IBM Software Group

Historical Information on Your IMS Environment

Session B62

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Tivoli software

e business software

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Agenda

- What is Tivoli Decision support for OS390?
- Reports
- Support for IMS Release 8
- TDS/390 V1R6 evolution toward Tivoli Data Warehouse

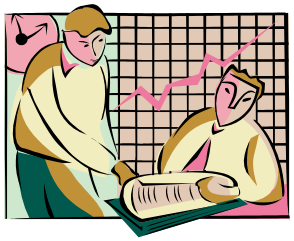
What is TDS/390?

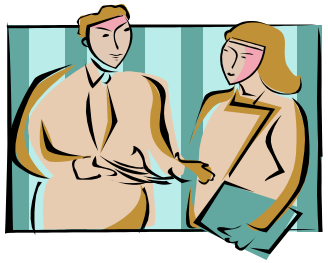
TDS/390's formula for success

✓**Collects, Summarizes and Stores raw system metrics data and houses it in a ...**

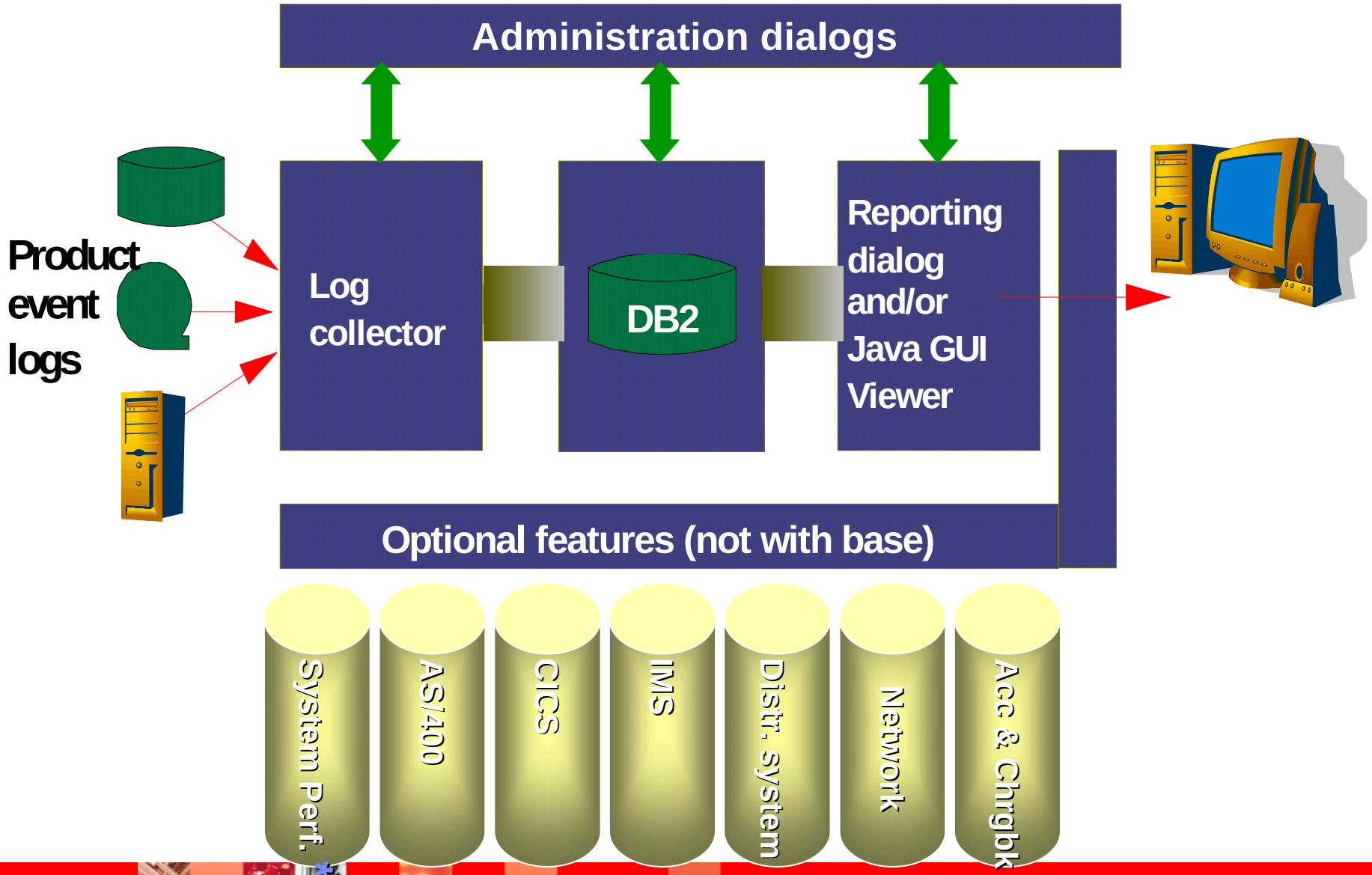
✓**Centralized Datastore - providing a fully SECURED, relational, centralized information portal...**

All the information you need to demonstrate the effectiveness of IT is at your fingertips***!***

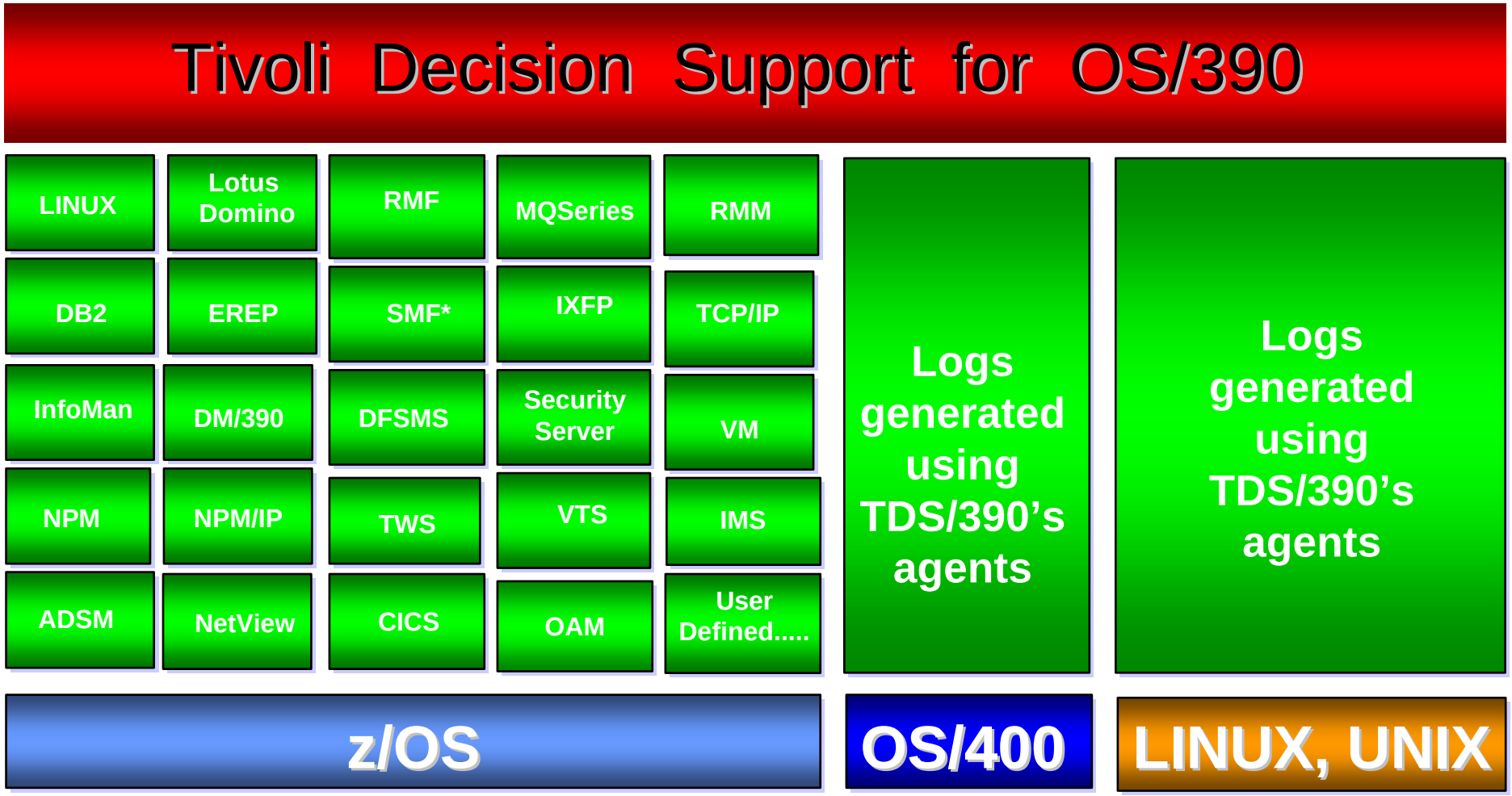




TDS/390 product concepts – Distinctive features



TDS/390 product concepts – Feeds

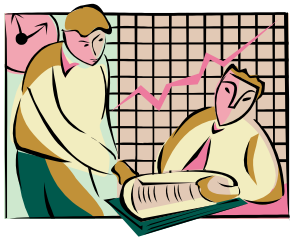


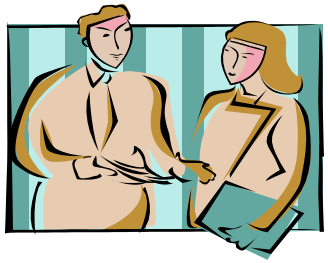
TDS/390's formula for business efficiency

✓Collects, Manipulates and Consolidates raw system metrics data in a ……

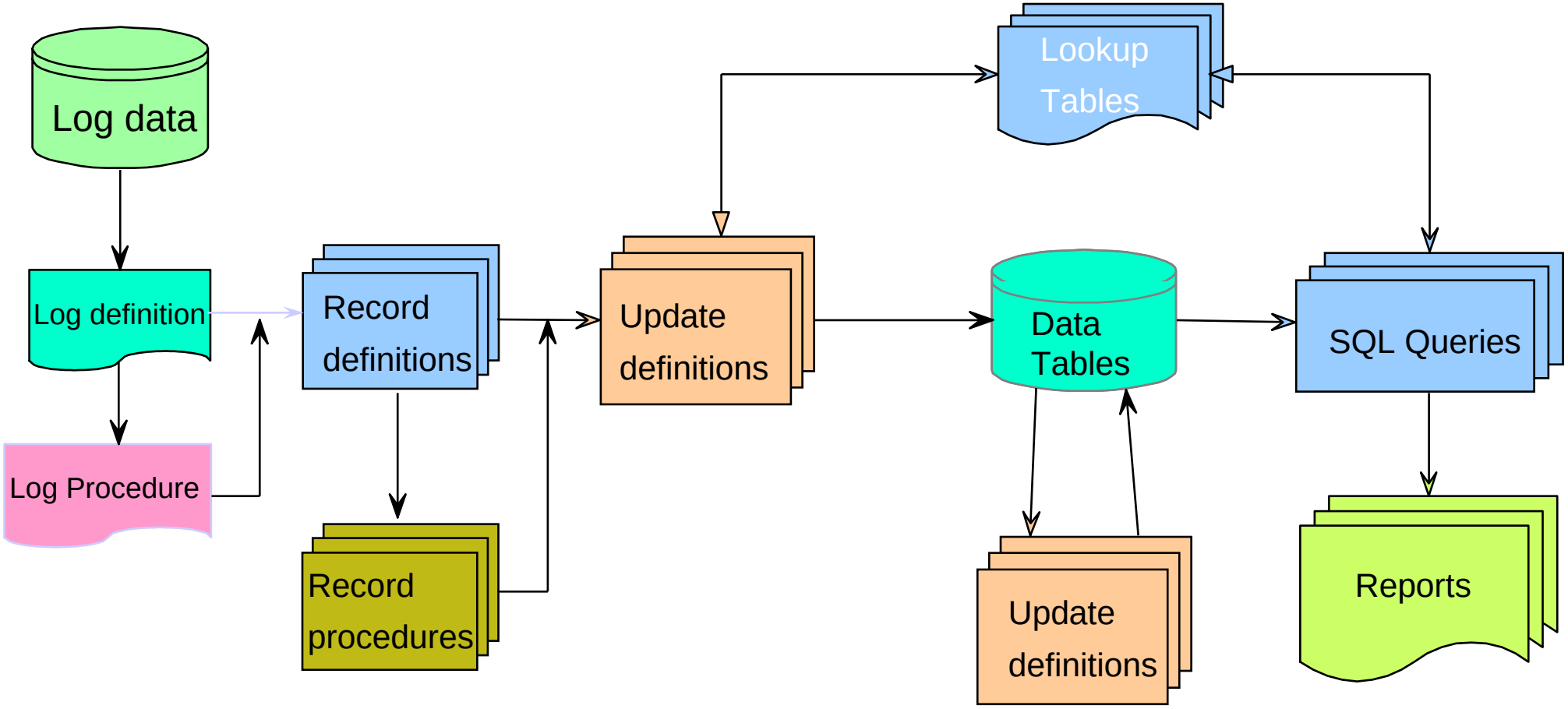
✓Centralized Datastore (DB2/390), providing a fully **SECURED**, relational, centralized information portal

All the information you need to demonstrate the effectiveness of IT is at your fingertips***!***





TDS/390's Data Flow



TDS/390's Interfaces

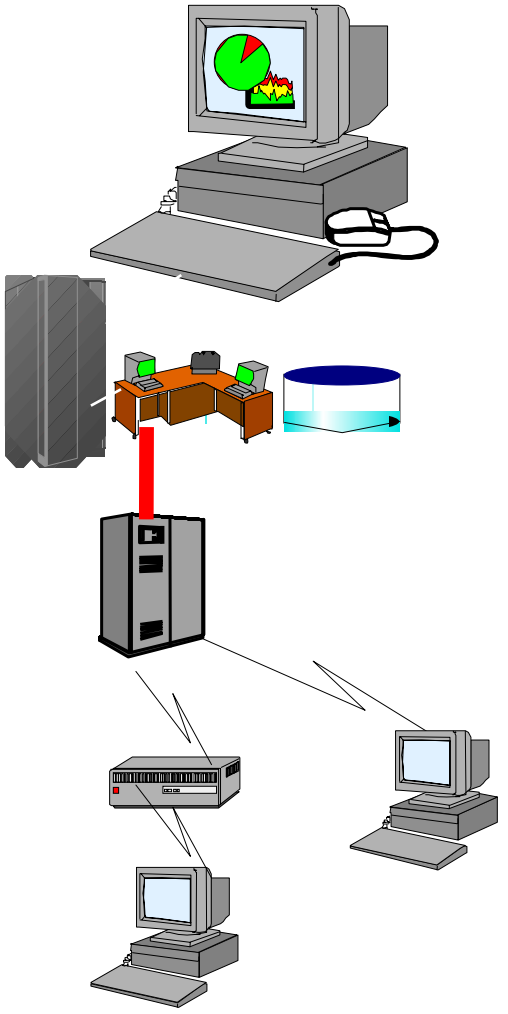
DB2	Relational Database for Storing Data and TDS/390 System Data
SQL	For Defining and Manipulating Data in a Relational Database
QMF	For Query Management and Data Formatting (Optional)
Java Viewer	For Presenting Reports Graphically on the desktop (Optional)
GDDM	For Presenting Reports Graphically on the host (Optional)

TDS/390's Log Collector

- Reads, processes and stores data in database
- Controlled by customizable definitions
- Invoked online or in batch
- Defines the rules for data collection
- Collects log data

TDS/390's Online Dialog

- **Administration Dialog**
  - Installation
  - Customization
  - Collect Data
  - Database Administration
  - Reporting
  - Migrating
- **Reporting Dialog**
  - Display Reports
  - Customize Reports
  - Print Reports



TDS/390's data sources

- Tivoli Distributed Monitor
- ARM
- Tivoli NetView for OS/390
- TCP/IP for OS/390
- Tivoli Service Desk for OS/390
- Tivoli Security Server (RACF)
- Tivoli OPC
- Tivoli Storage Manager (ADSM)
- Tivoli NPM
- MQSeries
- DFSMS

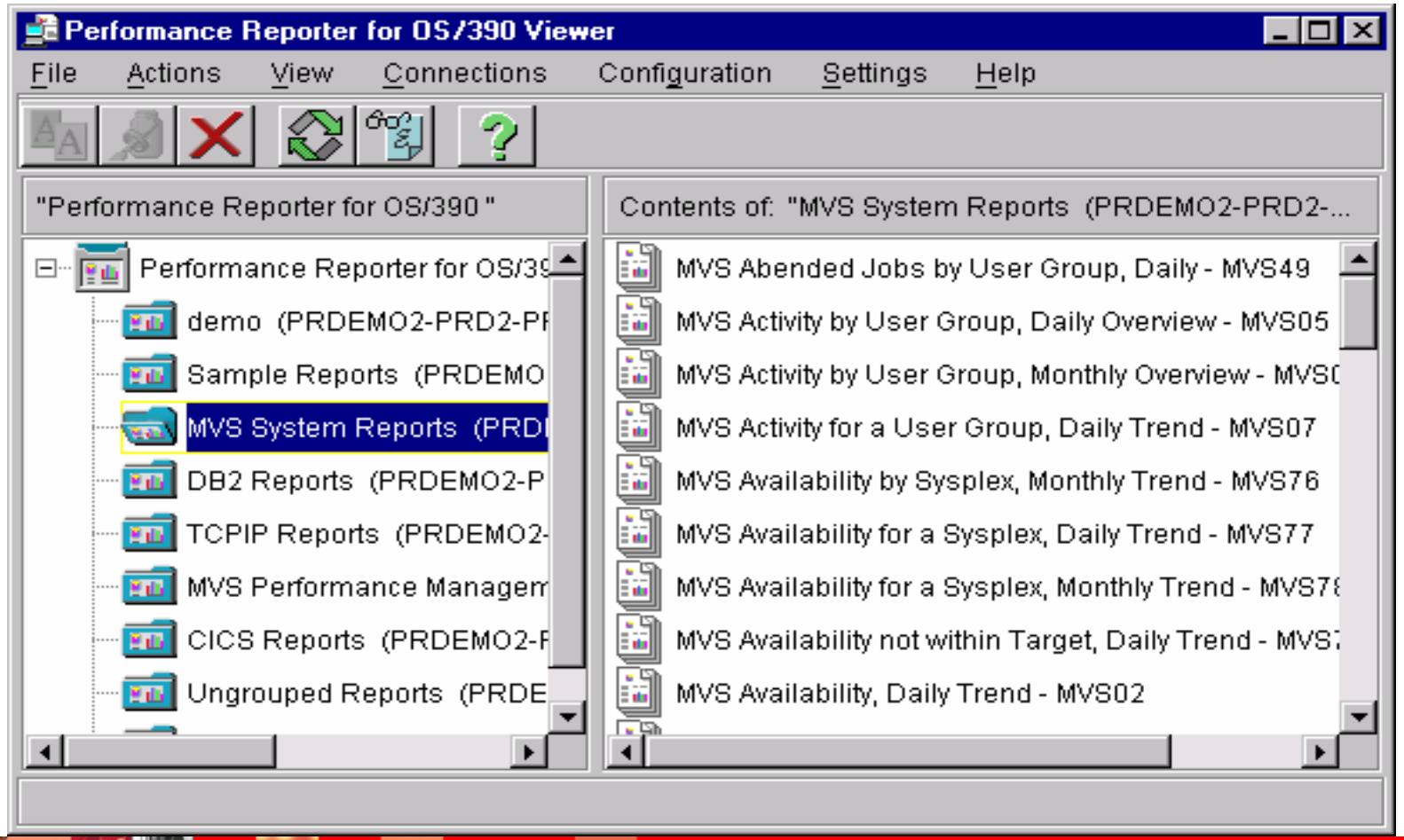
- DB2
- RMF
- CICS
- IMS
- VM
- EREP
- IBM HTTP Server
- AS/400
- NT
- UNIX
- Linux and Linux 390
- User defined
- AND MANY MORE…….

TDS/390's Java GUI Viewer

Totally platform independent

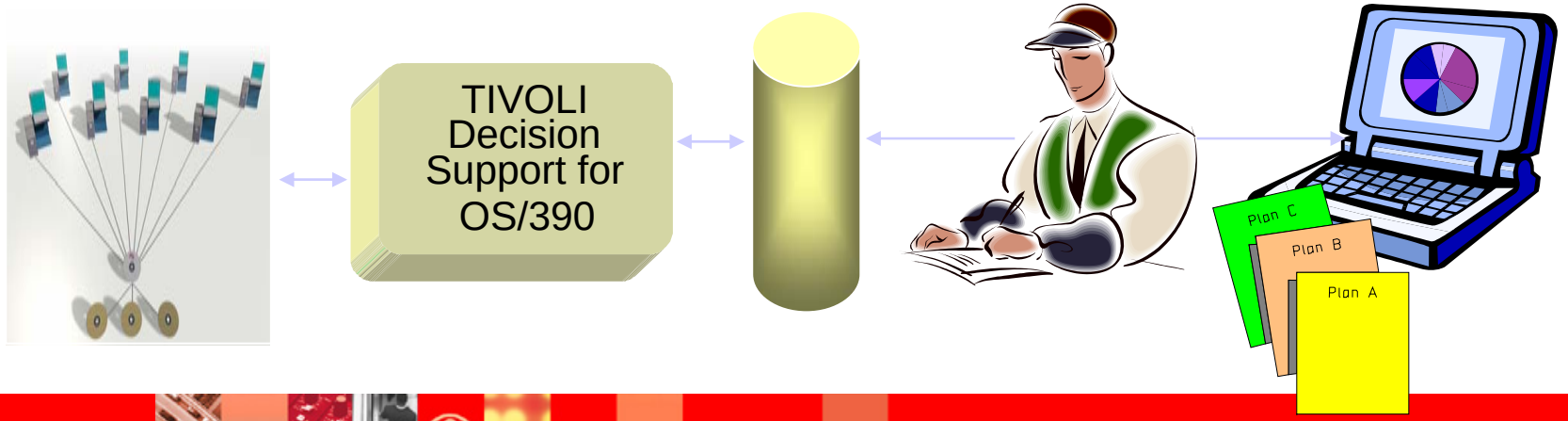
Windows File Manager graphical look & feel

JDBC database connection



TDS/390's Accounting & Chargeback

- **Provides the information you need to understand and manage IT costs, particularly as they relate to IT services and business applications, and the business functions that these services support.**
- **Allows you to link IT costs directly to the products and services produced by your business enterprise.**
- **Improves operational planning, cost management, responsiveness, decision making, overall reliability and business efficiency.**



TDS/390's Accounting & Chargeback

- IT Financial Analysis

  Designed for the financial analyst to assist in IT financial analysis functions

  Automated e-mail invoicing to LOB's

  ODBC access

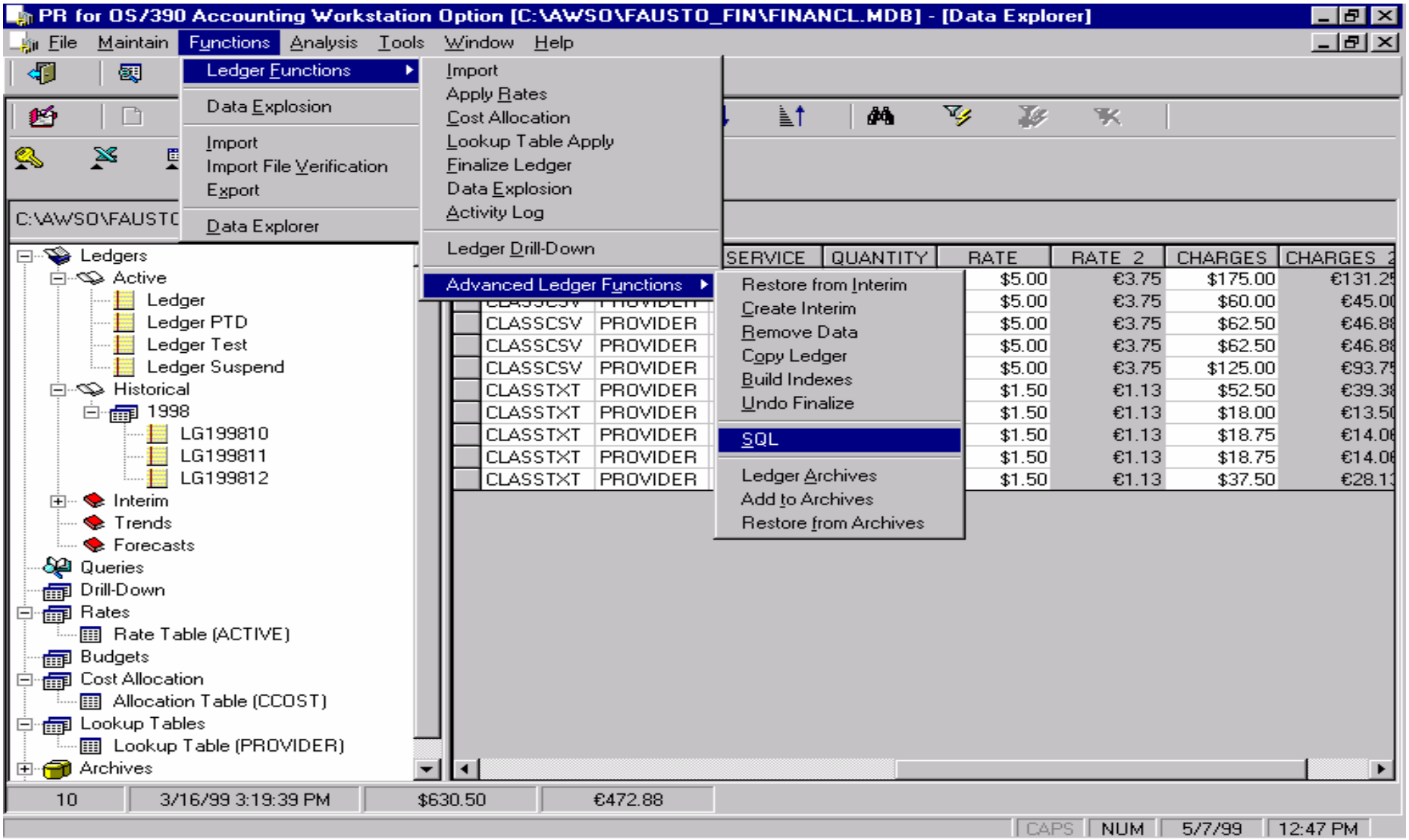
  FTP batch download and import

  Accounting and Chargeback from the desktop

  Analytical functions include :

  - data drill-down
  - trending
  - Forecasting
  - budgeting
  - business service analysis
  - custom report development
  - query functionality
  - SQL logging

TDS/390's Accounting & Chargeback



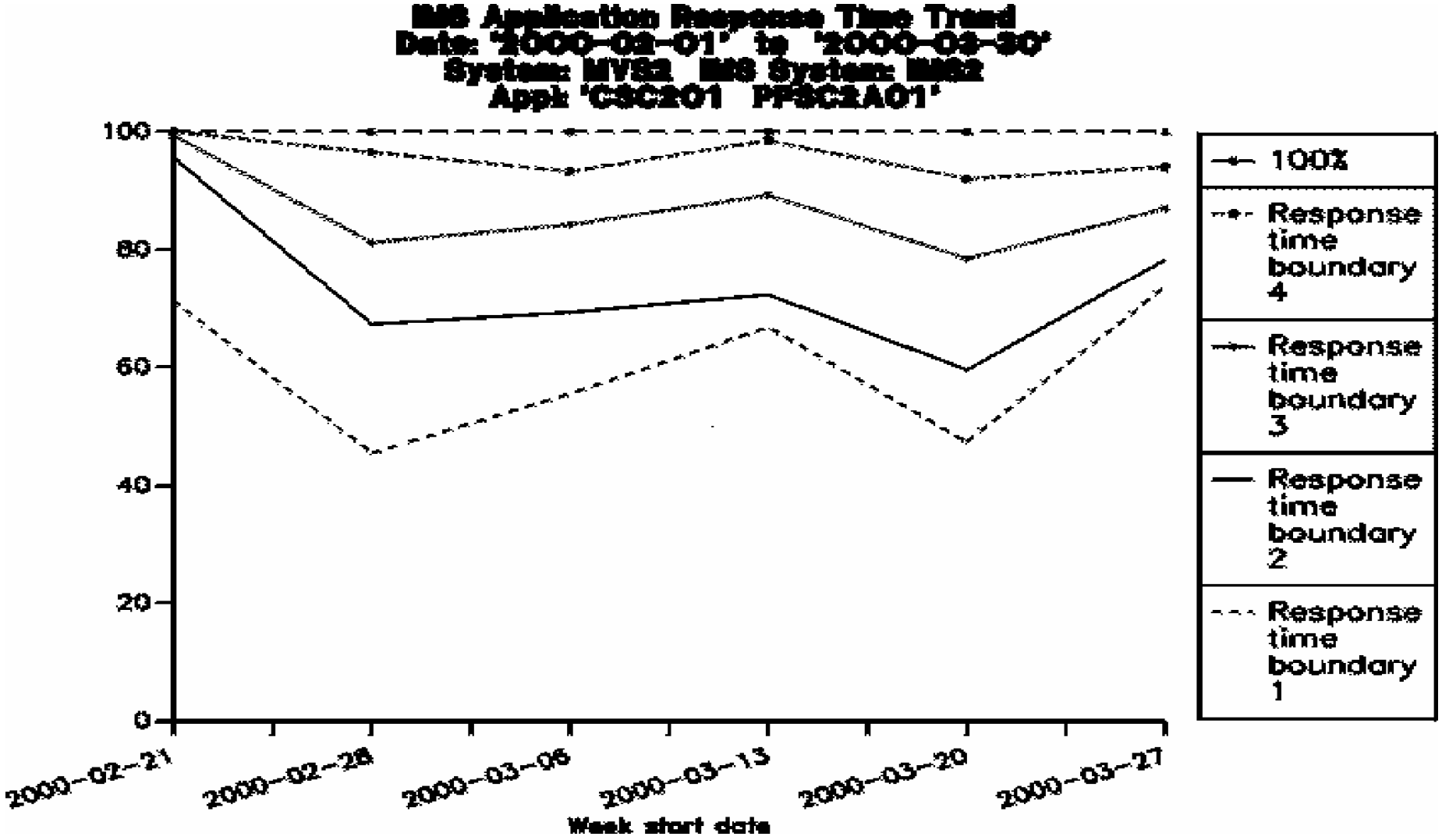
TDS/390 v1.6 New Functions

- ✓ IMS Enhancements – Addressing Customer Feedback
  - Shared Queue Enhancement
  - IMS-light feature for performance enhancement
  - IMS message queue statistics
- ✓ Websphere App Server for z/Os and OS/390 V4.01 support
- ✓ Improved High Availabiltiy Suport
- ✓ Time to Value enhancements:
  - Intelligent TDS/390 upgrade preserving existing customizations
  - Customization enhancements for init members
  - Archive Facility
  - Data Dictionary for MVS, MVSPM and DFSMS subcomponents
- ✓ MQSERIES availability metrics and reports for SLM
- ✓ Processor utilization metrics consistency (MIPS metrics)
- ✓ New Admin. Reports for TDS390's system objects
- ✓ Ongoing Application Currencies (including development run Beta programs for specific, requested Subcomponents)
- ✓ NPM/IP subcomponent redesign
- ✓ SMF30 Interval records support provided as sample

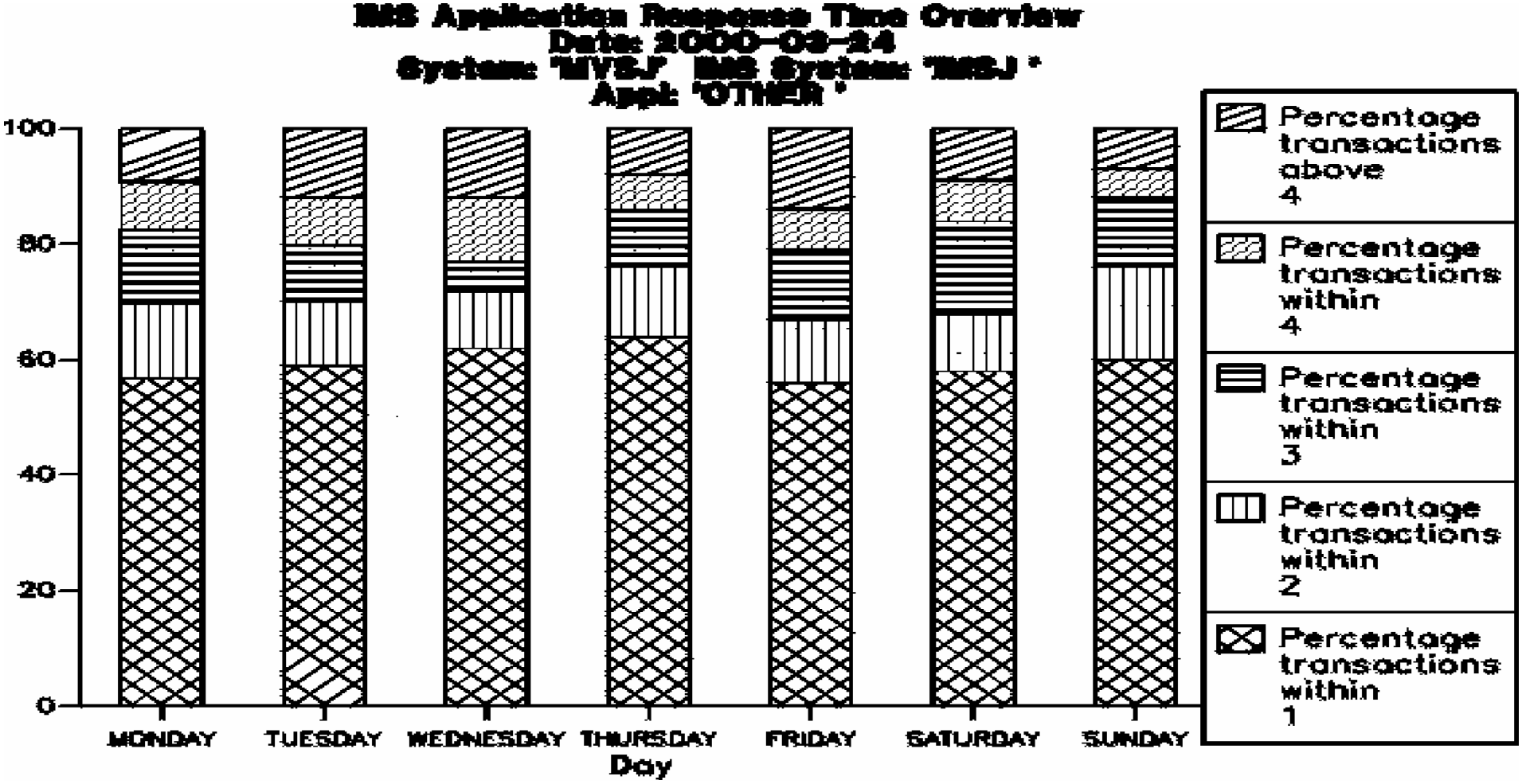
Agenda

- What is Tivoli Decision support for OS390?
- Reports
- IMS Support Version 8
- TDS/390 V1R6 evolution toward Tivoli Data Warehouse

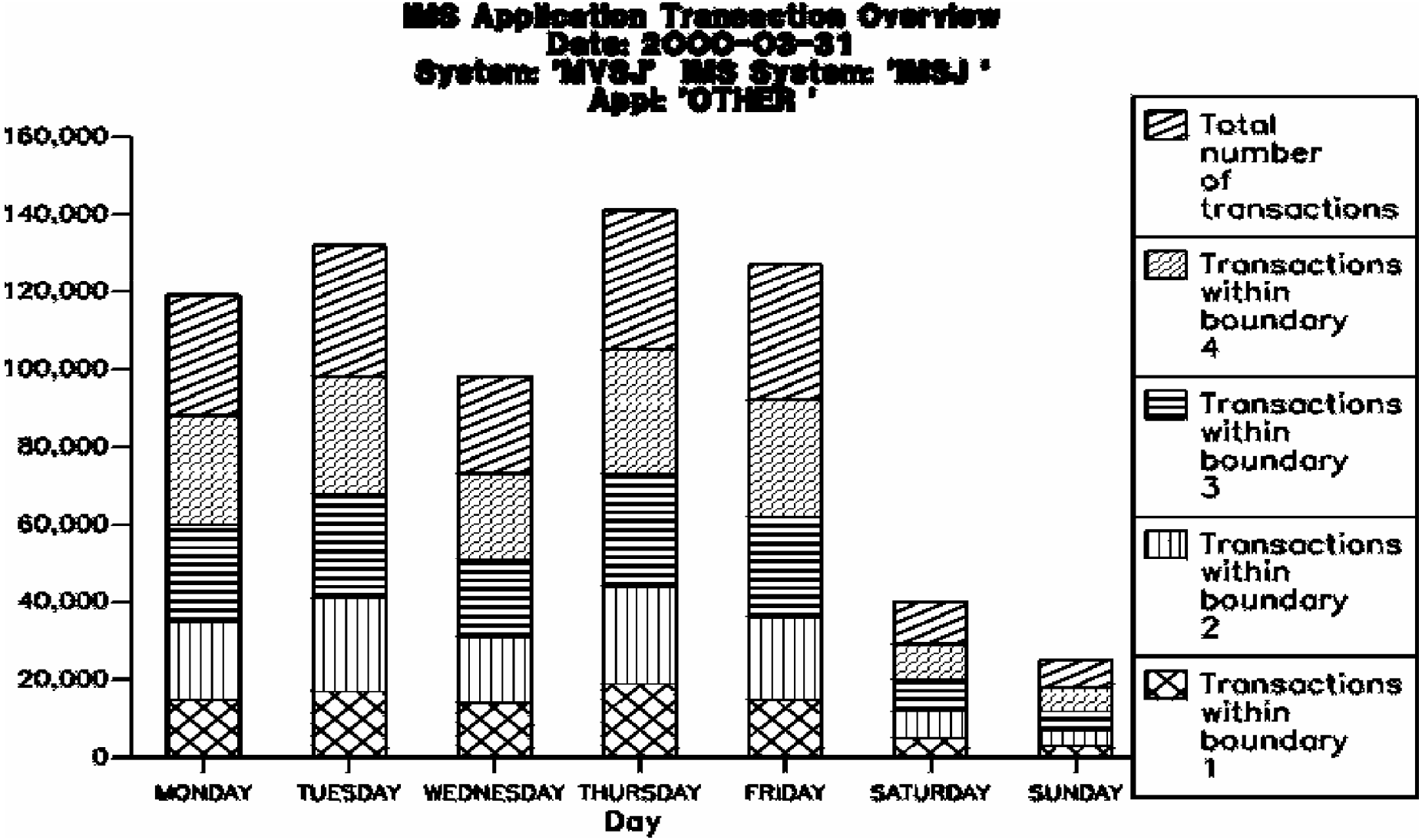
Application Response Time



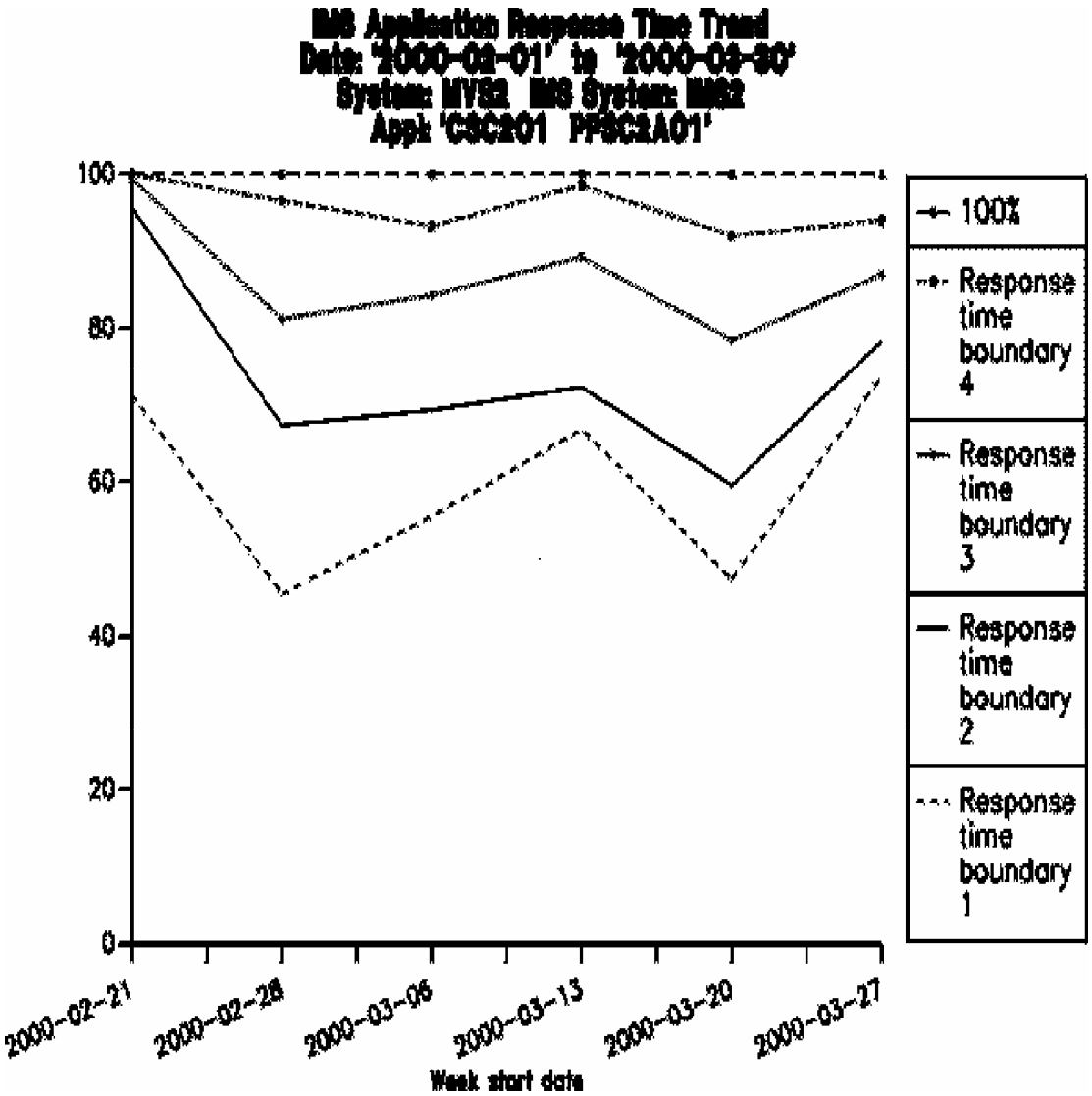
Application Response Time Overview



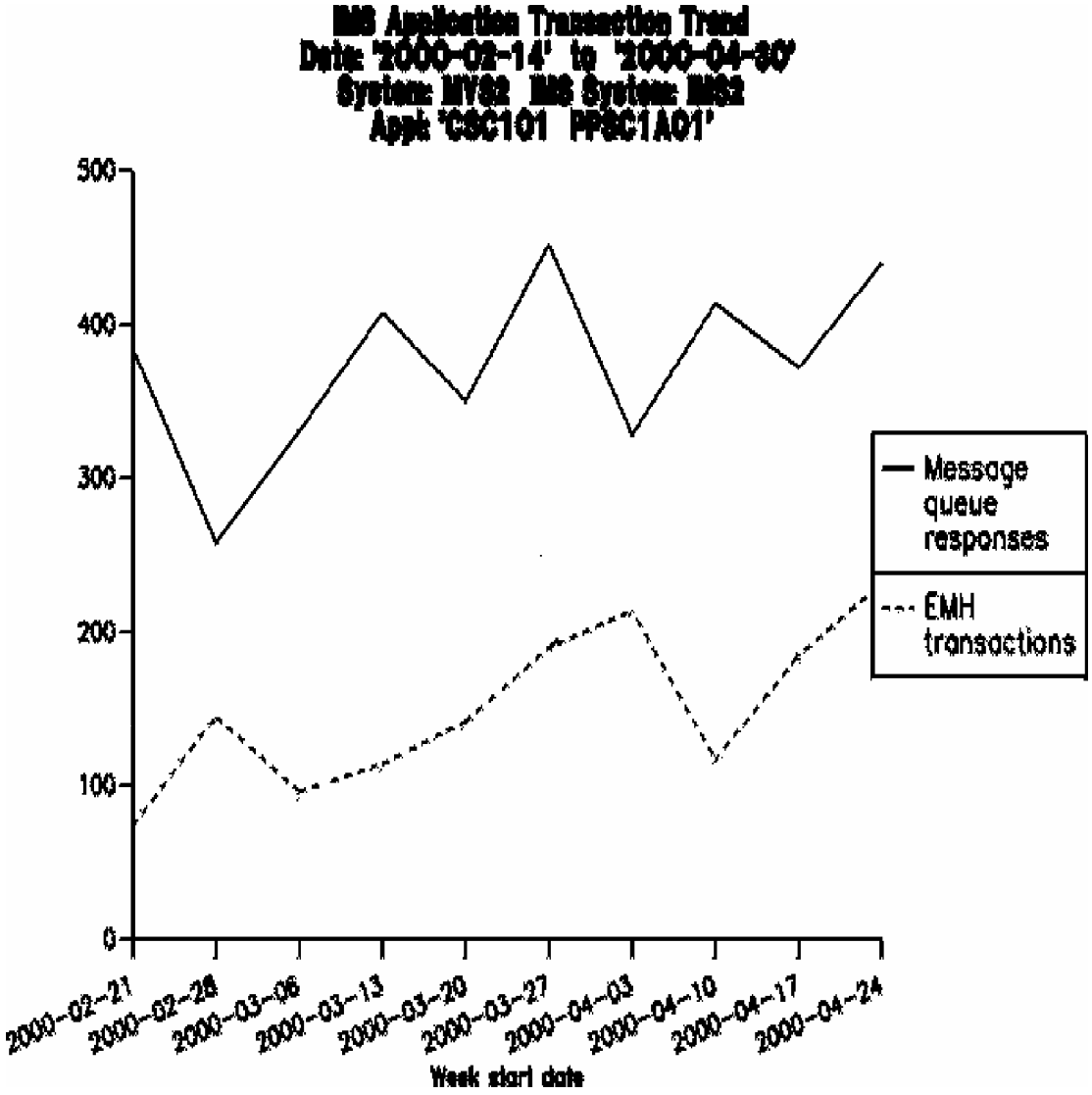
IMS Application Transaction Overview



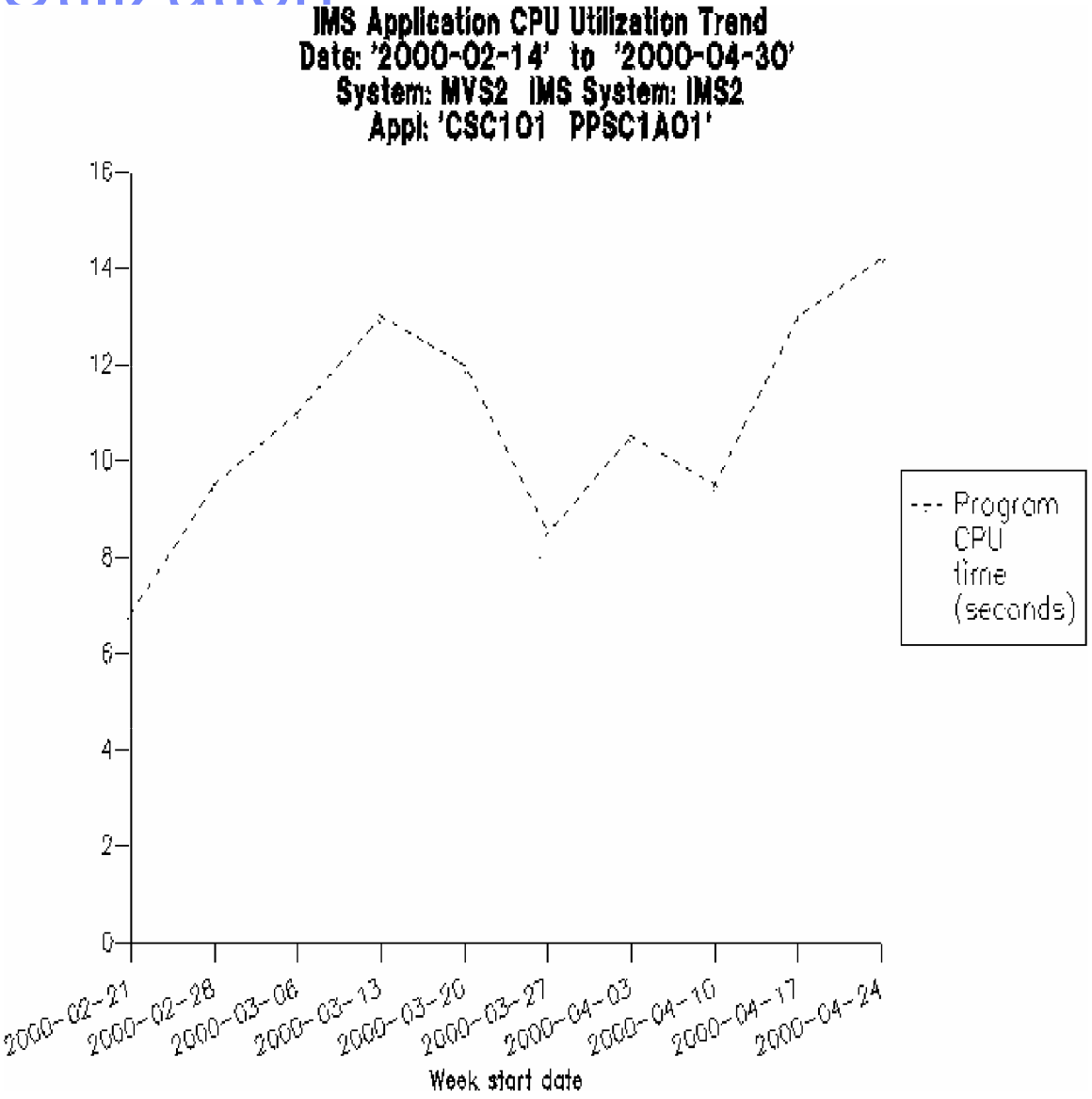
IMS Application Response Time Trend



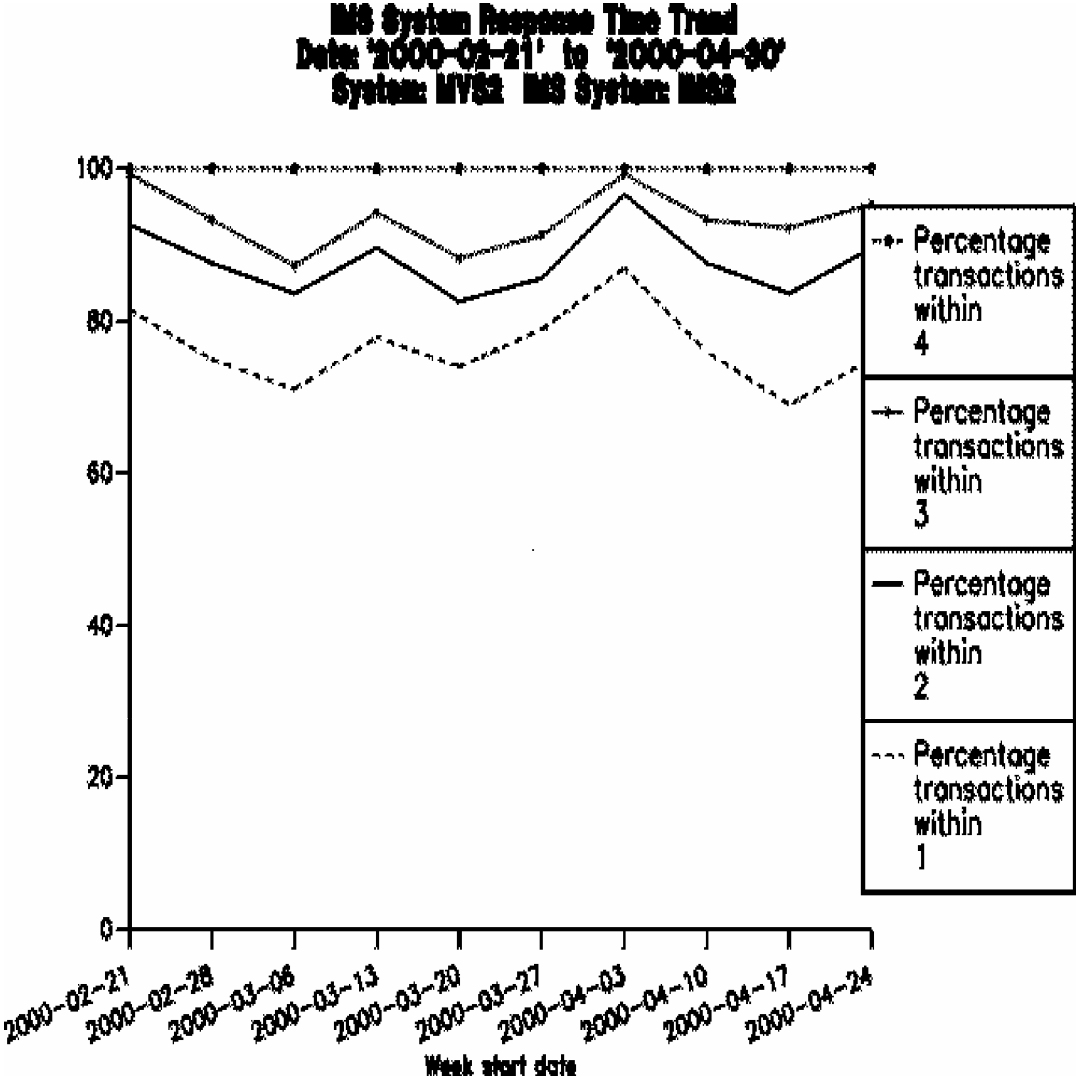
IMS Application Transaction Trends



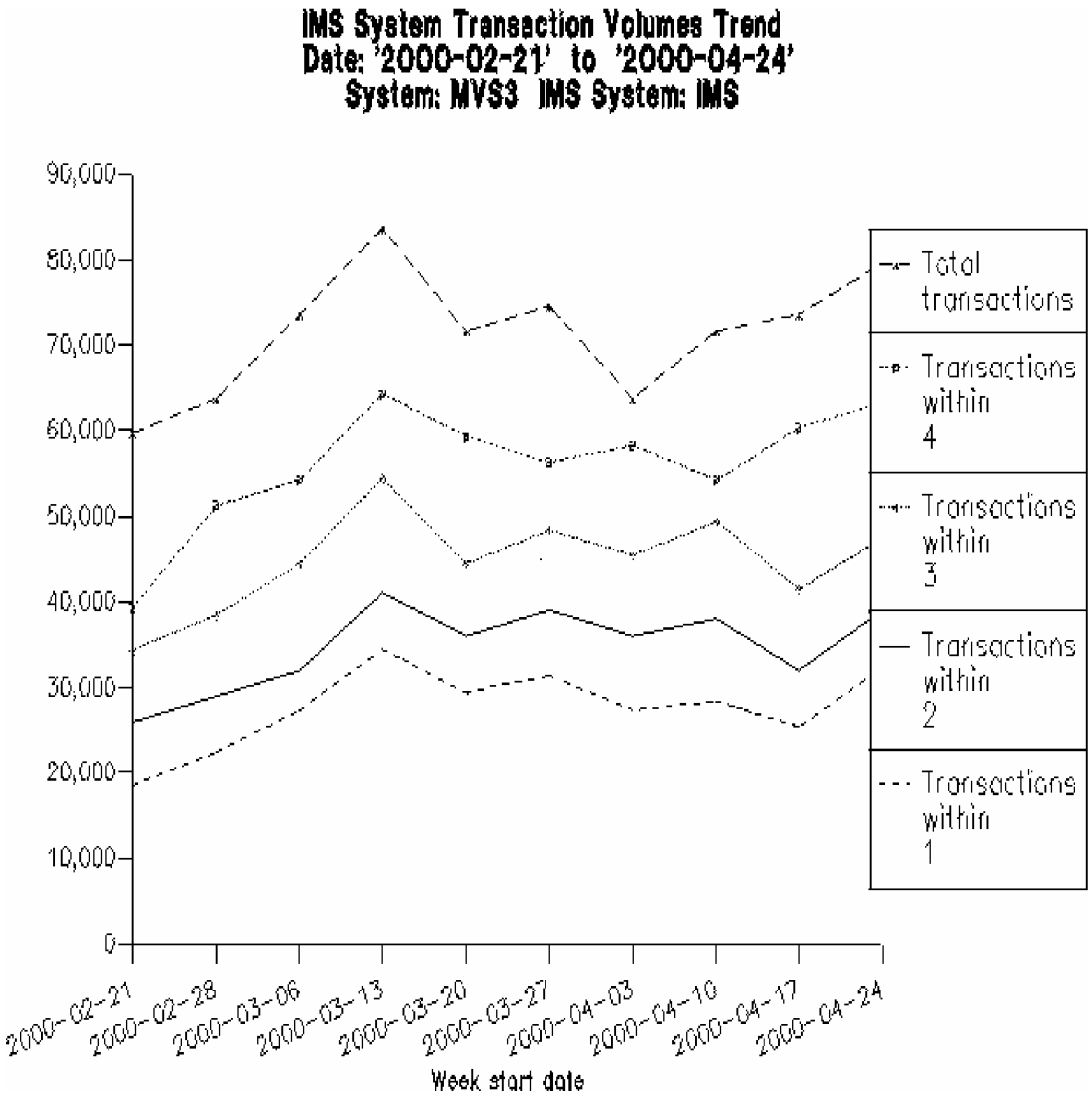
IMS CPU Utilization



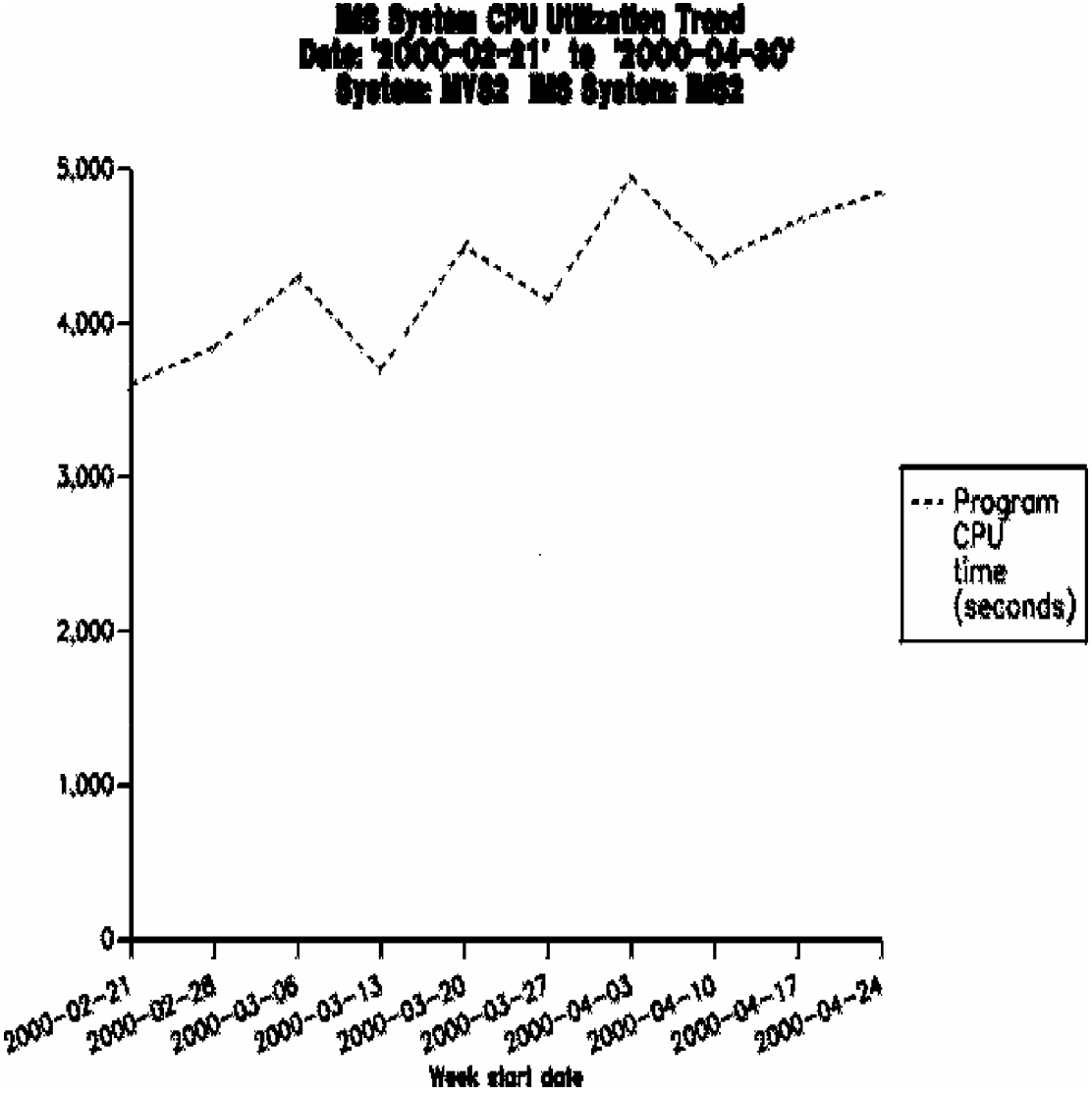
IMS Response Time Trend Report



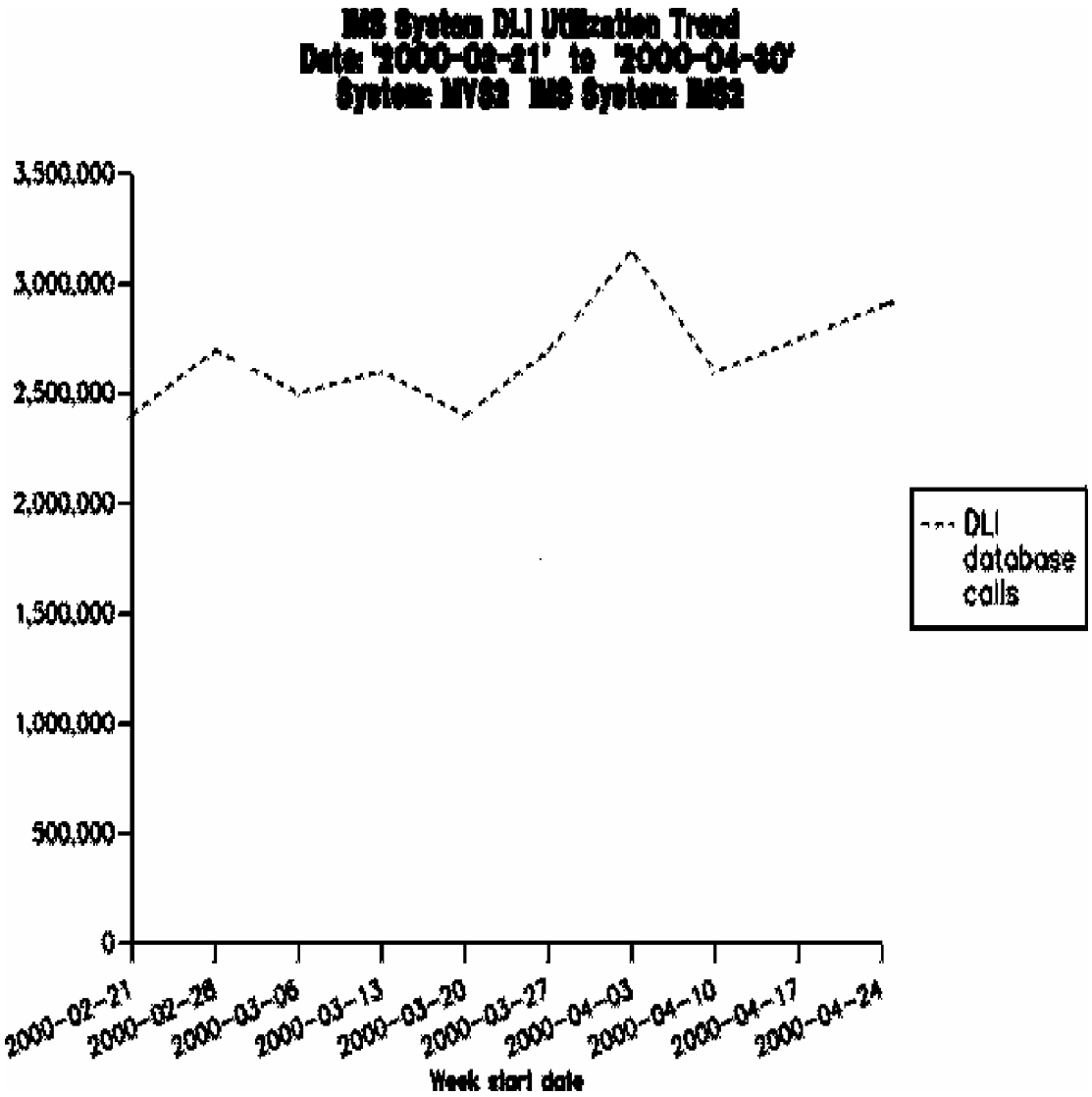
IMS System Transaction Volumes Trend



IMS System Utilization Trend Report



IMS System DLI Utilization Trend



Agenda

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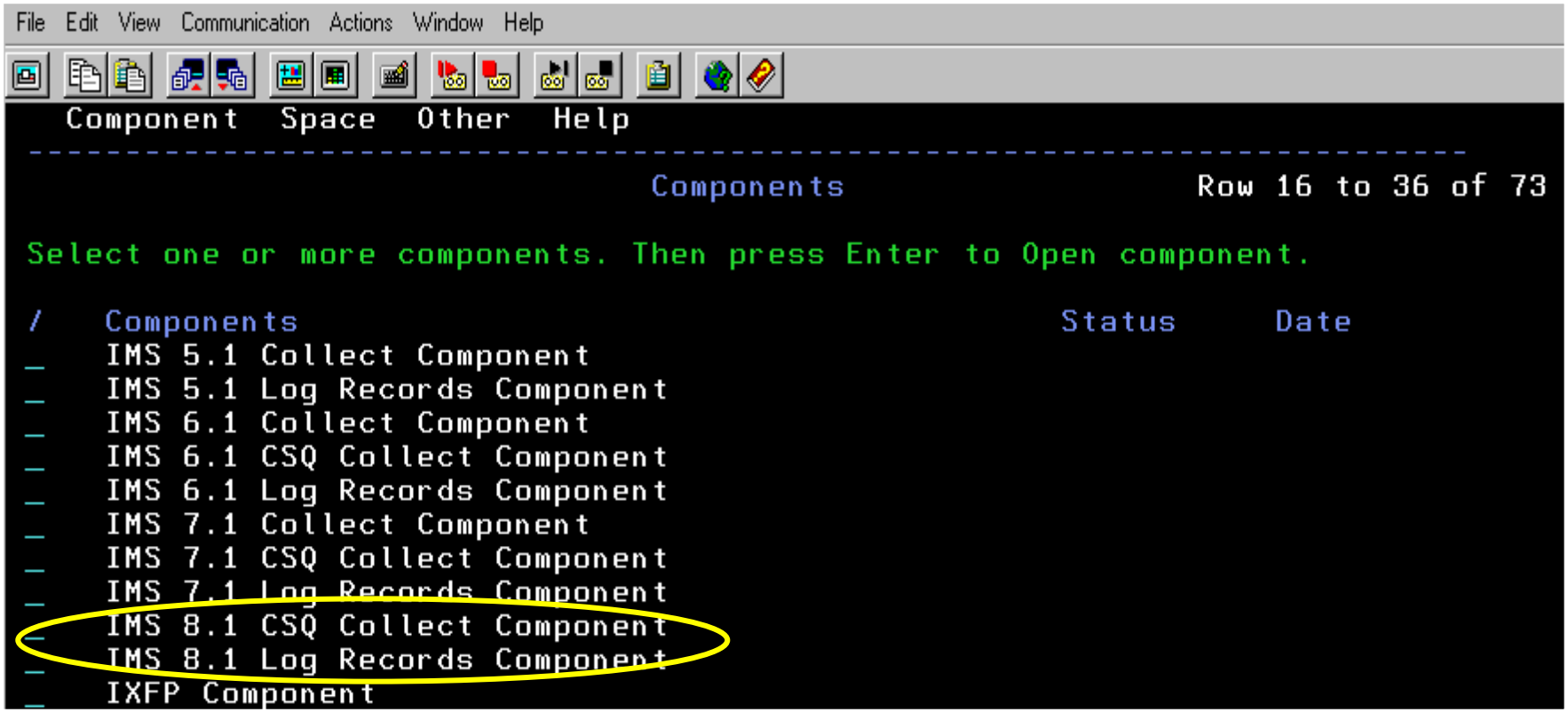
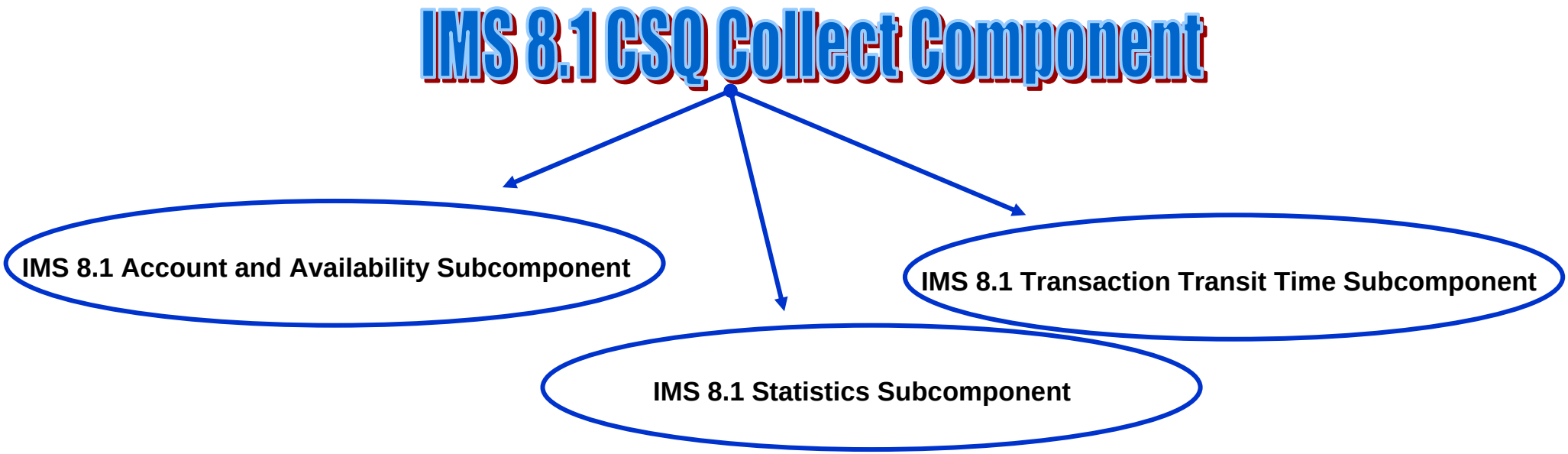
TDS/390 1.6 IMS Version 8 Support

- IMS Version 8 support is **completely based** on the

TDS IMS SHARED QUEUES ENGINE



TDS/390 1.6 IMS Version 8 Support




```
                          CSQV810C Component Parts          Row 1 to 3 of 3

Select the parts of the component you want to install.  Then press Enter.

/    Component Part                                       Status     Date
_    IMS 8.1 Account and Availability Subcomponent
_    IMS 8.1 Statistics Subcomponent
_    IMS 8.1 Transaction Transit Time Subcomponent
******************************* Bottom of data ********************************
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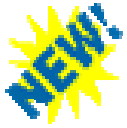
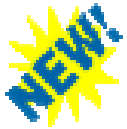
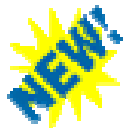
TDS/390 1.6 IMS Version 8 Support



Synchronous APPC (OTMA) Transactions Support



Java (JMP and JBP) Dependent Regions



Fast Path - Record type x'5951'

TDS/390 1.6 IMS Version 8 Support

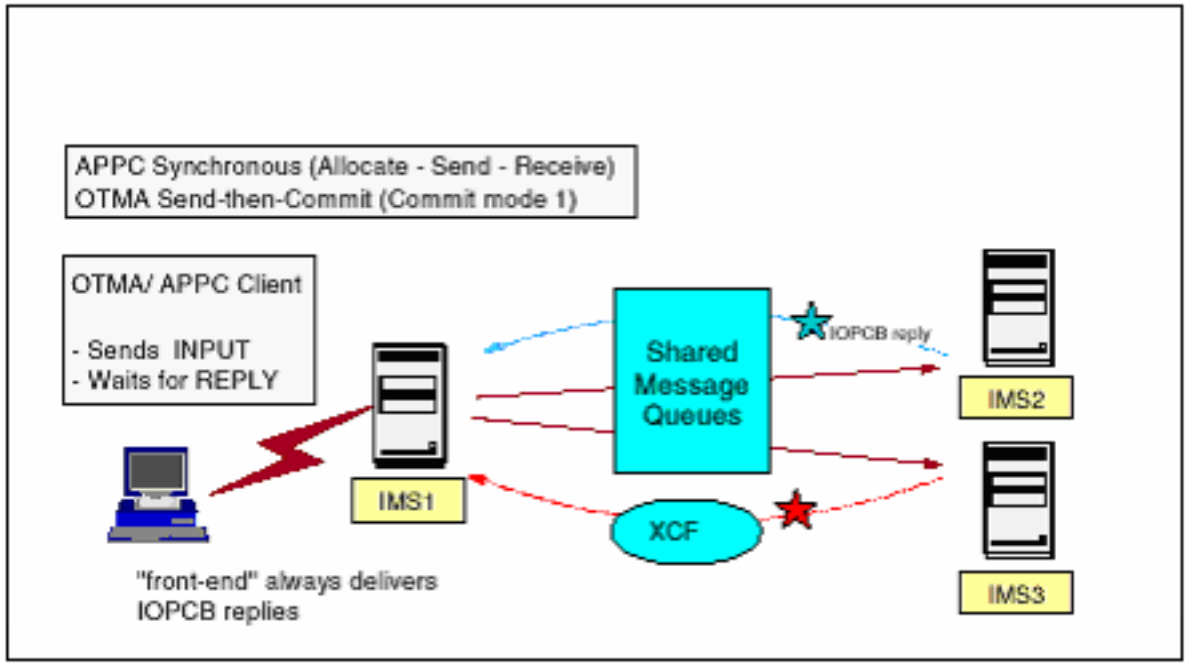
Synchronous APPC AND OTMA Transactions

TDS/390 1.6 IMS Version 8 Support

With IMS Version 8 ...

Shared Queue support to synchronous APPC and OTMA transactions

These enhancement makes it possible to run synchronous transactions entered from APPC or OTMA on any IMS system in the shared queues group.

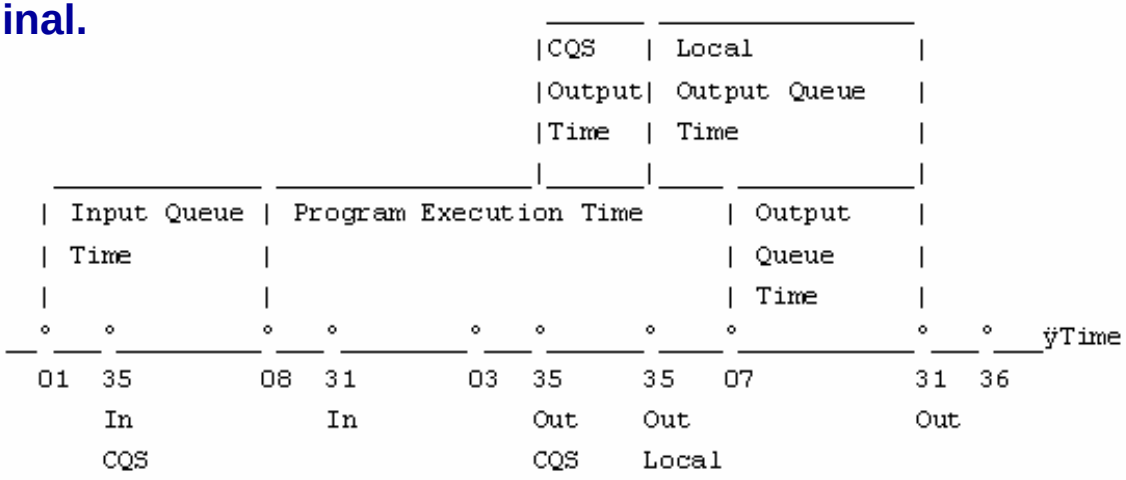


TDS/390 1.6 IMS Version 8 Support

General Transactions

Consider a simple transaction that has one input message, schedules a program and issues some DL/I database calls, then issues one output message back to the terminal. The record flow can be as follows:

- **The input message from the terminal is accepted and put onto the shared queue**
- **The input message on the shared queue is read, an application is scheduled, and an output message is put onto the shared queue (x'35'Output, containg the Recovery Token).**
- **The output message on the shared queue is read and the response is sent back to the terminal.**

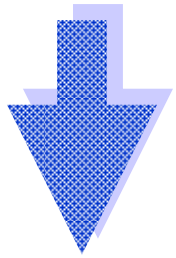


TDS/390 1.6 IMS Version 8 Support

General Transactions

The X’08’ (PSB start) and X’07’ (PSB termination) records may not be in the log data that is being processed.

The Output set of records is linked with the PSB set of records by the recovery token that we find in the X'35' Output record.



AN IMS TRANSACTION HAVING A X’35’OUT RECORD IS CONSIDERED AS A COMPLETE TRANSACTION BY THE TDS IMS LOG PROCEDURE EVEN WITHOUT HAVING X’08’/X’07’ RECORDS IN THE SAME LOG DATA.

TDS/390 1.6 IMS Version 8 Support

Synchronous APPC (OTMA) Transactions

For a synchronous APPC(OTMA) transaction, the output does not get queued

NO X'35' OUTPUT RECORDS

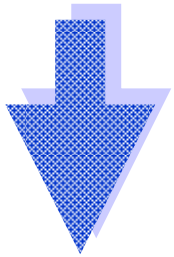
For synchronous transactions, at application syncpoint time, IMS APPC code is called under the dependent region and it does a GU and SEND for the output message.

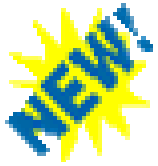
AN IMS TRANSACTION NOT HAVING X'08'/X'07' RECORDS IN THE SAME LOG DATA COULD NOT BE CONSIDERED AS A COMPLETE TRANSACTION BY THE TDS IMS LOG PROCEDURE WITHOUT HAVING ANY X'35' OUTPUT RECORDS

TDS/390 1.6 IMS Version 8 Support

Synchronous APPC (OTMA) Transactions

The X'31' record is a special "BYPASS ENQUEUE" GU record





SYNCHRONOUS APPC (OTMA) TRANSACTIONS ARE CONSIDERED AS COMPLETE TRANSACTIONS BY THE TDS IMS LOG PROCEDURE

TDS/390 1.6 IMS Version 8 Support

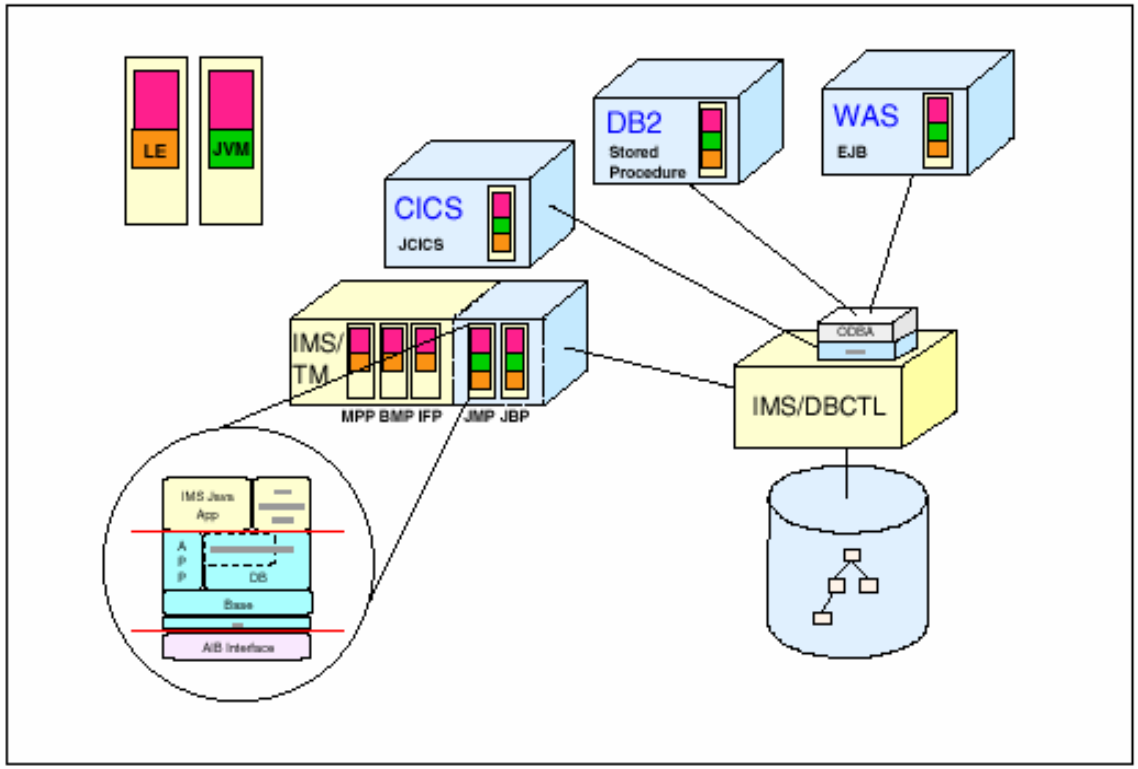
JMP and JBP Dependent Regions

TDS/390 1.6 IMS Version 8 Support

With IMS Version 8 ...

Additional IMS Java processing environments to run Java application programs.

In addition to the IMS Java dependent regions, you can access data in IMS databases using Java application programs running in other OS/390 subsystems.

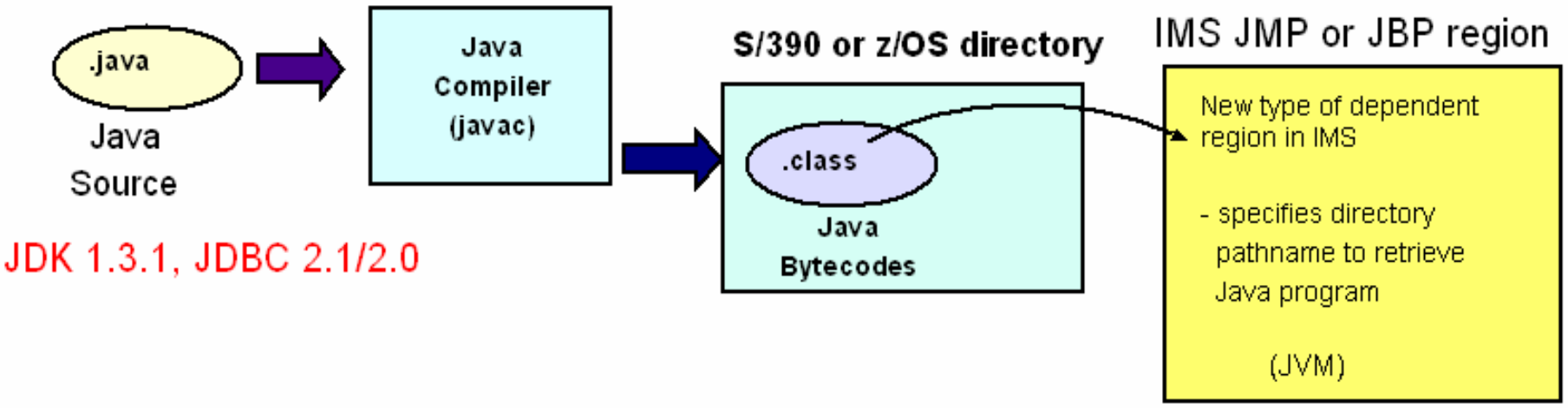


TDS/390 1.6 IMS Version 8 Support

With IMS Version 8 ...

To execute Java application programs in a Java Virtual Machine (JVM) environment, IMS has two new region types:

- **JMP = Java Message Processing** (for message driven JVM applications)
- **JBP = Java Batch Processing** (for non-message driven JVM applications)



TDS/390 1.6 IMS Version 8 Support

Java (JMP and JBP) Dependent Regions

Two values from DRLTYPE have been added, as we can see in the following tables – PROGRAM_TYPE field**:**

- ✓**IMS_PSB_ACCOUNT_H**
- ✓**IMS_PSB_ACCOUNT_D**
- ✓**IMS_PSB_ACCOUNT_W**

PROGRAM_TYPE	Char(10)		From DLRTYPE. When X'80' UOR END X'10' CPI REGION X'08' QUICK RESC X'04' DBCTL THRD X'02' BMP REGION X'01' MPP REGION X'22' JBP REGION X'21' JMP REGION

From DRLTYPE To PROGRAM_TYPE :

X’21’ ==> JMP (Java Message Processing) Region

X’22’ ==> JBP (Java Batch Processing) Region

TDS/390 1.6 IMS Version 8 Support

Fast Path - Record Type X'5951'

TDS/390 1.6 IMS Version 8 Support

The New Record Type X'5951'

The new record type **X'5951'** has been added in

IMS V8 support – SLDS component

It is a Fast Path DEDB database update record and indicates an update made in a non-recoverable AREA/DEDB.

This record type has been added as it is used by Fast Path to show an AREA/DEDB is non-recoverable. In this case, there is no 5950's log record. A 5951 is logged instead.

Record type	Record definition	Description
X'5951'	IMS_V810_5951	Fast Path DEDB database update record. This record indicates an update made in a non-recoverable AREA/DEDB.

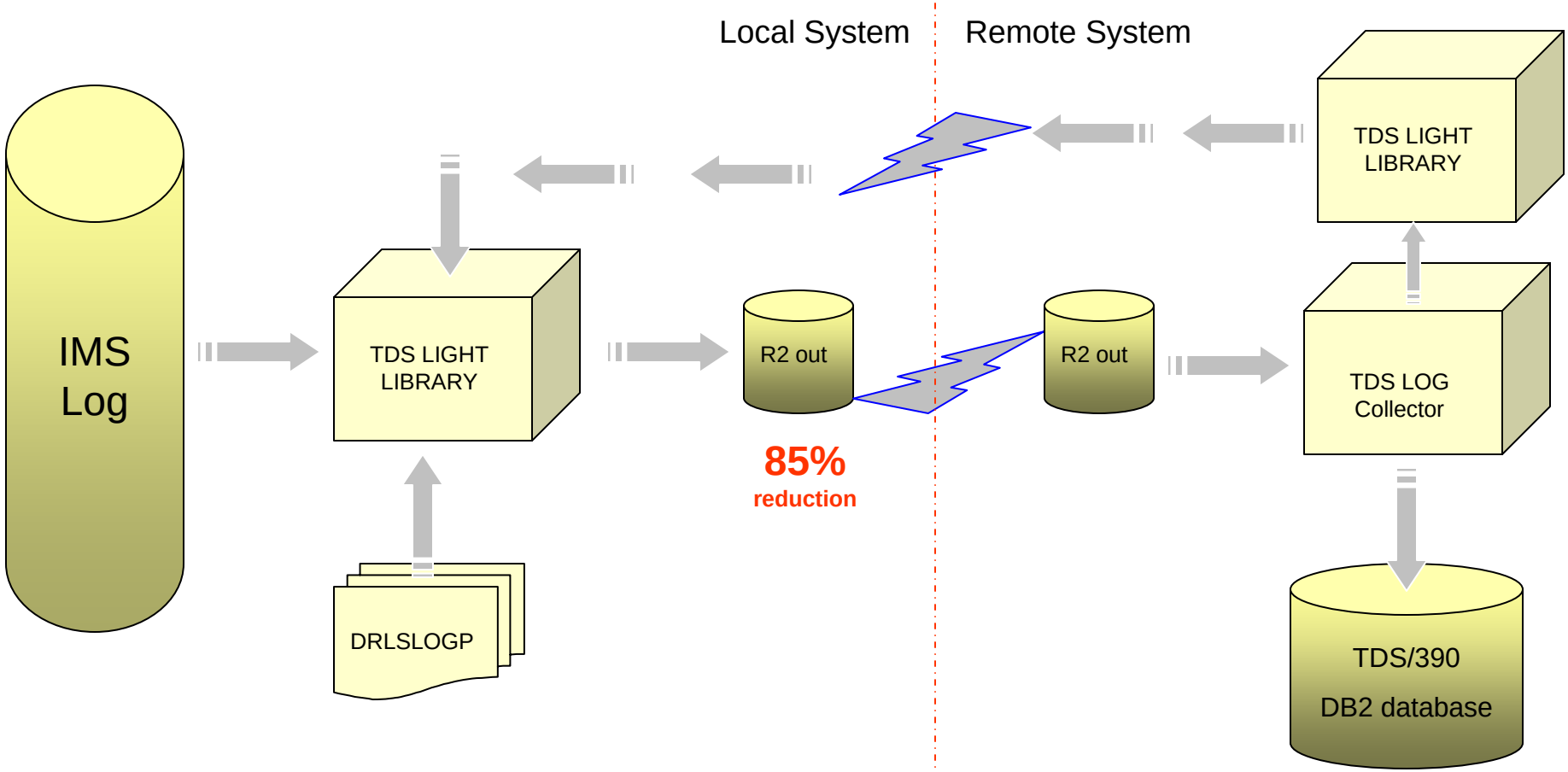
Object Name	Object Type	Member Name
CSQV810CHKPTIOSAMT	Update	DRLUC81S
CSQV810CHKPTPOOLST	Update	DRLUC81S
CSQV810CHKPTREGNT	Update	DRLUC81S
CSQV810CHKPTSTATT1	Update	DRLUC81S
CSQV810CHKPTSTATT2	Update	DRLUC81S
CSQV810CHKPTSTATT3	Update	DRLUC81S
CSQV810CHKPTSTATT4	Update	DRLUC81S
CSQV810CHKPTSTATT5	Update	DRLUC81S
CSQV810CHKPTSTATT6	Update	DRLUC81S
CSQV810CHKPTSTATT7	Update	DRLUC81S
CSQV810CHKPTVSAMT	Update	DRLUC81S
CSQV810TRANH	Update	DRLUI81C
CSQV810SYSTH	Update	DRLUI81C
CSQV810PSBACCNT_H	Update	DRLUI81P
CSQV810PSBACCA7_H	Update	DRLUI81P
IMSV810AVLIMSSYS06	Update	DRLUI81V
IMSV810AVLIMSSYS40	Update	DRLUI81V
IMSV810AVLREGION47	Update	DRLUI81V
CSQ_V810_COLLECT	Log	DRLLS81C
CSQ_V810_COMP	Record	DRLRS81C
CSQ_V810_R2	Record	DRLRS81C
CSQ_V810_ST4001	Record	DRLRS81C
CSQ_V810_ST4502	Record	DRLRS81C
CSQ_V810_ST4503	Record	DRLRS81C
CSQ_V810_ST4504	Record	DRLRS81C
CSQ_V810_ST4505	Record	DRLRS81C
CSQ_V810_ST4506	Record	DRLRS81C
CSQ_V810_ST4507	Record	DRLRS81C
CSQ_V810_ST4508	Record	DRLRS81C
CSQ_V810_ST4509	Record	DRLRS81C
CSQ_V810_ST450A	Record	DRLRS81C
CSQ_V810_ST450B	Record	DRLRS81C
CSQ_V810_ST450C	Record	DRLRS81C
CSQ_V810_ST450D	Record	DRLRS81C
CSQ_V810_ST450E	Record	DRLRS81C
CSQ_V810_ST47	Record	DRLRS81C
CSQ_V810_ST06	Record	DRLRS81C
CSQ_V810_ST07	Record	DRLRS81C
CSQ_V810_ST08	Record	DRLRS81C

DB2 Objects

IMS Light

IMS Light Feature Component

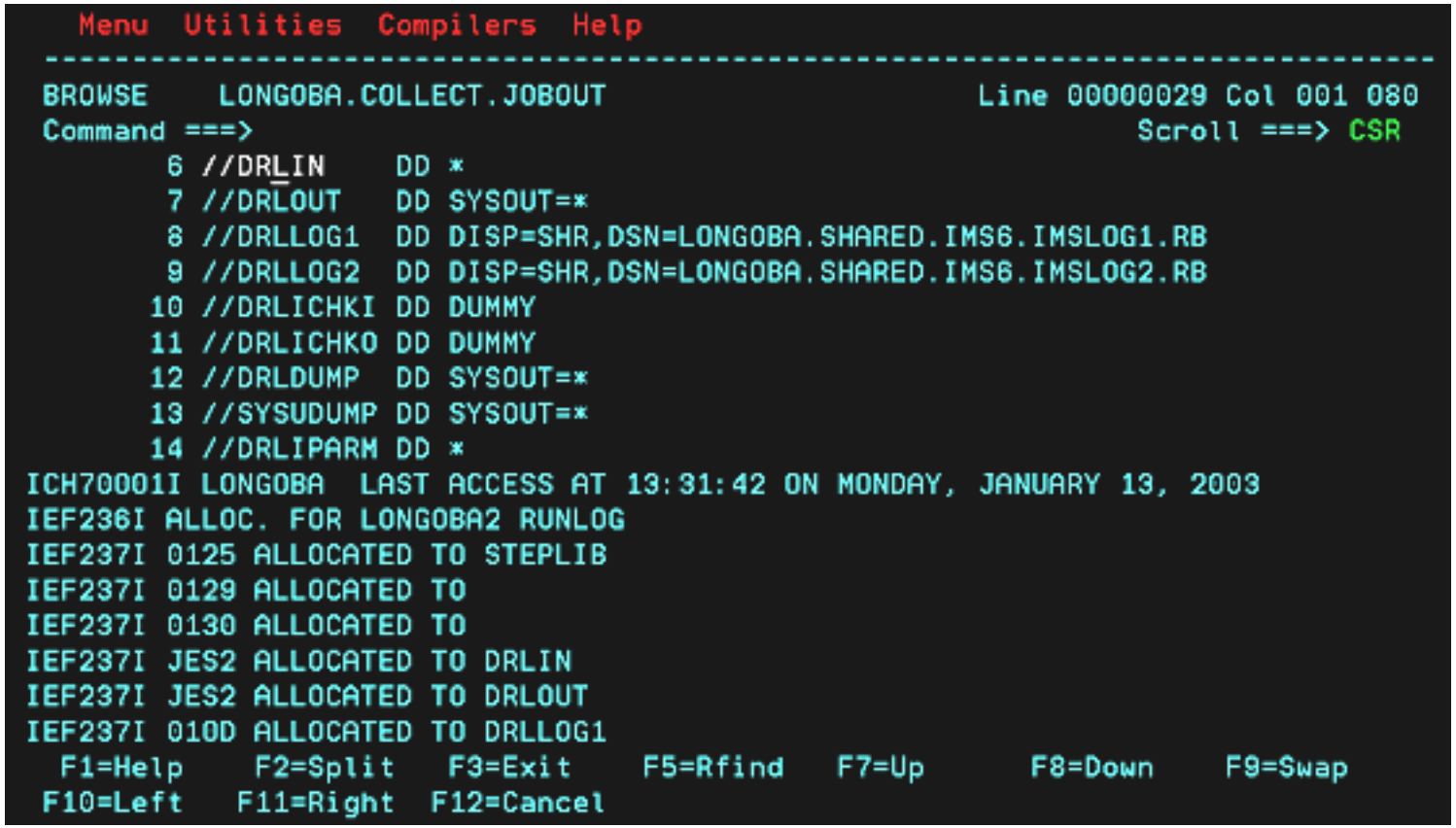
When there is the need to collect IMS data in one location and to process it in a different location running TDS390 data base, the IMS Light component will make the difference.



IMS Shared Queue

IMS Shared Queue enhancement: Online log merging

In order to use the Shared Queue support, an IMS log pre- processing was needed by using the IMS merge utility (DFSLMTG0). An alternative way (online merging option) is now added.



Shared Queue Processing

```
  Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    LONGOBA.COLLECT.JOBOUT                  Line 00000079 Col 001 080
 Command ===>                                        Scroll ===> CSR
DRL0300I Collect started at 2003-01-13-13.34.30.
DRL0302I Processing LONGOBA.SHARED.IMS6.IMSLOG1.RB on EPDMOG  .
DRL0302I Processing LONGOBA.SHARED.IMS6.IMSLOG2.RB on EPDMOD  .

DRL2071I Parameters used in this run:
-------------------------------------------------------------
 Default       TABLE FLUSH                = 0
 Default       MAX FREE POINTERS          = 800
 Default       START                      = 0000000F  0000000F
 Default       STOP                       = 2050365F  2359599F
 Default       IMSID                      = IMS
 Default       RECTYPE                    = FF
 DRLIPARM      WRITEPENDING               = NO
 Default       RESTARTCHECK               = YES
 DRLIPARM      SQ NLOGS                   = 2
 Default       STATISTIC                  = YES
 DRLIPARM      ACCOUNT                    = YES
  F1=Help    F2=Split   F3=Exit    F5=Rfind   F7=Up      F8=Down    F9=Swap
 F10=Left   F11=Right  F12=Cancel
```

```
  Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    LONGOBA.COLLECT.JOBOUT                  Line 00000097 Col 001 080
 Command ===> _                                      Scroll ===> CSR
DRL2064I IM2      started at 2001156F 23330409 has switched OLDS at 2001157F
         15223107 as indicated by type X'42' record at 034301BE.
DRL2064I IMS      started at 2001156F 23143569 has switched OLDS at 2001157F
         15222173 as indicated by type X'42' record at 0367F311.
DRL0304W The log data set is being reprocessed.
         Dataset Name: LONGOBA.SHARED.IMS6.IMSLOG1.RB
DRL0304W The log data set is being reprocessed.
         Dataset Name: LONGOBA.SHARED.IMS6.IMSLOG2.RB
DRL2064I IM2      started at 2001156F 23330409 has switched OLDS at 2001157F
         15223107 as indicated by type X'42' record at 034308F2.

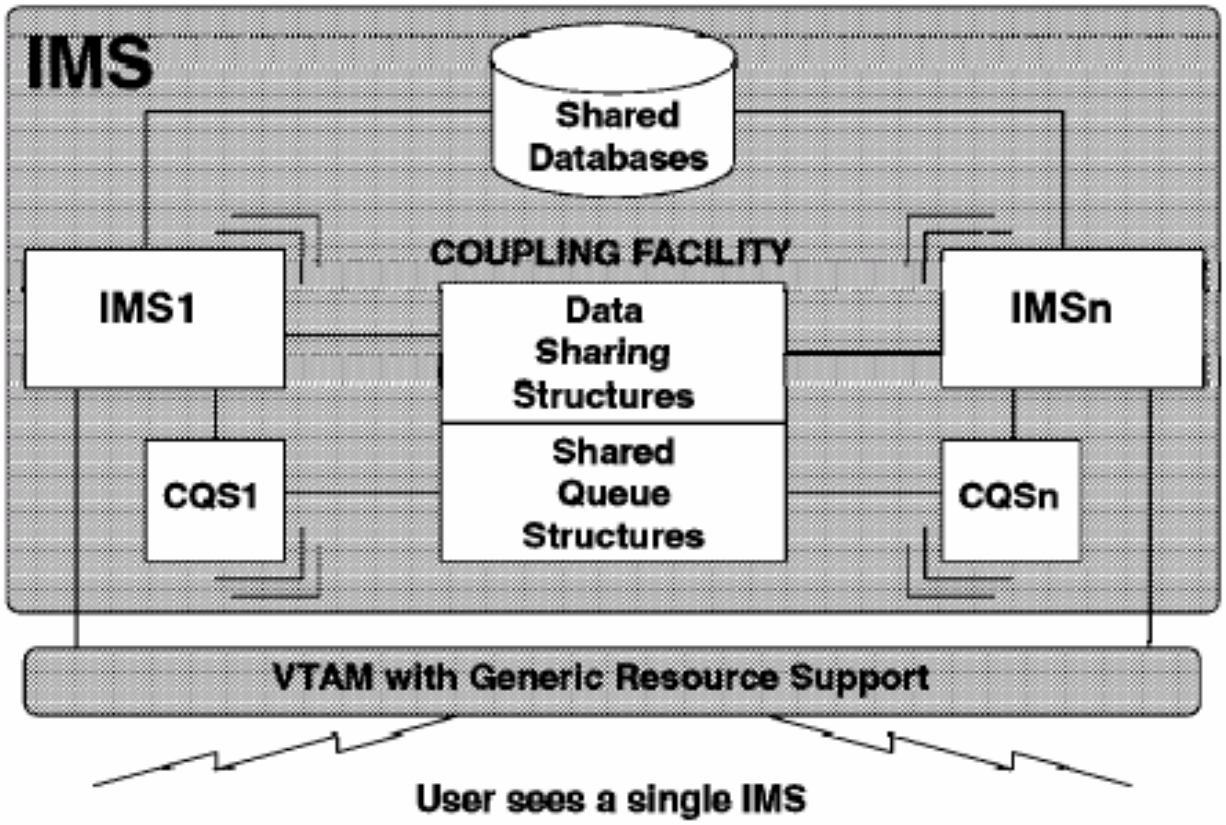
DRL2072I Statistics for NODEs created this run:
-------------------------------------------------------------
 NODE            NODE   Initially      Total       NODEs
 type          length   allocated    allocated     pending
-------------------------------------------------------------
 OUOW              52      182000       182000         449
  F1=Help    F2=Split   F3=Exit    F5=Rfind   F7=Up      F8=Down    F9=Swap
 F10=Left   F11=Right  F12=Cancel
```

```
  Menu  Utilities  Compilers  Help
 ------------------------------------------------------------------------------
 BROWSE    LONGOBA.COLLECT.JOBOUT                  Line 00000114 Col 001 080
 Command ===> _                                      Scroll ===> CSR
 PUOW              44      418000       418000        1258
 PSB               40      180000       270000        6079
 IMS               70     5775000      5775000       17658
-------------------------------------------------------------
 TOTALS           206     6555000      6645000       25444
-------------------------------------------------------------
DRL2052I IMS log processing stopped at 2001157F 1525073F.
DRL0310I A database update started after 148815 records due to end of log, at
         2003-01-13-13.34.36.
         Ended Log: LONGOBA.SHARED.IMS6.IMSLOG1.RB
DRL2053I 74269 records were read from DRLLOG1 .
DRL2053I 74546 records were read from DRLLOG2 .
DRL0003I
DRL0315I Records read from the log or built by log procedure:
DRL0317I Record name        !    Number
DRL0318I ------------------!----------
DRL0319I CSQ_V610_COMP      !      3231
  F1=Help    F2=Split   F3=Exit    F5=Rfind   F7=Up      F8=Down    F9=Swap
 F10=Left   F11=Right  F12=Cancel
```

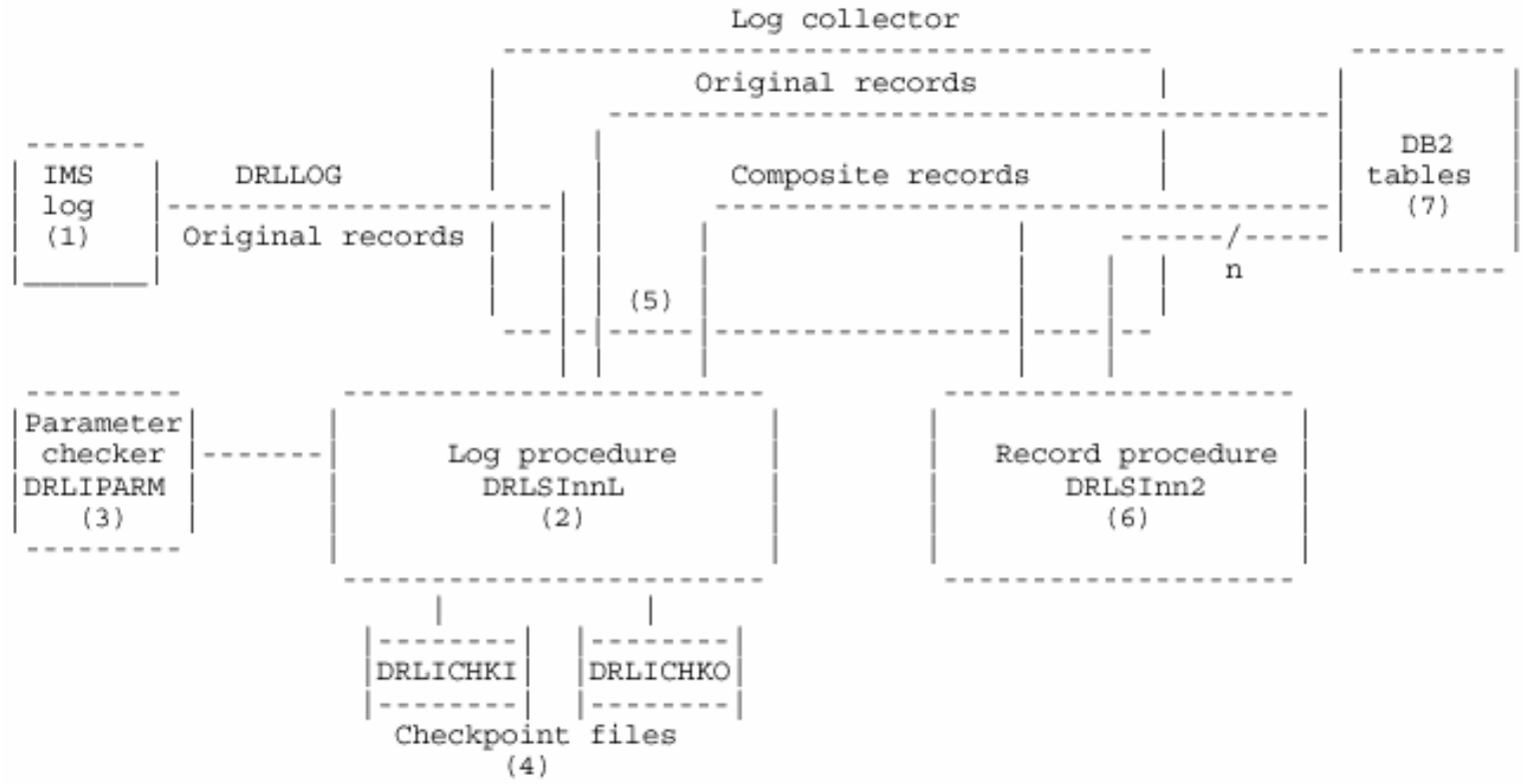
IMS Shared Queue

IMS Shared Queue Component

IMS Shared Queue support have been added to TDS/390's IMS feature. It is a brand new IMS component. (Available on 1.5.0 and 1.5.1 also, with APAR PQ63006).



Data Flow through the Log Collector



Data flow through the log collector.

IMS Message Queue Statistics

The “IMS Message Queue Statistics” support is added to TDS/390 to answer the customer needs to collect statistics about the accumulation of messages in the queue. This will permit to answer to questions like:

- At what time the input queue count begin to increase?
- Which transactions begin to queue?
- How deep did the queue get?

This information is needed not only for after-the-fact problem determination but also for capacity planning, to answer to questions like:

- How the IMS system performs, with the message queue resources, at various points along the transaction arrival rate curve?

New Reports

IMS Msg Queue Utilization by Transaction
Date: 2002-12-05
IMS System: 'CSSD '
Queue Type: 'MSGQ LOCAL '

		<-Input Message->					<-Output Message->				
Time	Transaction Name	FpMsg	ShMsg	LgMsg	Processed	AvgTime	FpMsg	ShMsg	LgMsg	Processed	AvgTime
15.15	HC9CHKRT	-	1.00	0.00	1	0.00	-	0.00	0.00	0	0.00
	HC9PMUT0	-	1.00	0.00	2	0.40	-	0.00	0.00	0	0.00
	HC9SWFT0	-	0.00	4.00	2	0.10	-	0.00	0.00	2	0.00
	HC9T100T	-	0.00	1.00	2	0.00	-	0.00	0.00	2	0.00
	HC9T200T	-	0.00	3.50	2	0.00	-	0.00	0.00	0	0.00

IMS Msg Queue Utilization by Transaction, Date report

IMS Msg Queue Utilization, Date Report
Date: 2002-12-05
IMS System: 'CSSD '
Queue Type: 'MSGQ LOCAL '

	<-Input Message->					<-Output Message->				
Time	FpMsg	ShMsg	LgMsg	Processed	AvgTime	FpMsg	ShMsg	LgMsg	Processed	AvgTime
15.15	-	0.16	1.38	251	0.21	-	0.00	0.00	217	0.00
15.30	-	0.15	9.06	481	0.45	-	0.00	0.00	393	0.00
15.45	-	1.39	20.84	463	0.43	-	41.90	0.00	421	0.00
16.00	-	0.49	2.41	459	0.18	-	6.21	0.00	438	0.00
16.15	-	0.12	5.08	368	0.23	-	0.00	0.00	362	0.00
16.30	-	0.10	14.42	278	0.29	-	0.00	0.00	266	0.00

IMS Msg Queue Utilization, Date report

Tivoli Decision Support: CSQTQ01

New Reports

IMS Transaction Arrival Rate and Msg Queue Usage
Date: '2002-07-17' to '2002-07-19'
IMS System: 'CSSD '
Queue Type: 'MSGQ LOCAL '

	<--Transaction-->		<--------------Input Message-------------->					<--------------Output Message-------------->				
Date	Total	Rate	FpMsg	ShMsg	LgMsg	Processed	AvgTime	FpMsg	ShMsg	LgMsg	Processed	AvgTime
2002-07-17	3841	0.0445	-	0.24	10.56	3841	0.36	-	5.20	0.00	3609	0.00
2002-07-18	7000	0.0810	-	1.00	20.30	7000	0.70	-	6.30	4.00	6500	0.40
2002-07-19	4511	0.0522	-	0.50	11.20	4511	0.46	-	3.20	2.00	4211	0.20

IMS Transaction Arrival Rate and Msg Queue Usage, Daily Trend

Tivoli Decision Support: CSQTQ04

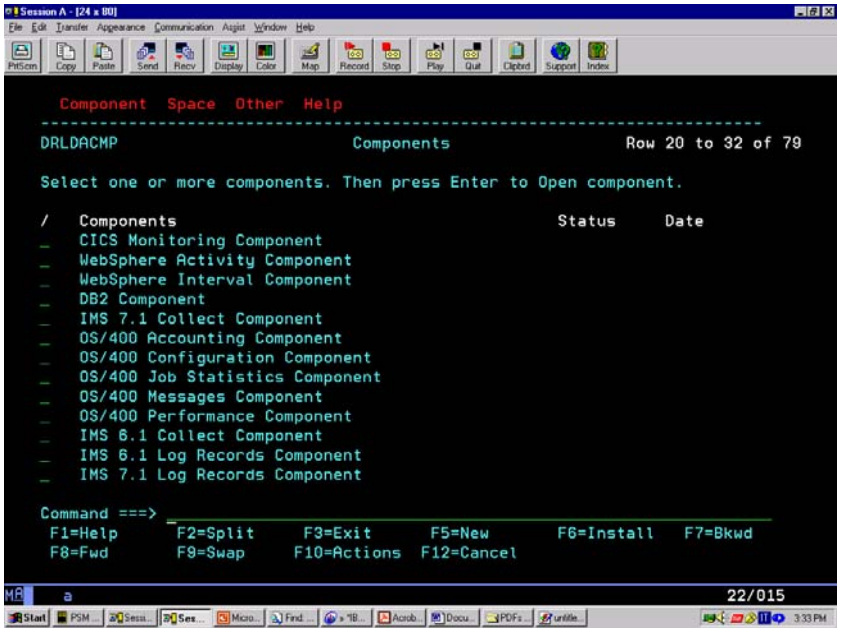
IMS Msg Queue Utilization Overview, Daily Report
Date: '2002-07-17' to '2002-07-17'
IMS System: 'CSSD '

		<--------------Input Message-------------->					<--------------Output Message-------------->				
Date	Queue Type	FpMsg	ShMsg	LgMsg	Processed	AvgTime	FpMsg	ShMsg	LgMsg	Processed	AvgTime
2002-07-17	EMHQ LOCAL	1.00	-	-	1	0.00	1.00	-	-	1	0.63
	MSGQ LOCAL	-	0.24	10.56	3841	0.36	-	5.20	0.00	3609	0.00

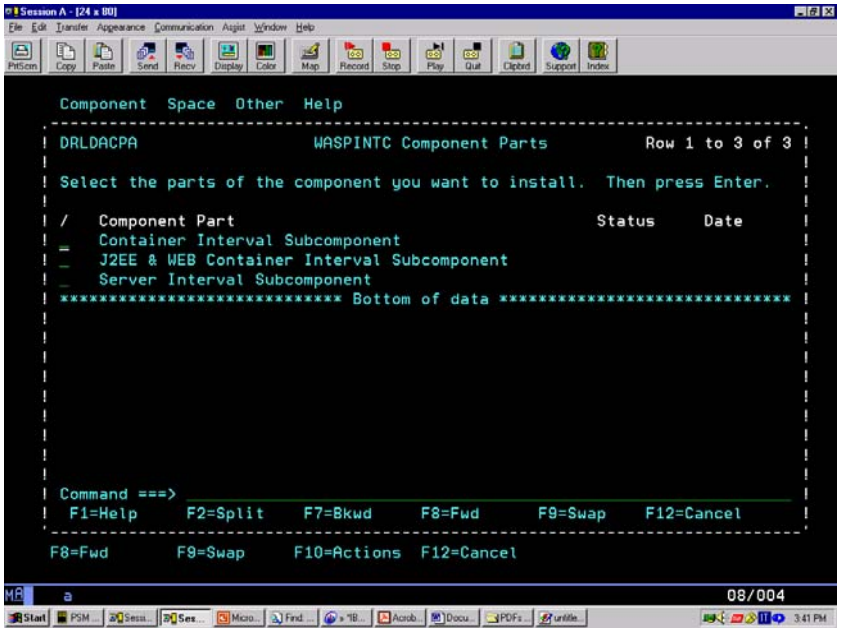
IMS Msg Queue Utilization Overview, Daily Report

Tivoli Decision Support: CSQTQ03

Installation Options



Using the administration dialogue, access to component panel DRLDACMP
and the following WebSphere components will be reported in the component list:



Selecting the component to install (here, the WebSphere Interval Component) and pressing F6, because the WebSphere component contains subcomponents, TDS for OS/390 displays the WASPINTC Component Parts window

Archive Facility: Reorg/Discard Utility

- The Reorg/Discard Utility enables you to delete the data contained in the tables using the *Purge Condition* present in the DRLPURGECOND table pre-loaded in Tivoli Decision Support for OS/390. At the same time the Reorg/Discard utility automatically reorganizes the table space where data has been deleted.

- ***The Reorg/Discard Utility can be a valid alternative to the Purge Utility!***

The first way: from Tables Window select the option 12 in the Utilities pull-down menu

In this way, the data contained in the Table (or Tables) selected from the Table list is Discarded, and a space reorganization is automatically performed in the Tablespace where the selected Tables reside.

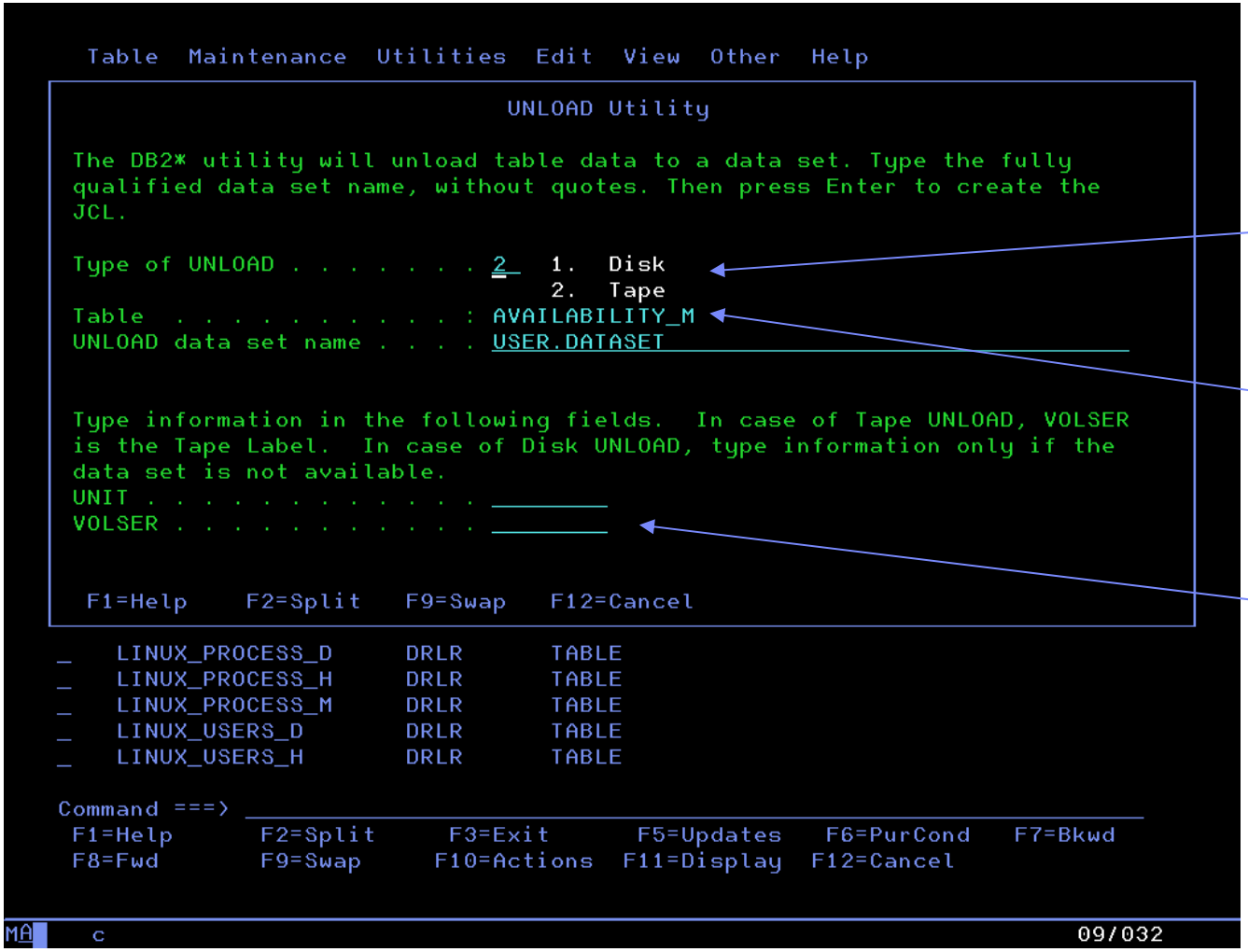
Therefore, Discard operation is performed only on the selected Tables, while Reorg operation is performed on ALL the Tables contained in the Tablespace.

Unload and Load Utilities

- ***Unload Utility*:** is used to Unload data from one table. Unload must be run on the system where the definitions of the tablespace and the table exist. The dataset, used for the Unload operation of data, can be saved on Disk (sequential dataset) or, with this new enhancement, on Tape.
- ***Load Utility*:** is used to Load data in a table in tablespace. Load loads records into the table and build or extend any indexes defined on them. If the tablespace already contains data, you can choose whether you want to add the new data to the existing data or replace the existing data. The dataset, used for the Load operation of data, can be read from Disk or, with this new enhancement, from Tape.

From Tables Window select the option 10 in the Utilities pull-down menu

New Unload Facility

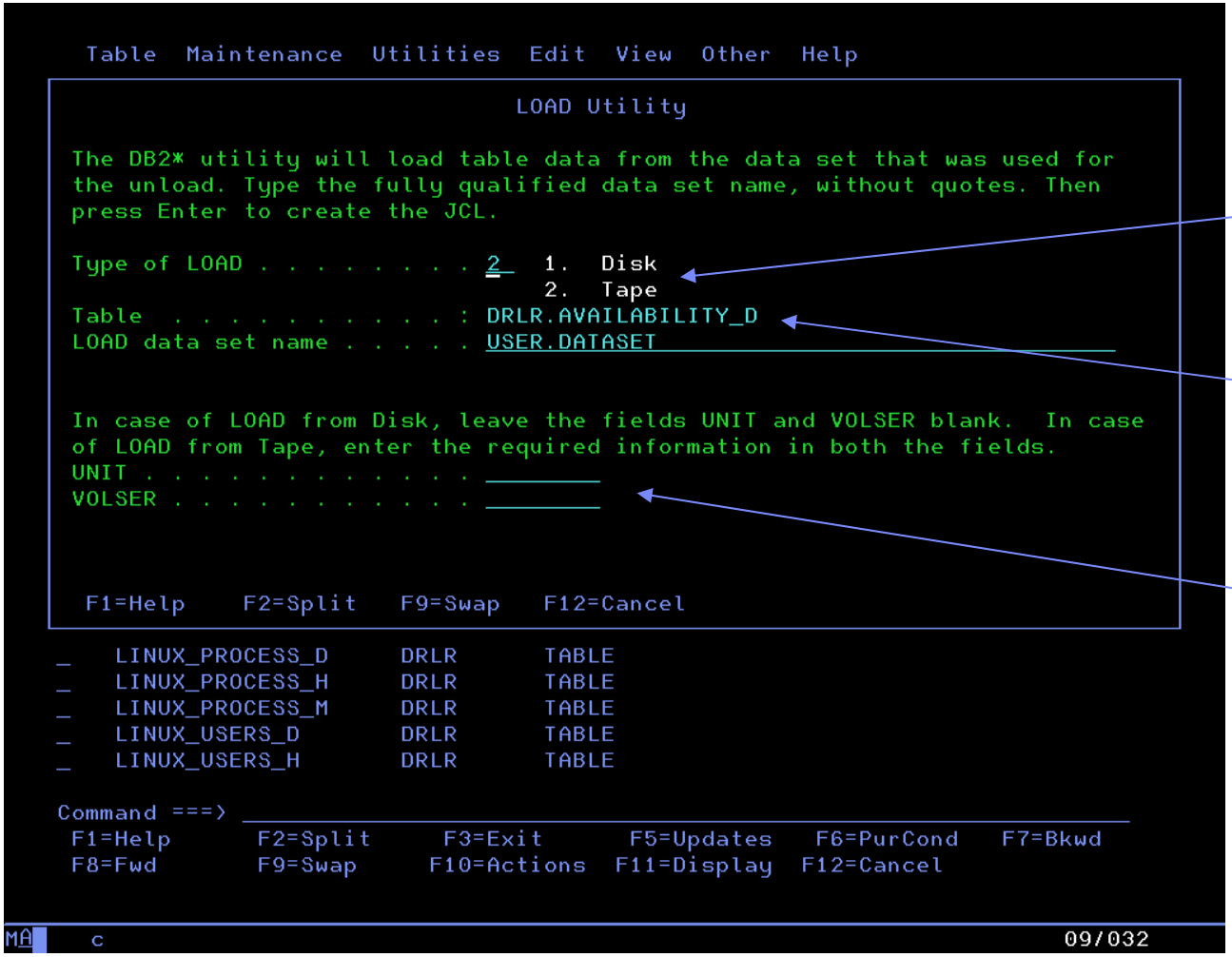


Select the type of Unload: Disk or Tape

This is the selected Table from precedent panel (Tables Window)

Specify UNIT and VOLSER

New Load Facility



Select the type of Load: Disk or Tape

This is the selected Table from precedent panel (Tables Window)

Specify UNIT and VOLSER (always in case of Tape Load)

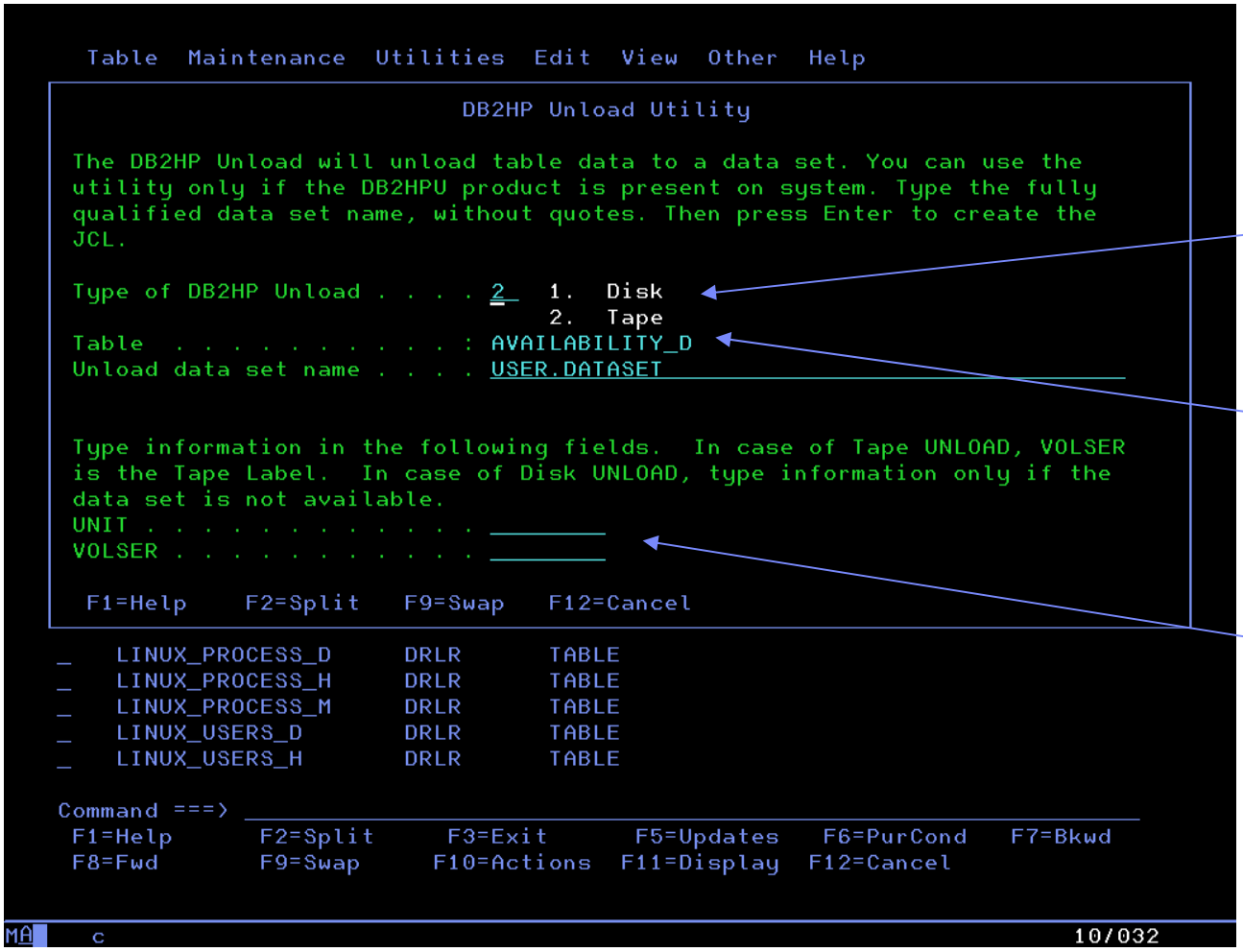
DB2 Unload Facility

- The *DB2 High Performance Unload* (hereafter called DB2 HPU) is a high-speed DB2 product for unloading DB2 tables from either a tablespace or an image copy. Tables are unloaded to one or more files based on a specified format. You can use it to extract data for movement across enterprise systems or for reorganization in-place.

DB2 HPU can do the following:

- Rapidly Unload tablespaces;
- Parallel execution of several Unloads accessing the same tablespace;
- Do Unload against any image copy to eliminate interference with DB2 production databases;
- Unload selected rows and columns;
- Unload every *n* rows and maximum rows;
- Generate Load control statements for subsequent reload.

DB2 Unload Utility Panel



Select the type of DB2 HP Unload: Disk or Tape

This is the selected Table from precedent panel (Tables Window)

Specify UNIT and VOLSER

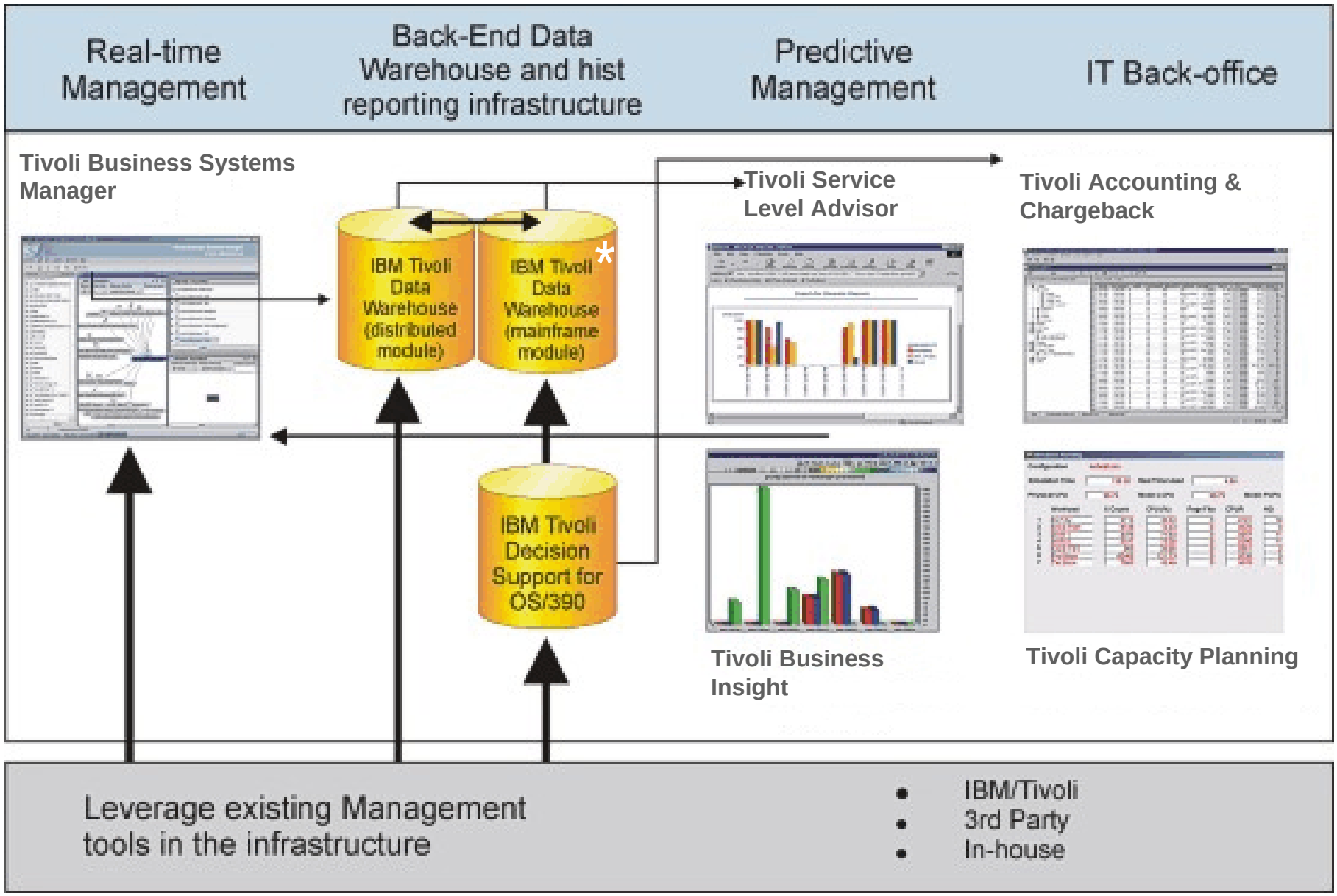
Packaging

- **Packaging**
  - TDS/390 V1.6 will be shipped via tapes and CD for the Java console
  - A&C console (part of the A&C feature) will be shipped via CD
  - ETLs for TDW/390 enablement pack (delivered later than TDS390 GA via a separate media)
  - **NLS Packaging (2 months after English GA, 08/03)**
  - Kanji for 390 objects and Java console
  - TDW/390 Enablement pack (ETLs) will be translated in the standard 9 languages (delivered later than TDS390 GA via a separate media)
  - A&C console will be traslated in the same 5 languages as previous release (Chinese, Japanese, Korean, Braz/Portuguese, Spanish)
- **Updated Pricing Goals (announced in November ’02)**
  - MLC pipe for 5695- 101: NO CHANGE
  - OTC pipe for 5698-TD9 under Passport Advantage: Points is now on MSU curve instead of the previous “by apps server”.
  - OTC pipe for 5698-TDW under Passport Advantage: Points are now on MSU
  - **TDS/390 v1.6 (GA 06/03) is priced in accordance with the November ’02 new pricing model**
- **Announcement Letter**
  - **203086 April 2003**
  - **Planned Availability: June 27, 2003**

Agenda

- What is Tivoli Decision support for OS390?
- Reports
- Support for IMS Release 8
- TDS/390 V1R6 evolution toward Tivoli Data Warehouse

Solving IT Business pains….



* The zSeries enablement pack for Tivoli Data Warehouse will be available in 1Q04 as PTF on top of Tivoli Decision Su for C 0 V1

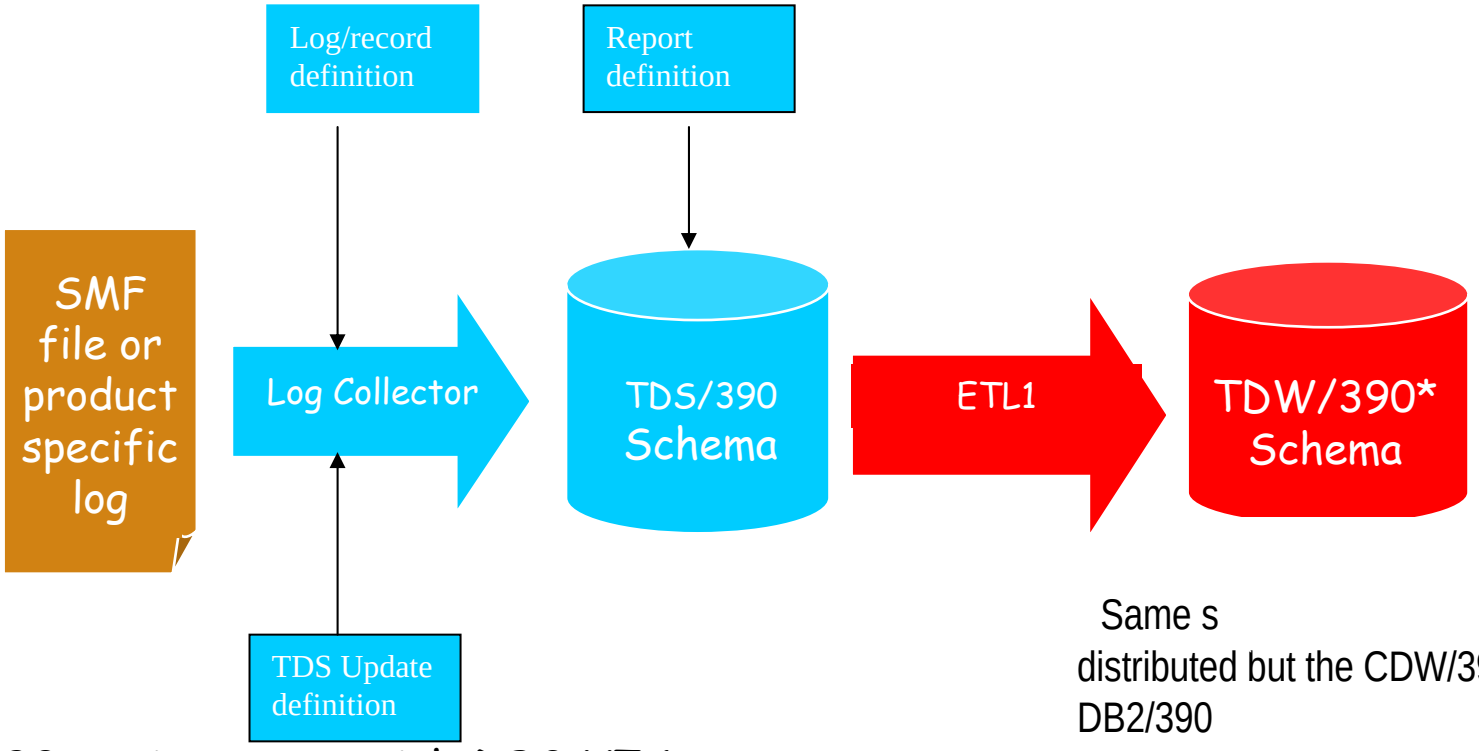
TDS/390 v1.6 Offering Content – Main enhancements (first step)

- ✓390 ETL development for TDW/390 enablement pack
- ✓Prioritized support for existing and new application data sources:
  - Available at April '03 (other delivery media):

Current - Z/OS, IMS, DFSMS, TWS 390 , DB2, NPM, MQSeries,RMF,CICS, NPMIP

  - Available at TDS/390 1.6 GA (June '03)

New - WebSphere for z/OS



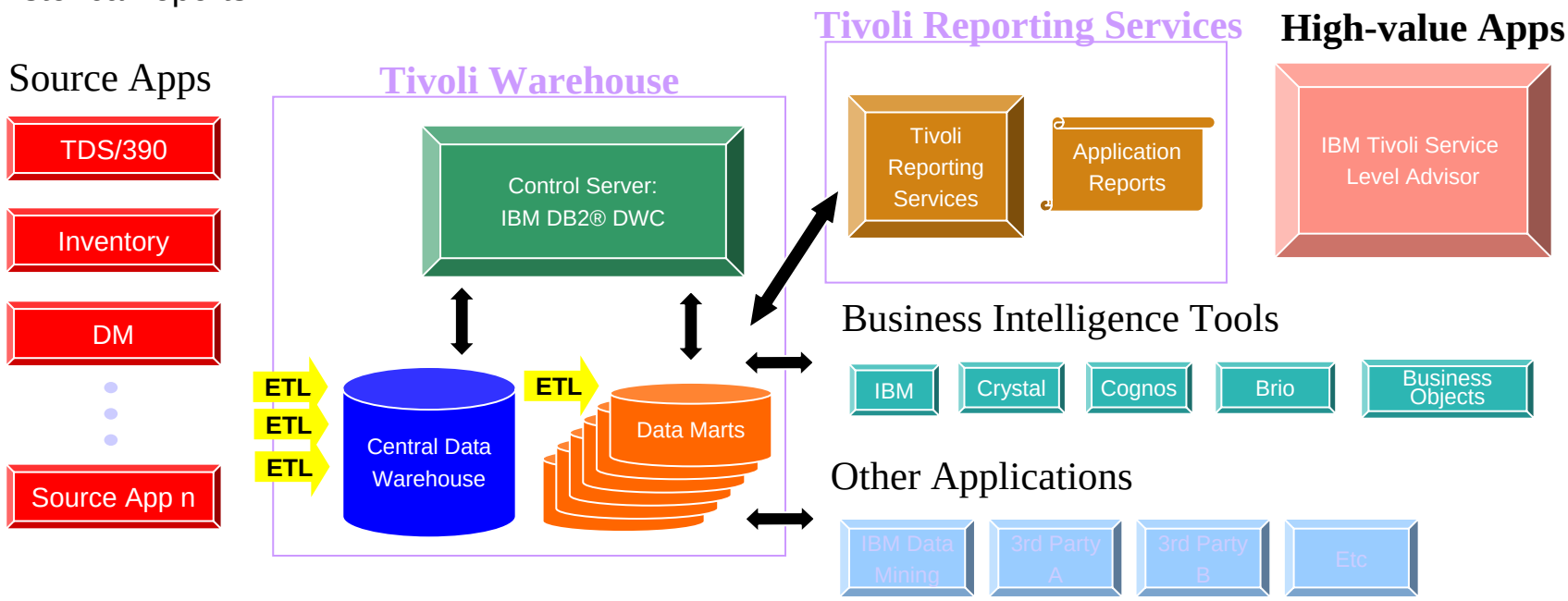
Same s the CDW distributed but the CDW/390 resides on DB2/390

OS/390 environment with DB2 V7.1

Overall Evolution

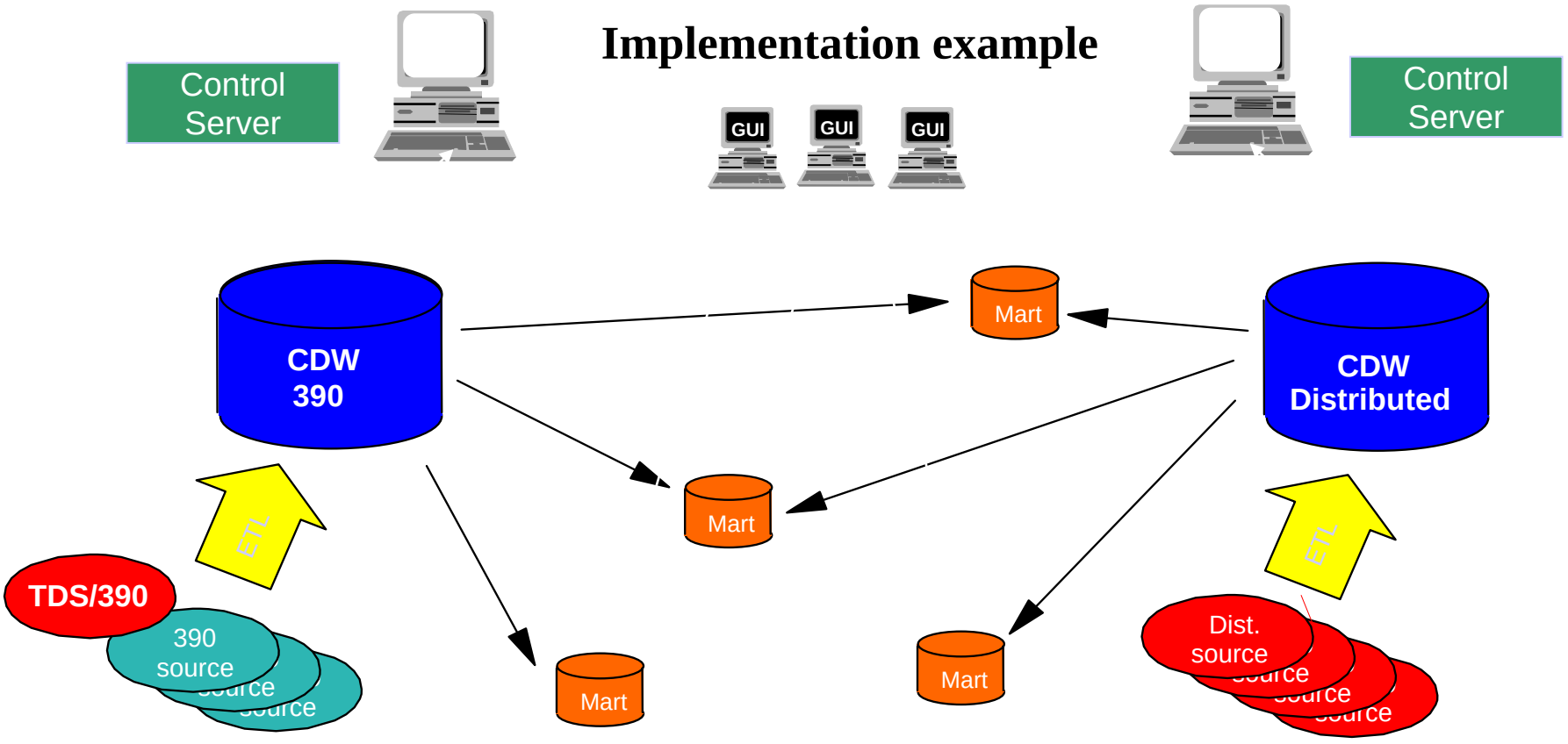
Strategic Fit & Positioning

- **Tivoli Enterprise Data Warehouse** is the centralized data store where historical systems management data from all applications is aggregated and correlated for use by:
  - Reporting and 3rd party OLAP tools
  - Planning, trending, analysis, accounting, and data mining tools
- **Tivoli Reporting Services** is the common reporting infrastructure for generating simple web-based historical reports



Tivoli Data Warehouse – implementation example

- One “logical” warehouse may result in multiple physical CDWs
- For example: Geography or environment (distributed vs. 390)
- Data Marts can be built from data residing in any one or multiple CDWs



Tivoli Data Warehouse - summary

- Leveraging a proven warehouse architecture and DB2 technology
- Schemas will be open and published
- Applications will provide free standard reports
- Open to all systems management data
- Provides the underlying infrastructure for value-add applications

External Resources

Yahoo Group Teamrooms groups.yahoo.com (NPMIP, NPM, NetView, TBSM_Users)

Tivoli software homepage -- *http://www-3.ibm.com/software/tivoli/*

Tivoli UserGroups –*http://www-3.ibm.com/software/sysmgmt/products/support/Tivoli_User_Groups.html*

Tivoli Customer Portal --*https://www6.software.ibm.com/reg/tivoli/custport-I*

Tivoli Education -- *http://www-3.ibm.com/software/tivoli/education*

Tivoli Software Events -- *http://www-3.ibm.com/software/tivoli/news/events/*

Tivoli Best Practices -- ***http://www-3.ibm.com/software/tivoli/features/oct2002/best.html***

IBM Link - *http://www.ibmlink.ibm.com/*.

IBM Manuals - *http://w3.ehone.ibm.com/public/applications/publications/cgibin/pbi.cgi*.

IBM Software for zSeries On Demand Events -*http://www-3.ibm.com/software/is/mp/s390/ondemand/*

Thank You!

QUESTIONS?