



EPV for DB2 Release Notes



*IT Cost
Under Control*

Supporting
EPV for DB2 V7
EPV for DB2 Plus V7

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About this manual

This manual provides a description of the most important enhancements in EPV for DB2 Version 7.

Changes

Technical changes or additions to the text are indicated by a vertical line to the left of the change.



1. Major Enhancements

EPV for DB2 V7 includes the following major enhancements:

- dynamic statement cache activity (including CSWL);
- package statistical analysis;
- accounting reports.

1.1. Dynamic statement cache activity

EPV provides all the information needed to analyze global and local dynamic statement cache effectiveness.

Detailed analysis of full prepare operations allows to identify the involved applications.

For DB2 10 subsystems a complete analysis of the effects of the Concentrate Statements With Literals (CSWL) prepare attribute is also provided.

1.2. Package statistical analysis

Package statistical analysis is now provided in order to identify individual packages showing CPU consumptions or elapsed time which are outside their normal variability.

Based on recent behavior, statistical thresholds are automatically built and, more important, they are “self-adaptive” which means that you don’t have to manually set any thresholds.

1.3. Accounting reports

EPV provides the possibility to produce “on demand” Short and Long Accounting Reports at summary or detail level for plans and packages running during a specific period of time.

This makes it possible to investigate in depth the behaviour of these objects running in a DB2 subsystem in order to analyze performance problems and anomalies.



2. Usability enhancements

The major usability features added are:

- Split and Compare;
- Redesigned EPV favorites.

2.1. Split and Compare

The new Split & Compare function allows you to keep the focus on a specific view, split the screen and compare the current day with the previous or next day in a single click.

The following new icons are provided:

- Split the screen vertically and compare with the previous day;
- Split the screen horizontally and compare with the previous day;
- Split the screen horizontally and compare with the next day;
- Split the screen vertically and compare with the next day.

All the icons appear in the view header (see Figure 1).

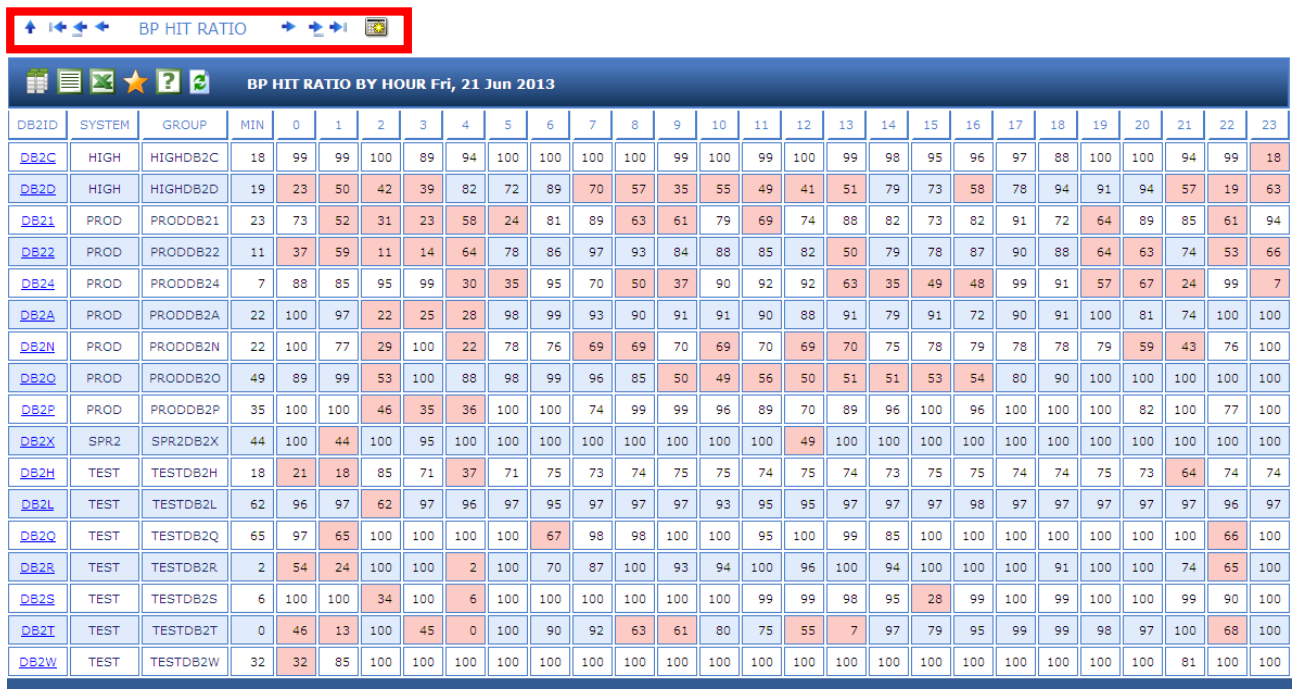


Figure 1

An example of using the Split & Compare function is provided in Figure 2.



Figure 2

2.2. Redesigned EPV favourites

The EPV favourites function has been redesigned in order to include links for all the products of the EPV suite.

EPV favourites can be accessed by clicking the EPV logo at the top left side of the screen.

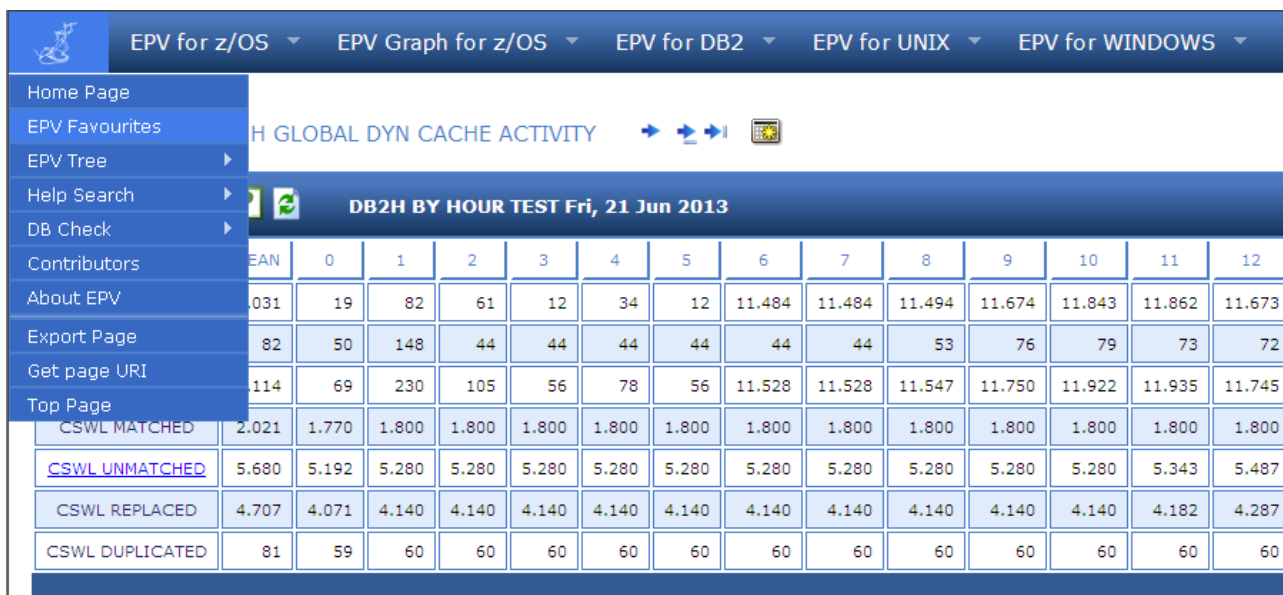


Figure 3

As you can see in Figure 4, a separate section for each EPV product is provided.

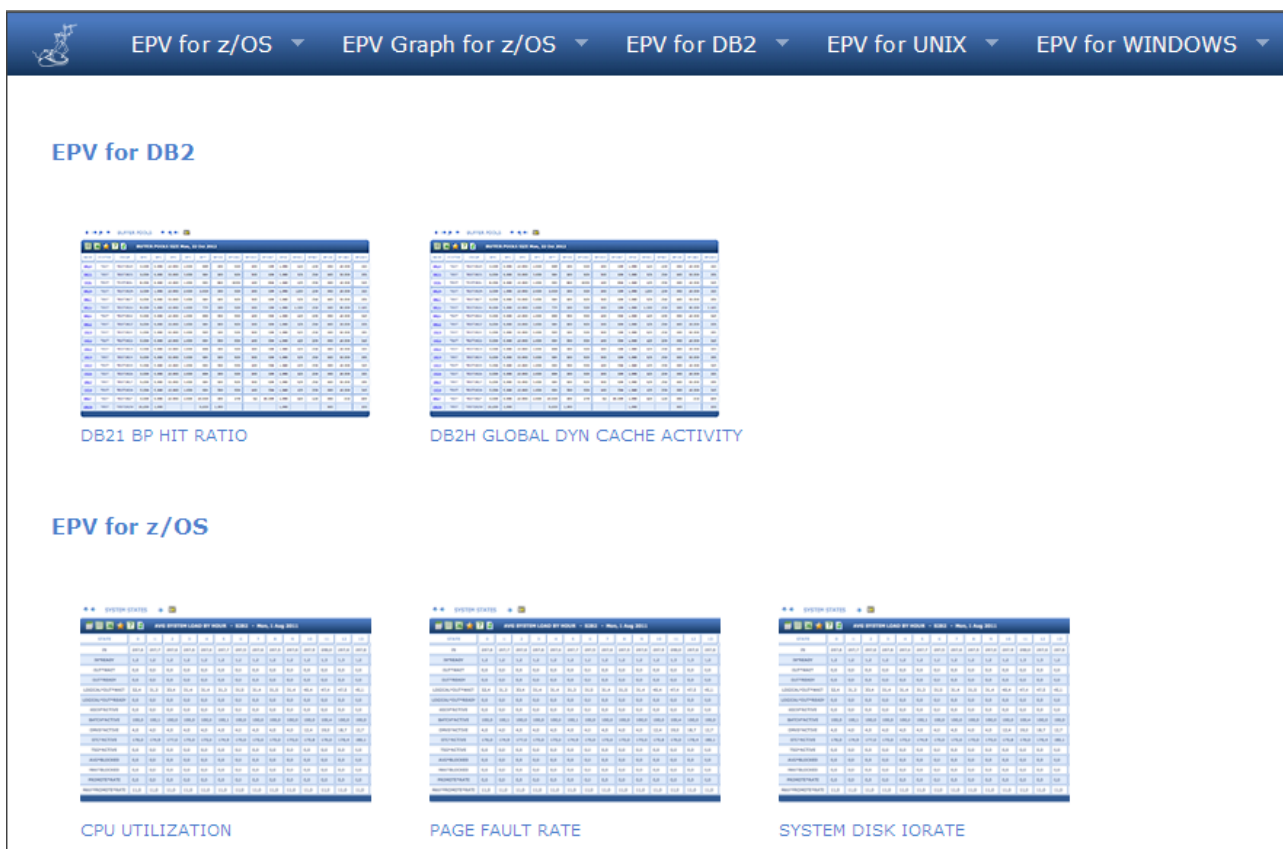


Figure 4



3. New Views

Many views have been modified and many others have been added to the product. The following table reports the list of the new views together with a short description.

COMPONENT	VIEW	DESCRIPTION
SYSTEM AS	MSTR LOG READS	Log read activity of MSTR address space
SYSTEM AS	DB2ID MSTR LOG READS DETAIL	Log read activity of MSTR address space by log buffers, active and archive logs
SYSTEM AS	COMMON STORAGE	Common storage used by DB2
SYSTEM AS	SHARED STORAGE	Shared storage used by DB2
SYSTEM AS	DB2ID COM/SHR STORAGE	Common/Shared storage used by DB2 details
RESOURCES	CHECKPOINTS ACTIVITY	Checkpoints activity
RESOURCES	DS OPEN	Dataset open activity
RESOURCES	DB2ID DS OPEN	Dataset open activity details
RESOURCES	WORKFILES	Workfile usage
RESOURCES	DB2ID WORKFILES	Workfile usage details
EDM POOLS	GLOBAL DYN CACHE HIT	Global Dynamic Statement Cache hit ratio
EDM POOLS	DB2ID GLOBAL DYN CACHE ACTIVITY	Global Dynamic Statement Cache activity
EDM POOLS	DB2ID FULL PREPARE	Top plans by number of full prepare
EDM POOLS	DB2ID CSWL UNMATCHED	Top plans by number of CSWL unmatched
EDM POOLS	LOCAL DYN CACHE HIT	Local Dynamic Statement Cache hit ratio
EDM POOLS	DB2ID LOCAL DYN CACHE ACTIVITY	Local Dynamic Statement Cache activity
BP/GBP POOLS	BP PAGING RATE	Total buffer pool paging rate
BP/GBP POOLS	DB2ID BP PAGING RATE	Paging rate by buffer pool
BP/GBP POOLS	BP DS OPEN RATE	Total buffer pool dataset open rate
BP/GBP POOLS	DB2ID BP DS OPEN RATE	Dataset open rate by buffer pools
BP/GBP POOLS	GBP READ XI MISS RATIO	Total group buffer pool read miss ratio due to cross invalidation
BP/GBP POOLS	DB2ID GBP READ XI MISS RATIO	Read miss ratio due to cross invalidation by group buffer pool
WORKLOADS	TOTAL OUTLIERS	Package outliers by sharing group
WORKLOADS	SHARING GROUP OUTLIERS	Package outliers by DB2 subsystem
WORKLOADS	DB2ID PACKAGE CPU DEVIATION	Package outliers for CPU usage in a DB2 subsystem
WORKLOADS	DB2ID PACKAGE ELAPSED DEVIATION	Package outliers for average elapsed time in a DB2 subsystem
CRITICAL EVENTS DAILY TRENDS	DB2ID ABENDS SHORT ON STORAGE	Daily trends of the total number of short on storage abends
CRITICAL EVENTS DAILY TRENDS	DB2ID CRIT STORAGE CONTRACTIONS	Daily trends of the total number of critical storage conditions
CRITICAL EVENTS DAILY TRENDS	DB2ID STORAGE CONTRACTIONS	Daily trends of total number of storage contractions
RESOURCES DAILY TRENDS	WORKFILES	Daily trends of workfile space used



RESOURCES DAILY TRENDS	<i>DB2ID</i> WORKFILES	Daily and hourly profile of workfile space used
RESOURCES WEEKLY TRENDS	WORKFILES	Weekly trends of workfile space used
RESOURCES MONTHLY TRENDS	WORKFILES	Monthly trends of workfile space used
REPORTS	SHORT ACCOUNTING PLAN SUMMARY	Short accounting plan summary
REPORTS	SHORT ACCOUNTING PACKAGE SUMMARY	Short accounting package summary
REPORTS	SHORT ACCOUNTING PLAN DETAIL	Short accounting plan detail
REPORTS	SHORT ACCOUNTING PACKAGE DETAIL	Short accounting package detail
REPORTS	LONG ACCOUNTING PLAN SUMMARY	Long accounting plan summary starting page
REPORTS	ELAPSED SUMMARY	Long accounting plan summary - elapsed, CP and wait time
REPORTS	LOCK SUMMARY	Long accounting plan summary - lock activity
REPORTS	SQL SUMMARY	Long accounting plan summary - DML SQL activity
REPORTS	RID/LOG SUMMARY	Long accounting plan summary - RID pool and log activity
REPORTS	NESTED SUMMARY	Long accounting plan summary - stored procedure, UDF and trigger activity
REPORTS	DYNAMIC SQL SUMMARY	Long accounting plan summary - dynamic SQL activity
REPORTS	BP SUMMARY	Long accounting plan summary - buffer pool activity
REPORTS	PACKAGE SUMMARY	Long accounting plan summary - package activity
REPORTS	LONG ACCOUNTING PLAN DETAIL	Long accounting plan detail starting page
REPORTS	ELAPSED DETAIL	Long accounting plan detail - elapsed, CP and wait time
REPORTS	LOCK DETAIL	Long accounting plan detail - lock activity
REPORTS	SQL DETAIL	Long accounting plan detail - DML SQL activity
REPORTS	RID/LOG DETAIL	Long accounting plan detail - RID pool and log activity
REPORTS	NESTED DETAIL	Long accounting plan detail - stored procedure, UDF and trigger activity
REPORTS	DYNAMIC SQL DETAIL	Long accounting plan detail - dynamic SQL activity
REPORTS	BP DETAIL	Long accounting plan detail - buffer pool activity
REPORTS	PACKAGE DETAIL	Long accounting plan detail - package activity

Legend:

DB2ID means DB2 subsystem id

BP means Buffer Pool

GBP means Group Buffer Pool

An italic word in the view name means that a specific view is produced for each instance of the object written in italics.



4. Customer support

For any technical problems or questions about EPV for DB2 please email:

epv.support@epvtech.com

For any other issue about EPV for DB2 please email:

epv.info@epvtech.com



Related documentation

The following manuals complement the information provided in this manual:

- *EPV for DB2 V7 Installation and Customization Guide*
- *EPV for DB2 Plus V7 Installation and Customization Guide*
- *EPV for DB2 V7 List of Views*
- *EPV for DB2 V7 Database Layout*
- *EPV for DB2 V7 Preparing Input for a Demo*
- *EPV V11 User Interface*