK1_D=l:\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.OR DERS_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.CUST OMER_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_63DS I -
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_DS I
         -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.HISTOR Y_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.HIST ORY_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_DS I
         -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:\rdb\loaddata
set WK1_D=r:\rdb\sortwk1
set WK2_D=x:\rdb\sortwk2
set WK3_D=x:\rdb\sortwk3
set WK4_D=x:\rdb\sortwk4

        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_D SI
         -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_92DSI -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_93DSI -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_94DSI -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_95DSI -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_96DSI -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_97DSI -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_98DSI -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_99DSI -
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_100DSI  -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_ 101DSI -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_102DSI  -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_103DSI  -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_104DSI  -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_105DSI  -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_106DSI  -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_107DSI  -
s %WK1_D%
        rdbups -i TPCC.CUSTOMER_IX_108DSI  -
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_100DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_101DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_102DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_103DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_104DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_105DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_106DSI  -
s %WK1_D%
```

```
        rdbups -i TPCC.NEWORDER_IX_107DSI -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_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.NEWORDER_109_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_110_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_111_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_112_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_113_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_114_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_115_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_116_DSI
         -s %WK1_D%
        rdbups -i TPCC.NEWORDER_117_DSI
         -s %WK1_D%

        rdbups -i TPCC.NEWORDER_IX_109DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_110DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_111DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_112DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_113DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_114DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_115DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_IX_116DSI  -
s %WK1_D%
        rdbups -i TPCC.NEWORDER_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_144DSI -
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:\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_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: wttpccd1.c.dec_to_int.bin.c

```
/*
 *      File Name   : wttpccd.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|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 : pptpcc2(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 NEWORDS                      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\\"
char    D_BASE[32];

/*
*/

/*              */
/*                 */
char   yyyymmddhhmmss[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,
 *
 *
 *      Grobals Ref : nothing
 *      Grobals Out         : 1. yyyymmddhhmmss,
 *      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: wttpcc [output_dir] "
              "[start_warehouse] "
              "[end_warehouse] "
              "[maketype]..\n\n");
                printf(" [maketype] make data seeds
for rdbsloader "
              "(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("wttpcc: 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"         )    */
```

```
        EnvGetI_ID = getenv( "TPCRANDBY" );

        if( EnvGetI_ID == NULL ){
                I_ID_Rand_by = 1;
                printf("wttpcc: Warning: "
           "TPCRANDBY: Normal OL_I_ID\n");

        } else {

                I_ID_Rand_by = atoi( EnvGetI_ID );
                printf("wttpcc: INFO: "
           "TPCRANDBY: (%d) * OL_I_ID \n",
I_ID_Rand_by);

                if( ( I_ID_Rand_by < 1 ) || (
I_ID_Rand_by > MAXSTOCK ) ){
                        I_ID_Rand_by = 1;
                        printf("wttpcc: Warning: "
                "TPCRANDBY: OUT of range(1--
%d)."
                "Normal OL_I_ID\n",
                MAXSTOCK);

                }

        }

/*      :961127:K.Fukui: (above is all) */

    /*   wttpccd1.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("wttpcc: 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(yyyymmddhhmmss,"%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,"wttpcc: INFO: ITEM Start\n");
                                        /* item            */
                                        item();

        fprintf(stderr,"wttpcc: INFO: ITEM End\n");
                                }
                        else
                        {
                          printf("wttpcc: Warning: "
                              "    warehouse  '1'          ,"
                              "ITEM                \n") ;
                        }
                                break;

                        case  'W':
                                fprintf(stderr,"wttpcc:
INFO: "
                "WAREHOUSE (%d  %dwh)
Start\n",
                base_ware,last_ware);
                                /* warehouse            */

        warehouse(base_ware,last_ware);
                                fprintf(stderr,"wttpcc:
INFO: "
                "WAREHOUSE (%d  %dwh) End\n",
                base_ware,last_ware);
                                break;

                        case  'S':
                                fprintf(stderr,"wttpcc:
INFO: "
                "STOCK (%d  %dwh) Start\n",
                base_ware, last_ware);
                                /* stock            */

        stock(base_ware,last_ware);
                                fprintf(stderr,"wttpcc:
INFO: "
                "STOCK (%d  %dwh) End\n",
                base_ware, last_ware);
                                break;

                        case  'D':
                                fprintf(stderr,"wttpcc:
INFO: "
                "DISTRICT (%d  %dwh) Start\n",
                base_ware, last_ware);
                                /* district             */

        district(base_ware,last_ware);
                                fprintf(stderr,"wttpcc:
INFO: "
                "DISTRICT (%d  %dwh) End\n",
                base_ware, last_ware);
                                break;

                        case  'C':
                                fprintf(stderr,"wttpcc:
INFO: "
                "CUSTOMER/HISTORY (%d
%dwh) Start\n",
                base_ware, last_ware);
                                /* customer             */

        customer(base_ware,last_ware);
                                fprintf(stderr,"wttpcc:
INFO: "
                "CUSTOMER/HISTORY (%d
%dwh) End\n",
                base_ware, last_ware);
                                break;

                        case  'O':
                                fprintf(stderr,"wttpcc:
INFO: "
                "ORDERS/O.LINE/N.ORDER (%d
%dwh) Start\n",
                base_ware, last_ware);
                                /* orders               */

        orders(base_ware,last_ware);
                                fprintf(stderr,"wttpcc:
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("wttpcc: 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%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%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("wttpcc: 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;*/
```

```
                /*              */
/*              fprintf(fst2,"%d,\"%-10s\",\"%-
20s\",\"%-20s\",\"%-20s\",\"%-2s\",\"%-
9s\",%d,%3.2f\n",w_id,w_name,w_street_1,w_stre
et_2,w_city,w_state,w_zip,w_tax,w_ytd); */
                w_tax = random_number(0, 2000);

                /* record    :    : 96/09/06 fukui */

                w_id_1 = w_id / 256;
                w_id_2 = w_id % 256;
                w_tax_1 = w_tax / 256;
                w_tax_2 = w_tax % 256;
                w_ytd_1 = 0x00;   /* w_ytd:
+300000.00 */
                w_ytd_2 = 0x00;
                w_ytd_3 = 0x03;
                w_ytd_4 = 0x00;
                w_ytd_5 = 0x00;
                w_ytd_6 = 0x00;
                w_ytd_7 = 0x0c;

/*              fprintf(fst2,"%c%c%-10s%-20s%-
20s%-20s%-2s%-
9s%c%c%c%c%c%c%c%c",w_id_1,w_id_2,w_
name,w_street_1,w_street_2,w_city,w_state,w_zi
p,w_tax_1,w_tax_2,w_ytd_1,w_ytd_2,w_ytd_3,w_
ytd_4,w_ytd_5,w_ytd_6,w_ytd_7);

*/
                fprintf(fst2,"%c%c%-10s%-20s%-
20s%-20s%-2s%-9s%c%c%c%c%c%c%c%c",

w_id_2,w_id_1,w_name,w_street_1,w_street_2,w
_city,w_state,w_zip,

w_tax_2,w_tax_1,w_ytd_1,w_ytd_2,w_ytd_3,w_yt
d_4,w_ytd_5,w_ytd_6,w_ytd_7);

                filecount++;

        }

        /*              */
        fclose(fst2);

        /*              */
        return;

}

/*
 *      Function      : stock()
 *      Description : stock                .
 *      Parameters : 1. base_ware,
 *      Parameters : 2. last_ware,
 *      Grobals Ref : nothing
 *      Grobals Out         : nothing
 *      Returns             : nothing
 */

void
stock(base_ware,last_ware)
int     base_ware;
int     last_ware;
{
        /*      */
        short  sdatasiz;
        short  orig[MAXITEMS];
        int             pos;
        int             cnt;
        int             filecount = 1;
        int             outfilecount;
        char   filename[64];
        /* 1997-02-18  fprintf -> sprintf + fwrite      */
    int         stock_lpcnt                     ; /*
*/
    char        *stock_ap                       ; /*
*/
    char        *stock_cp                       ; /*
*/



        s_ytd = 0;
        s_order_cnt = 0;
        s_remote_cnt = 0;
        outfilecount = ((base_ware-1)/10) + 1;

        /*              */
        sprintf(filename , "%s\\Stock\\%d_%d"
,D_BASE, base_ware, last_ware);
        if ((fst3 = fopen(filename , "wb"))==NULL){
                printf("wttpcc: err: %s: can't create
file\n" , filename);
                exit(1);
        }

        /* 1997-02-18  fprintf -> sprintf + fwrite      */
    /* STOCK                                    */
    stock_ap = (char
*)malloc((size_t)STOCK_SIZE*STOCK_COUNT);
    if ( stock_ap == NULL )                     /*
*/
      {                                         /*
*/
        printf("Malloc failed.(stock)\n")       ; /*
*/
        exit(1)                                 ; /*
*/
      }                                         /*
*/
    stock_cp    = stock_ap                      ; /*
*/
    stock_lpcnt = 0                             ; /*
*/

        /* w_id                 count_ware              */
        for (s_w_id = base_ware; s_w_id <=
last_ware; s_w_id++){

                fprintf(stderr,"wttpcc: info: STOCK
%d/%d processing.\n" ,s_w_id, last_ware);

                /*      orig  MAXITEMS
          10                                    */
                memset(orig, 0, sizeof(orig));
                for (cnt = 0; cnt < (MAXSTOCK / 10);
cnt++) {
                        do {
                                pos = random_number(1,
MAXSTOCK);
                        } while (orig[pos - 1]);
                        orig[pos - 1] = 1;
                }
                /* s_i_id               , MAXSTOCK      */
                /* stock                                */
                for (s_i_id = 1; s_i_id <= MAXSTOCK;
s_i_id++) {

                        /* s_quantity          */
                        s_quantity =
random_number(10, 100);

                        /* s_dist_01 .. s_dist_10
*/
                        make_alpha_string(24, 24,
s_dist_01);
                        make_alpha_string(24, 24,
s_dist_02);
                        make_alpha_string(24, 24,
s_dist_03);
                        make_alpha_string(24, 24,
s_dist_04);
                        make_alpha_string(24, 24,
s_dist_05);
                        make_alpha_string(24, 24,
s_dist_06);
                        make_alpha_string(24, 24,
s_dist_07);
                        make_alpha_string(24, 24,
s_dist_08);
                        make_alpha_string(24, 24,
s_dist_09);
                        make_alpha_string(24, 24,
s_dist_10);

                        /* s_data       ,     10%
ORIGINAL          */
                        sdatasiz =
make_alpha_string(26, 50, s_data);
                        if (orig[s_i_id - 1]) {
                                pos = random_number(0,
sdatasiz - 8);
                                strncpy(&s_data[pos],
"ORIGINAL", 8);
                        }

                        /*              */
/*                      fprintf(fst3 ,"%d,%d,%d,\"%-
24s\",\"%-24s\",\"%-24s\",\"%-24s\",\"%-24s\",\"%-
24s\",\"%-24s\",\"%-24s\",\"%-24s\",\"%-
24s\",%d,%d,%d,\"%-50s\"\n",
s_i_id,s_w_id,s_quantity,s_dist_01,s_dist_02,s_di
st_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_r
emote_cnt,s_data); */

                        /* record    :    : 96/09/09 fukui
*/
                        s_i_id_1 = s_i_id / T256;
                        s_i_id_2 = (s_i_id - (s_i_id_1 *
T256)) / D256;
                        s_i_id_3 = (s_i_id -
(s_i_id_1*T256)-(s_i_id_2*D256)) / 256;
                        s_i_id_4 = s_i_id % T256;
                        s_w_id_1 = s_w_id / 256;
                        s_w_id_2 = s_w_id % 256;
                        s_quantity_1 = s_quantity / 256;
                        s_quantity_2 = s_quantity %
256;
                        s_ytd_1 = s_ytd / T256;
```

```
                    s_ytd_2 = (s_ytd -
(s_ytd_1*T256)) / D256;
                    s_ytd_3 = (s_ytd -
(s_ytd_1*T256)-(s_ytd_2*D256)) / 256;
                    s_ytd_4 = s_ytd % T256;
                    s_order_cnt_1 = s_order_cnt /
256;
                    s_order_cnt_2 = s_order_cnt %
256;
                    s_remote_cnt_1 =
s_remote_cnt / 256;
                    s_remote_cnt_2 =
s_remote_cnt % 256;

/*                  fprintf(fst3
,"%c%c%c%c%c%c%c%c%-24s%-24s%-24s%-
24s%-24s%-24s%-24s%-24s%-24s%-
24s%c%c%c%c%c%c%c%c%-50s",
s_i_id_1,s_i_id_2,s_i_id_3,s_i_id_4,s_w_id_1,s_w
_id_2,s_quantity_1,s_quantity_2,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_1,s_ytd_
2,s_ytd_3,s_ytd_4,s_order_cnt_1,s_order_cnt_2,s
_remote_cnt_1,s_remote_cnt_2,s_data);
*/
/*
                    fprintf(fst3
,"%c%c%c%c%c%c%c%c%-24s%-24s%-24s%-
24s%-24s%-24s%-24s%-24s%-24s%-
24s%c%c%c%c%c%c%c%c%-50s",

s_i_id_4,s_i_id_3,s_i_id_2,s_i_id_1,s_w_id_2,s_w
_id_1,s_quantity_2,s_quantity_1,

s_dist_01,s_dist_02,s_dist_03,s_dist_04,s_dist_0
5,s_dist_06,s_dist_07,s_dist_08,s_dist_09,s_dist_
10,

s_ytd_4,s_ytd_3,s_ytd_2,s_ytd_1,s_order_cnt_2,s
_order_cnt_1,s_remote_cnt_2,s_remote_cnt_1,s_
data);
*/
            /* 1997-02-18  fprintf -> sprintf + fwrite
*/
                    sprintf(stock_cp ,
                    "%c%c%c%c"
                    "%c%c"
                    "%c%c"
                    "%-24s%-24s%-24s%-24s%-
24s%-24s%-24s%-24s%-24s%-24s"
                    "%c%c%c%c"
                    "%c%c"
                    "%c%c"
                    "%-50s",
//
s_i_id_1,s_i_id_2,s_i_id_3,s_i_id_4,

s_i_id_4,s_i_id_3,s_i_id_2,s_i_id_1,
//                  s_w_id_1,s_w_id_2,
                    s_w_id_2,s_w_id_1,
//                  s_quantity_1,s_quantity_2,
                    s_quantity_2,s_quantity_1,

s_dist_01,s_dist_02,s_dist_03,s_dist_04,s_dist_0
5,

s_dist_06,s_dist_07,s_dist_08,s_dist_09,s_dist_1
0,
//
s_ytd_1,s_ytd_2,s_ytd_3,s_ytd_4,

s_ytd_4,s_ytd_3,s_ytd_2,s_ytd_1,
//                  s_order_cnt_1,s_order_cnt_2,
                    s_order_cnt_2,s_order_cnt_1,
//
s_remote_cnt_1,s_remote_cnt_2,

s_remote_cnt_2,s_remote_cnt_1,
                    s_data);

      stock_cp    = stock_cp    + STOCK_SIZE ;
      stock_lpcnt = stock_lpcnt + 1          ;

      if ( stock_lpcnt == STOCK_COUNT )
       {
       fwrite(stock_ap          ,
              (size_t)STOCK_SIZE  ,
              (size_t)STOCK_COUNT ,
              fst3)               ;
         stock_cp    = stock_ap    ;
         stock_lpcnt = 0           ;
       }

              }
              filecount++;
       }

       /* 1997-02-18  fprintf -> sprintf + fwrite   */
      if ( stock_lpcnt != 0 )
       {
       fwrite(stock_ap          ,
              (size_t)STOCK_SIZE  ,
              (size_t)stock_lpcnt ,
              fst3)               ;
       }

       /*                 */
       fclose(fst3);

   /*                 */
   free(stock_ap) ;

       /*                 */
       return;

}

/*
 *      Function      : district()
 *      Description   : district                .
 *      Parameters    : 1. base_ware,
 *      Parameters    : 2. last_ware,
 *      Grobals Ref   : nothing
 *      Grobals Out   : nothing
 *      Returns       : nothing
 */

void
district(base_ware,last_ware)
int     base_ware;
int     last_ware;
{
       /*      */
       long   d_10000 = 10000.0;
       int            filecount = 1;
       int            outfilecount;
       char   filename[64];

       d_ytd = 30000.00; /* record                */
       d_next_o_id = 3001;
       outfilecount = ((base_ware-1)/10) +1;

       /*              */
       sprintf(filename , "%s\\District\\%d_%d" ,
D_BASE, base_ware, last_ware);
       if ((fst4 = fopen(filename , "wb"))==NULL){
              printf("wttpcc: err: %s: can't create
file\n" , filename);
              exit(1);
       }

       /* w_id              , count_ware        */
       for (d_w_id = base_ware; d_w_id <=
last_ware; d_w_id++){

       /* d_id              , DIST_PER_WARE
*/
              for (d_id = 1; d_id <=
DIST_PER_WARE; d_id++) {

                     /* d_name        */
                     make_alpha_string(6, 10,
d_name);

                     /*                  */
                     make_address(d_street_1,
d_street_2, d_city, d_state, d_zip);

                     /* d_tax         */
                     d_tax = random_number(0,
2000);
/*                   d_tax /= d_10000;*/

                     /*            */
/*                   fprintf(fst4 ,"%d,%d,\"%-
10s\",\"%-20s\",\"%-20s\",\"%-20s\",\"%-2s\",\"%-
9s\",%d,%3.2f,%d\n",d_id,d_w_id,d_name,d_street
_1,d_street_2,d_city,d_state,d_zip,d_tax,d_ytd,d_
next_o_id); */

                     /* record    :     : 96-09-06 fukui
*/
                     d_id_1 = d_id / 256;
                     d_id_2 = d_id % 256;
                     d_w_id_1 = d_w_id / 256;
                     d_w_id_2 = d_w_id % 256;
                     d_tax_1 = d_tax / 256;
                     d_tax_2 = d_tax % 256;
                     d_ytd_1 = 0x00;    /* d_ytd:
30000.00 */
                     d_ytd_2 = 0x00;
                     d_ytd_3 = 0x00;
                     d_ytd_4 = 0x30;
                     d_ytd_5 = 0x00;
                     d_ytd_6 = 0x00;
                     d_ytd_7 = 0x0c;
                     d_next_o_id_1 = d_next_o_id /
T256;
                     d_next_o_id_2 = (d_next_o_id-
(d_next_o_id_1*T256))/D256;
                     d_next_o_id_3 = (d_next_o_id-
(d_next_o_id_1*T256)-
(d_next_o_id_2*D256))/256;
```

```
                        d_next_o_id_4 = d_next_o_id %
T256;

/*                      fprintf(fst4 ,"%c%c%c%c%-
10s%-20s%-20s%-20s%-2s%-
9s%c%c%c%c%c%c%c%c%c%c%c%c",d_id_1
,d_id_2,d_w_id_1,d_w_id_2,d_name,d_street_1,d
_street_2,d_city,d_state,d_zip,d_tax_1,d_tax_2,d_
ytd_1,d_ytd_2,d_ytd_3,d_ytd_4,d_ytd_5,d_ytd_6,d
_ytd_7,d_next_o_id_1,d_next_o_id_2,d_next_o_id
_3,d_next_o_id_4);
*/
                        fprintf(fst4 ,"%c%c%c%c%c%-
10s%-20s%-20s%-20s%-2s%-
9s%c%c%c%c%c%c%c%c%c%c%c%c%c",

d_id_2,d_id_1,d_w_id_2,d_w_id_1,d_name,d_stre
et_1,d_street_2,d_city,d_state,d_zip,

d_tax_2,d_tax_1,d_ytd_1,d_ytd_2,d_ytd_3,d_ytd_
4,d_ytd_5,d_ytd_6,d_ytd_7,

d_next_o_id_4,d_next_o_id_3,d_next_o_id_2,d_n
ext_o_id_1);


                }
                filecount++;
        }

        /*              */
        fclose(fst4);

        /*              */
        return;

}

/*
 *      Function      : customer()
 *      Description   : customer, history
.
 *      Parameters : 1. base_ware,
 *      Parameters : 2. last_ware,
 *      Grobals Ref : yyyymmddhhmmss,
 *      Grobals Out         : nothing
 *      Returns             : nothing
 */

void
customer(base_ware,last_ware)
int     base_ware;
int     last_ware;
{
        /*      */
        long            d_10000 = 1000.0;
        long            d_100 = 100.0;
        int                     filecount = 1;
        int                     outfilecount;
        char            filename1[64];
        char            filename2[64];
        /* 1997-02-18  fprintf -> sprintf + fwrite      */
    int         customer_lpcnt                  ; /*
*/
    char        *customer_ap                    ; /*
*/
    char        *customer_cp                    ; /*
*/
    int         history_lpcnt                   ; /*
*/
    char        *history_ap                     ; /*
*/
    char        *history_cp                     ; /*
*/


        c_credit_lim = 50000.00;        /* record
,          */
        c_balance = -10.00;                     /*
record      ,           */
        c_ytd_payment = 10.00;          /* record
,          */
/*    980803 K.Sugiyama         "1" --> "0"       */
//      c_payment_cnt = 1;
        c_payment_cnt = 0;
/*    980803 K.Sugiyama         "1" --> "0"       */
        c_delivery_cnt = 0;
        strcpy(c_middle, "OE");
        strcpy(c_since, yyyymmddhhmmss);

        h_amount = 10;
        strcpy(h_date, yyyymmddhhmmss);

        outfilecount = ((base_ware-1)/10) +1;
        /*              */
        sprintf(filename1 , "%s\\Customer\\%d_%d" ,
D_BASE, base_ware, last_ware);
        if ((fst5 = fopen(filename1 , "wb"))==NULL){
                printf("wttpcc: err: %s: can't create
file\n" , filename1);
                exit(1);
        }
        sprintf(filename2 , "%s\\History\\%d_%d" ,
D_BASE, base_ware, last_ware);
        if ((fst6 = fopen(filename2 , "wb"))==NULL){
                printf("wttpcc: err: %s: can't create
file\n" , filename2);
                exit(1);
        }

        /* 1997-02-18  fprintf -> sprintf + fwrite      */
    /* CUSTOMER                                 */
    /* HISTORY                                  */
    customer_ap = (char
*)malloc((size_t)(CUSTOMER_SIZE*CUSTOMER
_COUNT)
                                +
(HISTORY_SIZE*HISTORY_COUNT)+4096+4  );
    if ( customer_ap == NULL )                  /*
*/
      {                                         /*
*/
        printf("Malloc failed.(customer)\n")     ; /*
*/
        exit(1)                                 ; /*
*/
      }                                         /*
*/
    history_ap     = customer_ap +
(CUSTOMER_SIZE*CUSTOMER_COUNT)+4 ;
    customer_cp    = customer_ap                ; /*
*/
    history_cp     = history_ap                 ; /*
*/
    customer_lpcnt = 0                          ; /*
*/
    history_lpcnt  = 0                          ; /*
*/

        /* w_id             count_ware          */
        for (c_w_id = base_ware; c_w_id <=
last_ware; c_w_id++){

                fprintf(stderr,"wttpcc: info:
HISTORY/CUSTOMER %d/%d processing.\n"

,c_w_id, last_ware);


                /* d_id             DIST_PER_WARE
*/
                for (c_d_id = 1; c_d_id <=
DIST_PER_WARE; c_d_id++){

                        /* c_id
CUST_PER_DIST         */
                        /* coustomer, history
*/
                        for (c_id = 1; c_id <=
CUST_PER_DIST; c_id++) {

                                h_c_w_id = c_w_id;
                                h_c_d_id = c_d_id;
                                h_c_id = c_id;
                                h_w_id = c_w_id;
        /*      97-02-18 */
                                h_d_id = c_d_id;
        /*      97-02-18 */

                                make_alpha_string(8, 16,
c_first);

                        /* 1997-02-18 TAB ID 221(c_last
NURand     C)          */
                                /*      1000            ,
2000      */
                                /*          lastname
c_last          */
                                if (c_id <= 1000) {
                                        lastname(c_id - 1,
c_last);
                                } else {

        lastname(nurand(255, 0, 999,C_LOAD),
c_last);
                                }

                                /*     ,                        */

        make_address(c_street_1, c_street_2,
c_city, c_state, c_zip);

                                make_number_string(16,
16, c_phone);

                                /* c_credit          10%
BC, 90%  GC          */
                                if (random_number(0, 9))
{
                                        strcpy(c_credit,
"GC");
                                } else {
                                        strcpy(c_credit,
"BC");
```

```
                                }

                                /* c_discount          */
                                c_discount =
random_number(0, 5000);
/*                              c_discount /=  d_10000;*/

                                /* c_data          */
                                make_alpha_string(300,
500, c_data);

                                /* h_data          */
                                make_alpha_string(12,
24, h_data);

                                /*             */
/*                              fprintf(fst5
,"%d,%d,%d,\"%-16s\",\"%-2s\",\"%-16s\",\"%-
20s\",\"%-20s\",\"%-20s\",\"%-2s\",\"%-9s\",\"%-
16s\",\"%-14s\",\"%-
2s\",%3.2f,%d,%3.2f,%3.2f,%d,%d,\"%-
500s\"\n",c_id,c_d_id,c_w_id,c_first,c_middle,c_la
st,c_street_1,c_street_2,c_city,c_state,c_zip,c_ph
one,c_since,c_credit,c_credit_lim,c_discount,c_ba
lance,c_ytd_payment,c_payment_cnt,c_delivery_c
nt,c_data); */

/*                              fprintf(fst6
,"%d,%d,%d,%d,%d,\"%-14s\",%d,\"%-
24s\"\n",h_c_id,h_c_d_id,h_c_w_id,h_d_id,h_w_id,
h_date,h_amount,h_data); */

                                /* record    :     : 96/09/09
fukui */
                                /* record    :     : 96/09/09
fukui */
                /*
                                c_id_1 = c_id / 256;
                                c_id_2 = c_id % 256;
                */
                /* 97-02-18 c_id         short -> int */
                                c_id_1 = c_id / T256;
                                c_id_2 = (c_id - (c_id_1 *
T256)) / D256;
                                c_id_3 = (c_id - (c_id_1 *
T256) - (c_id_2 * D256)) / 256;
                                c_id_4 = c_id % T256;

                                c_d_id_1 = c_d_id / 256;
                                c_d_id_2 = c_d_id % 256;
                                c_w_id_1 = c_w_id / 256;
                                c_w_id_2 = c_w_id %
256;
                                c_credit_lim_1 = 0x00;   /*
c_credit_lim: +50000.00 */
                                c_credit_lim_2 = 0x00;
                                c_credit_lim_3 = 0x00;
                                c_credit_lim_4 = 0x50;
                                c_credit_lim_5 = 0x00;
                                c_credit_lim_6 = 0x00;
                                c_credit_lim_7 = 0x0c;
                                c_discount_1 =
c_discount / 256;
                                c_discount_2 =
c_discount % 256;
                                c_balance_1 = 0x00;
        /* c_balance: -10.00 */
                                c_balance_2 = 0x00;
                                c_balance_3 = 0x00;
                                c_balance_4 = 0x00;
                                c_balance_5 = 0x01;
                                c_balance_6 = 0x00;
                                c_balance_7 = 0x0d;
                                c_ytd_payment_1 = 0x00;
        /* c_ytd_payment: +10.00 */
                                c_ytd_payment_2 = 0x00;
                                c_ytd_payment_3 = 0x00;
                                c_ytd_payment_4 = 0x00;
                                c_ytd_payment_5 = 0x01;
                                c_ytd_payment_6 = 0x00;
                                c_ytd_payment_7 = 0x0c;
                                c_payment_cnt_1 =
c_payment_cnt / 256;
                                c_payment_cnt_2 =
c_payment_cnt % 256;
                                c_delivery_cnt_1 =
c_delivery_cnt / 256;
                                c_delivery_cnt_2 =
c_delivery_cnt % 256;

                /* 97-02-18 h_c_id         short -> int */
                                h_c_id_1= h_c_id / T256;
                                h_c_id_2=(h_c_id -
(h_c_id_1 * T256)) / D256;
                                h_c_id_3=(h_c_id -
(h_c_id_1 * T256) - (h_c_id_2 * D256))/256;
                                h_c_id_4= h_c_id %
T256;

                                h_c_d_id_1 = h_c_d_id /
256;
                                h_c_d_id_2 = h_c_d_id %
256;
                                h_c_w_id_1 = h_c_w_id /
256;
                                h_c_w_id_2 = h_c_w_id
% 256;
                                h_d_id_1 = h_d_id / 256;
                                h_d_id_2 = h_d_id % 256;
                                h_w_id_1 = h_w_id / 256;
                                h_w_id_2 = h_w_id %
256;
                                h_amount_1 = h_amount
/ T256;
                                h_amount_2 =
(h_amount-(h_amount_1*T256))/D256;
                                h_amount_3 =
(h_amount-(h_amount_1*T256)-
(h_amount_2*D256))/D256;
                                h_amount_4 = h_amount
% T256;

/*                              fprintf(fst5
,"%c%c%c%c%c%c%c-16s%-2s%-16s%-20s%-
20s%-20s%-2s%-9s%-16s%-14s%-
2s%c%c%c%c%c%c%c%c%c%c%c%c%c%c%c%
c%c%c%c%c%c%c%c%c%c%c%c%-
500s",c_id_1,c_id_2,c_d_id_1,c_d_id_2,c_w_id_1,
c_w_id_2,c_first,c_middle,c_last,c_street_1,c_stre
et_2,c_city,c_state,c_zip,c_phone,c_since,c_credi
t,c_credit_lim_1,c_credit_lim_2,c_credit_lim_3,c_c
redit_lim_4,c_credit_lim_5,c_credit_lim_6,c_credit
_lim_7,c_discount_1,c_discount_2,c_balance_1,c
_balance_2,c_balance_3,c_balance_4,c_balance_
5,c_balance_6,c_balance_7,c_ytd_payment_1,c_y
td_payment_2,c_ytd_payment_3,c_ytd_payment_
4,c_ytd_payment_5,c_ytd_payment_6,c_ytd_pay
ment_7,c_payment_cnt_1,c_payment_cnt_2,c_del
ivery_cnt_1,c_delivery_cnt_2,c_data);

                                fprintf(fst6
,"%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_d_id_1,h_c_d_id_2,h
_c_w_id_1,h_c_w_id_2,h_d_id_1,h_d_id_2,h_w_id
_1,h_w_id_2,h_date,h_amount_1,h_amount_2,h_
amount_3,h_amount_4,h_data);
*/
/*
                                fprintf(fst5
,"%c%c%c%c%c%c%c-16s%-2s%-16s%-20s%-
20s%-20s%-2s%-9s%-16s%-14s%-
2s%c%c%c%c%c%c%c%c%c%c%c%c%c%c%c%
c%c%c%c%c%c%c%c%c%c%c%c%-500s",

c_id_2,c_id_1,c_d_id_2,c_d_id_1,c_w_id_2,c_w_i
d_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_cr
edit_lim_4,c_credit_lim_5,c_credit_lim_6,c_credit_
lim_7,

c_discount_2,c_discount_1,c_balance_1,c_balanc
e_2,c_balance_3,c_balance_4,c_balance_5,c_bal
ance_6,c_balance_7,

c_ytd_payment_1,c_ytd_payment_2,c_ytd_payme
nt_3,c_ytd_payment_4,c_ytd_payment_5,c_ytd_p
ayment_6,c_ytd_payment_7,

c_payment_cnt_2,c_payment_cnt_1,c_delivery_cn
t_2,c_delivery_cnt_1,c_data);

                                fprintf(fst6
,"%c%c%c%c%c%c%c%c%c%c%c%-
14s%c%c%c%c%-24s",

h_c_id_2,h_c_id_1,h_c_d_id_2,h_c_d_id_1,h_c_w
_id_2,h_c_w_id_1,h_d_id_2,h_d_id_1,h_w_id_2,h
_w_id_1,

h_date,h_amount_4,h_amount_3,h_amount_2,h_a
mount_1,h_data);
*/
                /* 97-02-18 c_id         short -> int */
                        /* 1997-02-18  fprintf -> sprintf +
fwrite      */
                                sprintf(customer_cp ,
                        "%c%c%c%c"
                        "%c%c"
                        "%c%c"
                        "%-16s%-2s%-16s"
                        "%-20s%-20s%-20s%-2s%-9s"
                        "%-16s%-14s"
                        "%-2s"
                        "%c%c%c%c%c%c%c"
                        "%c%c"
                        "%c%c%c%c%c%c%c"
                        "%c%c%c%c%c%c%c"
                        "%c%c"
                        "%c%c"
                        "%-500s",
```

```
//
        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_ap ;
                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,
 *      Grobals Ref: yyyymmddhhmmss,
 *      Grobals 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);
```

```
        if ((fst7 = fopen(filename1 , "wb"))==NULL){
                printf("wttpcc: err: %s: can't create
file\n" , filename1);
                exit(1);
        }
        sprintf(filename2 , "%s\\NewOrder\\%d_%d"
, D_BASE, base_ware, last_ware);
        if ((fst8 = fopen(filename2 , "wb"))==NULL){
                printf("wttpcc: err: %s: can't create
file\n" , filename2);
                exit(1);
        }
        sprintf(filename3 , "%s\\OrderLine\\%d_%d"
, D_BASE, base_ware, last_ware);
        if ((fst9 = fopen(filename3 , "wb"))==NULL){
                printf("wttpcc: err: %s: can't create
file\n" , filename3);
                exit(1);
        }

        /* 1997-02-18  fprintf -> sprintf + fwrite      */
    /* ORDERS                                   */
    /* ORDERLINE                                */
    orders_ap = (char
*)malloc((size_t)(ORDERS_SIZE*ORDERS_COU
NT)
                                +
(ORDERLINE_SIZE*ORDERLINE_COUNT)+4096
);
    if ( orders_ap == NULL )                    /*
*/
      {                                         /*
*/
        printf("Malloc failed.(orders)\n")      ; /*
*/
        exit(1)                                 ; /*
*/
      }                                         /*
*/
    orderline_ap    = orders_ap +
(ORDERS_SIZE*ORDERS_COUNT) ;
    orders_cp       = orders_ap                 ; /*
*/
    orderline_cp    = orderline_ap              ; /*
*/
    orders_lpcnt    = 0                         ; /*
*/
    orderline_lpcnt = 0                         ; /*
*/


        /* w_id              , count_ware          */
        for (w_id = base_ware; w_id <= last_ware;
w_id++){

                fprintf(stderr,"wttpcc: info:
ORDERS/ORDERLINE/NEWORDER %d/%d
processing.\n"

,w_id, last_ware);

                /* d_id              , DIST_PER_WARE
*/
                for (d_id = 1; d_id <=
DIST_PER_WARE; d_id++) {

                        /* o_c_id
*/
                        init_permutation();


        /* o_id  1-ORD_PER_DIST              ,
ORD_PER_DIST    */
        /* orders                           */
                        for (o_id = 1; o_id <=
ORD_PER_DIST; o_id++) {

                                no_o_id = o_id;
                                no_w_id = w_id;
                                no_d_id = d_id;
                                o_id = o_id;
                                o_w_id = w_id;
                                o_d_id = d_id;
                                o_ol_cnt =
random_number(5, 15);
                                strcpy(o_entry_d,
yyyymmddhhmmss);
                                ol_o_id = o_id;
                                ol_w_id = w_id;
                                ol_d_id = d_id;
                                ol_supply_w_id = w_id;


                                /* o_c_id
1997-02-18 */
                /* o_c_id           init_permutation
*/
                /*        1  CUST_PER_DIST
. */
                        /*
*/
                counter++;
                /* ocid  counter-1
*/
                                o_c_id = ocid[counter - 1]
;

                                /* o_id>2100     ,         */
                                /*             ,
new_order */
                                if (o_id >
(ORD_PER_DIST - NEWORDS)){
                                        /* ocarrier_id
*/
                                        /*      o_carrier_id =
0x00;*/       /* NULL   */
                                        /* ordes          */
/*                                      fprintf(fst7
,"%d,%d,%d,%d,\"%-14s\",,%d,%d\n",
        o_id,o_d_id,o_w_id,o_c_id,o_entry_d,o_ol_c
nt,o_all_local);    */

                                        /* orders record    :
: 96/09/09 fukui */
                                        /* (  NULL    ) */
                                        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 =
0x00;
                                        o_carrier_id_2 =
0x00;
                                        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%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,
NUL_V,NUL_V,o_carrier_id_1,o_carrier_id_2,NNU
L_V,NNUL_V,o_ol_cnt_1,o_ol_cnt_2,NNUL_V,NN
UL_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%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_id_1,N
NUL_V,NNUL_V,o_d_id_2,o_d_id_1,NNUL_V,NN
UL_V,

o_w_id_2,o_w_id_1,NNUL_V,NNUL_V,o_c_id_2,o
_c_id_1,NNUL_V,NNUL_V,o_entry_d,NUL_V,NUL
_V,

o_carrier_id_2,o_carrier_id_1,NNUL_V,NNUL_V,o
_ol_cnt_2,o_ol_cnt_1,NNUL_V,NNUL_V,
                o_all_local_2,o_all_local_1);
*/

                /* 97-02-18 o_c_id         short->int  */
                        /* 1997-02-18  fprintf -> sprintf +
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_id_4,

        NNUL_V,NNUL_V,o_id_4,o_id_3,o_id_2,o_id_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_id_3,o_c_id_4,

        NNUL_V,NNUL_V,o_c_id_4,o_c_id_3,o_c_id_2,o_c_id_1,

        NNUL_V,NNUL_V,o_entry_d,
//                                              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",no_o_id_1,no_o_id_2,no_o_id_3,no_o_id_4,no_d_id_1,no_d_id_2,no_w_id_1,no_w_id_2);
*/
                                fprintf(fst8
,"%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_carrier_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%c%c%c%c%c%c%c%c%-
14s%c%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_id_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,NNUL_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%c%c%c%c%c%c%c%c%-
14s%c%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_id_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,NNUL_V,NNUL_V,o_c_id_2,o_c_id_1,

        NNUL_V,NNUL_V,o_entry_d,NNUL_V,NNUL_V,o_carrier_id_2,o_carrier_id_1,

        NNUL_V,NNUL_V,o_ol_cnt_2,o_ol_cnt_1,NNUL_V,NNUL_V,o_all_local_2,o_all_local_1);
*/
                /* 97-02-18 o_c_id        short->int  */
                        /* 1997-02-18  fprintf -> sprintf +
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_id_4,

        NNUL_V,NNUL_V,o_id_4,o_id_3,o_id_2,o_id_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_id_3,o_c_id_4,

        NNUL_V,NNUL_V,o_c_id_4,o_c_id_3,o_c_id_2,o_c_id_1,

        NNUL_V,NNUL_V,o_entry_d,
//
        NNUL_V,NNUL_V,o_carrier_id_1,o_carrier_id_2,

        NNUL_V,NNUL_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
;

                                }

                /* 1997-02-18  fprintf -> sprintf + fwrite
*/
             if ( orders_lpcnt == ORDERS_COUNT )
               {
                fwrite(orders_ap          ,
                       (size_t)ORDERS_SIZE ,
                       (size_t)ORDERS_COUNT,
                       fst7)              ;
                 orders_cp    = orders_ap   ;
                 orders_lpcnt = 0           ;
               }


                                /* ol_number
,o_olcnt     */
                                /* order_line
*/
                                for (ol_number = 1;
ol_number <= o_ol_cnt; ol_number++) {

                                        /* ol_i_id,
ol_dist_info           */
                                        /* ol_i_id =
random_number(1, MAXITEMS); */

/*     :961127:K.Fukui: I_ID         (main      ) */

                                        ol_i_id =
random_number( 1, MAXSTOCK / I_ID_Rand_by
);
                                        ol_i_id = ol_i_id *
I_ID_Rand_by;

#ifdef DEBUG
        printf( "wttpcc: TPCRANDBY: debug: ol_i_id
= %d\n",ol_i_id);
#endif

/*     :961127:K.Fukui: (above is all) */


        make_alpha_string(24, 24, ol_dist_info);

                                        /* o_id>2100      */
                                        /* ol_amount       */
                                        /*              ,          */
                                        if (o_id >
(CUST_PER_DIST - NEWORDS)){
                                                ol_amount =
random_number(1, 999999);
                                        /*      ol_amount /=
d_100;  */
                                        /*      ol_delivery_d
= NULL;*/
                                        /* orderline
*/
/*                                      fprintf(fst9
,"%d,%d,%d,%d,%d,%d,,%d,%d,\"%-24s\"\n",
        ol_o_id,ol_d_id,ol_w_id,ol_number,ol_i_id,ol
_supply_w_id,
        ol_quantity,ol_amount,ol_dist_info); */

                                        /* orderline record
:     : 96/09/09 fukui */
                                                ol_o_id_1 =
ol_o_id / T256;
                                                ol_o_id_2 =
(ol_o_id-(ol_o_id_1*T256))/D256;
                                                ol_o_id_3 =
(ol_o_id-(ol_o_id_1*T256)-(ol_o_id_2*D256))/256;
                                                ol_o_id_4 =
ol_o_id % T256;
                                                ol_d_id_1 =
ol_d_id / 256;
                                                ol_d_id_2 =
ol_d_id % 256;
                                                ol_w_id_1 =
ol_w_id / 256;
                                                ol_w_id_2 =
ol_w_id % 256;
                                                ol_number_1
= ol_number / 256;
                                                ol_number_2
= ol_number % 256;
                                                ol_i_id_1 =
ol_i_id / T256;
                                                ol_i_id_2 =
(ol_i_id-(ol_i_id_1*T256))/D256;
                                                ol_i_id_3 =
(ol_i_id-(ol_i_id_1*T256)-(ol_i_id_2*D256))/256;
                                                ol_i_id_4 =
ol_i_id % T256;

        ol_supply_w_id_1 = ol_supply_w_id / 256;

        ol_supply_w_id_2 = ol_supply_w_id % 256;
                                                ol_quantity_1
= ol_quantity / 256;
                                                ol_quantity_2
= ol_quantity % 256;
                                                ol_amount_1
= ol_amount / T256;
                                                ol_amount_2
= (ol_amount-(ol_amount_1*T256))/D256;
                                                ol_amount_3
= (ol_amount-(ol_amount_1*T256)-
(ol_amount_2*D256))/256;
                                                ol_amount_4
= ol_amount % T256;

/*                                      fprintf(fst9
,"%c%c%c%c%c%c%c%c%c%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%-24s",
        NNUL_V,NNUL_V,ol_o_id_1,ol_o_id_2,ol_o
_id_3,ol_o_id_4,NNUL_V,NNUL_V,ol_d_id_1,ol_d
_id_2,NNUL_V,NNUL_V,ol_w_id_1,ol_w_id_2,NN
UL_V,NNUL_V,ol_number_1,ol_number_2,NNUL_
V,NNUL_V,ol_i_id_1,ol_i_id_2,ol_i_id_3,ol_i_id_4,
NNUL_V,NNUL_V,ol_supply_w_id_1,ol_supply_w
_id_2,NUL_V,NUL_V,ol_delivery_d,NNUL_V,NNU
L_V,ol_quantity_1,ol_quantity_2,NNUL_V,NNUL_
V,ol_amount_1,ol_amount_2,ol_amount_3,ol_amo
unt_4,NNUL_V,NNUL_V,ol_dist_info);
*/
/*
                                        fprintf(fst9
,"%c%c%c%c%c%c%c%c%c%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%-24s",

        NNUL_V,NNUL_V,ol_o_id_4,ol_o_id_3,ol_o
_id_2,ol_o_id_1,NNUL_V,NNUL_V,ol_d_id_2,ol_d
_id_1,

        NNUL_V,NNUL_V,ol_w_id_2,ol_w_id_1,NN
UL_V,NNUL_V,ol_number_2,ol_number_1,

        NNUL_V,NNUL_V,ol_i_id_4,ol_i_id_3,ol_i_i
d_2,ol_i_id_1,

        NNUL_V,NNUL_V,ol_supply_w_id_2,ol_sup
ply_w_id_1,NUL_V,NUL_V,ol_delivery_d,

        NNUL_V,NNUL_V,ol_quantity_2,ol_quantity
_1,NNUL_V,NNUL_V,

        ol_amount_4,ol_amount_3,ol_amount_2,ol_
amount_1,NNUL_V,NNUL_V,ol_dist_info);
*/
                        /* 1997-02-18  fprintf -> sprintf +
fwrite   */

        sprintf(orderline_cp ,
                "%c%c""%c%c%c%c"
                "%c%c""%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""%-24s",
//
NNUL_V,NNUL_V,ol_o_id_1,ol_o_id_2,ol_o_id_3,
ol_o_id_4,

NNUL_V,NNUL_V,ol_o_id_4,ol_o_id_3,ol_o_id_2,
ol_o_id_1,
//
NNUL_V,NNUL_V,ol_d_id_1,ol_d_id_2,

NNUL_V,NNUL_V,ol_d_id_2,ol_d_id_1,
//
NNUL_V,NNUL_V,ol_w_id_1,ol_w_id_2,

NNUL_V,NNUL_V,ol_w_id_2,ol_w_id_1,
//
NNUL_V,NNUL_V,ol_number_1,ol_number_2,

NNUL_V,NNUL_V,ol_number_2,ol_number_1,
//
NNUL_V,NNUL_V,ol_i_id_1,ol_i_id_2,ol_i_id_3,ol
_i_id_4,
```

```
NNUL_V,NNUL_V,ol_i_id_4,ol_i_id_3,ol_i_id_2,ol_i_id_1,
//
NNUL_V,NNUL_V,ol_supply_w_id_1,ol_supply_w_id_2,

NNUL_V,NNUL_V,ol_supply_w_id_2,ol_supply_w_id_1,
                NUL_V ,NUL_V ,ol_delivery_d,
//
NNUL_V,NNUL_V,ol_quantity_1,ol_quantity_2,

NNUL_V,NNUL_V,ol_quantity_2,ol_quantity_1,
                NNUL_V,NNUL_V,
//
ol_amount_1,ol_amount_2,ol_amount_3,ol_amount_4,

ol_amount_4,ol_amount_3,ol_amount_2,ol_amount_1,
                NNUL_V,NNUL_V,ol_dist_info);

                orderline_cp    = orderline_cp    + ORDERLINE_SIZE ;
                orderline_lpcnt = orderline_lpcnt + 1             ;

                                } else {
                                        ol_amount = 0;

        strcpy(ol_delivery_d, yyyy mmddhhmmss);
                                /* orderline */
/*                                      fprintf(fst9 ,"%d,%d,%d,%d,%d,%d,\"%-14s\",%d,%d,\"%-24s\"\n",
        ol_o_id,ol_d_id,ol_w_id,ol_number,ol_i_id,ol_supply_w_id,
        ol_delivery_d,ol_quantity,ol_amount,ol_dist_info); */

                                        /* orderline record    :    : 96/09/09 fukui */

                                        ol_o_id_1 = ol_o_id / T256;
                                        ol_o_id_2 = (ol_o_id-(ol_o_id_1*T256))/D256;
                                        ol_o_id_3 = (ol_o_id-(ol_o_id_1*T256)-(ol_o_id_2*D256))/256;
                                        ol_o_id_4 = ol_o_id % T256;
                                        ol_d_id_1 = ol_d_id / 256;
                                        ol_d_id_2 = ol_d_id % 256;
                                        ol_w_id_1 = ol_w_id / 256;
                                        ol_w_id_2 = ol_w_id % 256;
                                        ol_number_1 = ol_number / 256;
                                        ol_number_2 = ol_number % 256;
                                        ol_i_id_1 = ol_i_id / T256;
                                        ol_i_id_2 = (ol_i_id-(ol_i_id_1*T256))/D256;
                                        ol_i_id_3 = (ol_i_id-(ol_i_id_1*T256)-(ol_i_id_2*D256))/256;
                                        ol_i_id_4 = ol_i_id % T256;

        ol_supply_w_id_1 = ol_supply_w_id / 256;

        ol_supply_w_id_2 = ol_supply_w_id % 256;
                                        ol_quantity_1 = ol_quantity / 256;
                                        ol_quantity_2 = ol_quantity % 256;
                                        ol_amount_1 = ol_amount / T256;
                                        ol_amount_2 = (ol_amount-(ol_amount_1*T256))/D256;
                                        ol_amount_3 = (ol_amount-(ol_amount_1*T256)-(ol_amount_2*D256))/256;
                                        ol_amount_4 = ol_amount % T256;

/*                                      fprintf(fst9 ,"%c%c%c%c%c%c%c%c%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%-24s",
        NNUL_V,NNUL_V,ol_o_id_1,ol_o_id_2,ol_o_id_3,ol_o_id_4,NNUL_V,NNUL_V,ol_d_id_1,ol_d_id_2,NNUL_V,NNUL_V,ol_w_id_1,ol_w_id_2,NNUL_V,NNUL_V,ol_number_1,ol_number_2,NNUL_V,NNUL_V,ol_i_id_1,ol_i_id_2,ol_i_id_3,ol_i_id_4,NNUL_V,NNUL_V,ol_supply_w_id_1,ol_supply_w_id_2,NNUL_V,NNUL_V,ol_delivery_d,NNUL_V,NNUL_V,ol_quantity_1,ol_quantity_2,NNUL_V,NNUL_V,ol_amount_1,ol_amount_2,ol_amount_3,ol_amount_4,NNUL_V,NNUL_V,ol_dist_info);
*/
/*
                                        fprintf(fst9 ,"%c%c%c%c%c%c%c%c%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%-24s",

        NNUL_V,NNUL_V,ol_o_id_4,ol_o_id_3,ol_o_id_2,ol_o_id_1,NNUL_V,NNUL_V,ol_d_id_2,ol_d_id_1,

        NNUL_V,NNUL_V,ol_w_id_2,ol_w_id_1,NNUL_V,NNUL_V,ol_number_2,ol_number_1,

        NNUL_V,NNUL_V,ol_i_id_4,ol_i_id_3,ol_i_id_2,ol_i_id_1,NNUL_V,NNUL_V,

        ol_supply_w_id_2,ol_supply_w_id_1,NNUL_V,NNUL_V,ol_delivery_d,NNUL_V,NNUL_V,

        ol_quantity_2,ol_quantity_1,NNUL_V,NNUL_V,ol_amount_4,ol_amount_3,ol_amount_2,ol_amount_1,

        NNUL_V,NNUL_V,ol_dist_info);
*/
                        /* 1997-02-18  fprintf -> sprintf + fwrite   */

        sprintf(orderline_cp ,
                "%c%c""%c%c%c%c"
                "%c%c""%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""%-24s",
//
NNUL_V,NNUL_V,ol_o_id_1,ol_o_id_2,ol_o_id_3,ol_o_id_4,

NNUL_V,NNUL_V,ol_o_id_4,ol_o_id_3,ol_o_id_2,ol_o_id_1,
//
NNUL_V,NNUL_V,ol_d_id_1,ol_d_id_2,

NNUL_V,NNUL_V,ol_d_id_2,ol_d_id_1,
//
NNUL_V,NNUL_V,ol_w_id_1,ol_w_id_2,

NNUL_V,NNUL_V,ol_w_id_2,ol_w_id_1,
//
NNUL_V,NNUL_V,ol_number_1,ol_number_2,

NNUL_V,NNUL_V,ol_number_2,ol_number_1,
//
NNUL_V,NNUL_V,ol_i_id_1,ol_i_id_2,ol_i_id_3,ol_i_id_4,

NNUL_V,NNUL_V,ol_i_id_4,ol_i_id_3,ol_i_id_2,ol_i_id_1,
//
NNUL_V,NNUL_V,ol_supply_w_id_1,ol_supply_w_id_2,

NNUL_V,NNUL_V,ol_supply_w_id_2,ol_supply_w_id_1,
                NNUL_V,NNUL_V,ol_delivery_d,
//
NNUL_V,NNUL_V,ol_quantity_1,ol_quantity_2,

NNUL_V,NNUL_V,ol_quantity_2,ol_quantity_1,
                NNUL_V,NNUL_V,
//
ol_amount_1,ol_amount_2,ol_amount_3,ol_amount_4,

ol_amount_4,ol_amount_3,ol_amount_2,ol_amount_1,
                NNUL_V,NNUL_V,ol_dist_info);

                orderline_cp    = orderline_cp    + ORDERLINE_SIZE ;
                orderline_lpcnt = orderline_lpcnt + 1 ;

                                }
            /* 1997-02-18  fprintf -> sprintf + fwrite */
            if ( orderline_lpcnt == ORDERLINE_COUNT )
                {
                 fwrite(orderline_ap          ,
                        (size_t)ORDERLINE_SIZE  ,
```

```
                    (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  rnum;

        /*                          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;
                }
/*   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
        }
        /*                  */
        str[len] = '\0';

        /*                                      */
        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)
--  +-------------------------------------+
--  | sqllen        short                 |
--  +-sqlver-----------------------------+  ---
--  | #RESULT_O_IDn     CHAR(9)          |  |
--  +-------------------------------------+  |
--  |                 CHAR(1) "/"        |  |
--  +-------------------------------------+  ---
--
--  +-------------------------------------+
--
--
--
************************************************************
********************
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:
```

```
        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)
-- +---------------------------------------+
-- | sqllen        short               |
-- +-sqlver------------------------------+ ---
-- | S_QUANTITYn     CHAR(6)          | |
-- +---------------------------------------+ |
-- | S_DISTn         CHAR(24)         | |
-- +---------------------------------------+ |
-- | S_DATAn         CHAR(50)         | |
-- +---------------------------------------+ |
-- |               CHAR(1) "/"        | |
-- +---------------------------------------+ ---
-- |                                 |
--
-- +---------------------------------------+
--
--
--
-- #I_JOIN                  VARCHAR(1215)
-- +---------------------------------------+
-- | sqllen        short               |
-- +-sqlver------------------------------+ ---
-- | I_PRICEHn       CHAR(6)          | |
-- +---------------------------------------+ |
-- | I_NAMEn         CHAR(24)         | |
-- +---------------------------------------+ |
-- | I_DATAn         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;
```

```
    DECLARE @D_NEXT_O_ID     INTEGER;
    DECLARE @OL_NUMBER       SMALLINT;
    DECLARE @STOCK_NUM       SMALLINT;
    DECLARE @MATCH_TBL_CNT
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 sele(IN)
    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_DA
TA
            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_D
IST_04,@S_DIST_05,

@S_DIST_06,@S_DIST_07,@S_DIST_08,@S_D
IST_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_DA
TA
        INTO @S_QUANTITY,

@S_DIST_01,@S_DIST_02,@S_DIST_03,@S_D
IST_04,@S_DIST_05,
@S_DIST_06,@S_DIST_07,@S_DIST_08,@S_D
IST_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)
--  +-------------------------------------+
--  | sqllen       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) "/"       |  |
--  +-------------------------------------+  ---
--
--  +-------------------------------------+
--
--
--
************************************************************
*******************
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 '777777777';
    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  teble
                          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 teble 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
```

```
        --***************--
        -- (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   teble 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  teble select
-- (3) STOCK      teble 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_ODERSTAT_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

Warehouses	1422	**tpmC**	17056.63	**tpmC/W**	11.99	

Table	**Rows**	**Data**	**Index**	**5% Space**	**8H Space**	**Total Space**
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
Totals		160,209,818	5,019,376	5,394,551	10,709,851	181,333,595

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
Total	20,648,847

Dynamic space	55,045,252	Sum of Data for Order, Order-Line and History (excluding free extents)
Static space	115,599,229	Data + Index + 5% Space + Overhead - Dynamic space
Free space	15,254,296	
Daily growth	10,303,281	(Dynamic space/W * 62.5)* tpmC
Daily spread	0	Free-Space - 1.5 * Daily-Growth
180 day (KB)	1,970,189,839	1,970,189,839
180 day (GB)	1,878.92	1,878.92 <- Assumes no Daily Spread
Maximum	15,454,921.76	free space allowed

Measured Configuration

Type	**Number**	**Total GB**
9GB Drives	181	1,533.07
Totals	181.00	1,533.07

Space Usage

Usage	**Size (GB)**
180-day Space	1,878.92
Root,swap,usr	0.57
Log	101.64
Total	1,981.13

			Deficit	448.06

MB log used	12701.8222			
Total N-O Txn	2007345			
KB log / Txn	6.4795			
8 Hour Log (GB)	50.59			
After image Log [GB]	3.99			
Before image Log	1.95			
Log index	0.05			
Log disks [9GB]	12	8Hour Log + (AI Log*mr)		
Extra log space	39.07			
Deficit after including excess log space				408.99
Additional 9GB disks needed				**49**

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	Operaiting 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 TO 914087468502 P.02/03

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399
Tel 206 882 8080
Telex 160520
Fax 206 936 7329

Microsoft

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 A Hassall.

Mark Hassall
Product Manager, Microsoft Windows NT Server

Microsoft Corporation is an equal opportunity employer.

09.10.98 09:23 AM P02

BEA ENTERPRISE MIDDLEWARE SOLUTIONS

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:

1

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

FUJITSU

09/18/98 FRI 10:30 FAX 818 773 0900 NBASE COMMUNICATIONS 001

NBase Switch Comm.

8943 Fullbright Ave.
Chatsworth, CA 91311

Tel : 818-773-0900
Fax: 818-773-0906

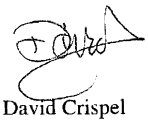
Fax Cover Sheet

ATTN.:	**John Howell**
Company:	**Amdahl Corp.**
Phone:	**408-746-7802**
Fax:	**408-746-8502**
FROM:	**David Crispel**
cc:	
Date:	**8/27/98**
No. of pages including cover:	**1**

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

09. 18. 98 10:29 AM P01

QUOTATION

COMPEX , INC.
4051 E. LA PALMA AVE #A
ANAHIEM CA. 92807
(714) 630-7[illegible]2
(714) 630-6[illegible]1 FAX
WWW.CP[illegible]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
TP100[illegible]	1910		8 Port RJ45&BNC ETHERNET CASCADABLE HUB *Life-Time Warranty*	30.00	$57300.00
			TOTAL		
TERM					
VALID [illegible]OR		DAYS	90 days		
FRO[illegible]			T.J.FENG		

Appendix I: Auditors attestation letter

Information Paradigm

TPC TRANSACTION PROCESSING PERFORMANCE COUNCIL

Certified Auditor

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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

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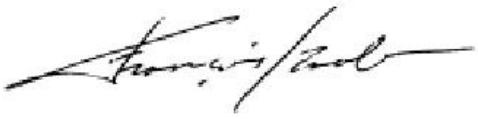
In my opinion, these performance results were produced in compliance with the TPC requirements for Revision 3.4 of the benchmark. The following verification items were given special attention:

- 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
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