



# EPV for DB2

IT Cost under Control

Data Sheet

## EPV for DB2 Overview

- If you can't get the information you need at the click of a mouse...
- If you don't have a complete overall picture of DB2 subsystems and applications...
- If you can't quickly identify DB2 critical events and application anomalies...
- If you are reacting to telephone calls and have no time to put in place trend and other reports you need to be more pro active...

EPV for DB2 is the solution for you.

EPV for DB2 is an "out of the box" Performance and Tuning solution for DB2 environments of any size and complexity.

EPV for DB2 uses standard input data normally available in any z/OS environments (mostly SMF records).

A complete and extensive help system is embedded in EPV for DB2 providing detailed technical information making it an excellent self training tool.

Through automatic discovery techniques and built-in rules, based on more than 30 years know-how, EPV collects, relates and aggregates all necessary data transforming the bits and bytes in useful information, in a process completely transparent to the users.

EPV for DB2 provides:

- a complete vision of all critical DB2 events which can impact DB2 subsystems "health";
- DB2 resource utilization views to analyze DB2 CPU overhead, virtual memory usage, logging activity, all DB2 pools, deadlocks and timeouts;
- a complete vision of DB2 workloads starting from Data Sharing Groups to verify Sysplex balancing to plan, authid, correlation, transaction and package analysis for each connection type;
- a detailed report of DB2 parameters and configuration, auditing any change;
- daily and monthly trends designed to support pro active tuning activities.

All views are produced in static HTML pages enriched by powerful Javascript functions. They can be published on any web server and can be accessed by any "browser".

DB21 TOP CPU PACKAGE

TOP 10 CPU PACKAGE BY HOUR PROD - DB21

DB2ID	SYSTEM	PACKAGE NAME	CONNTYPE	MAX	8	9	10	11	1
DB21	PROD	S2230014	BATCH	648,14					
DB21	PROD	SYSLN300	RRSAF ATTACH	63,06	3,37	63,06	30,26	38,56	43
DB21	PROD	DSNTIAUL	BATCH	245,76	5,12	3,64	7,11	5,28	5
DB21	PROD	S6140665	BATCH	101,00	48,73	61,05	54,07	101,00	45
DB21	PROD	S6950710	DL/I BATCH	167,54					
DB21	PROD	S61406D8	BATCH	91,18	34,30	2,13	4,18	6,68	6
DB21	PROD	S61406G3	BATCH	78,59	20,06	0,76	1,74	3,80	3
DB21	PROD	DSQGESQM	DB2 CALL ATTACH	27,22	18,15	22,92	27,22	18,01	17
DB21	PROD	S61406A6	BATCH	30,55	30,55	10,11	8,67	8,48	10
DB21	PROD	S6175190	BATCH	148,77					

## DB2 WORKLOADS

### DB2 TOP CPU PACKAGE

This view shows the TOTAL CPU usage hourly profile of the TOP PACKAGEs inside a DB2 subsystem (see Note 1). The PACKAGEs reported in the table are selected by the highest total CPU consumption summed across all the executions; the table is sorted by descending values.

CPU usage (see Note 2) is provided in MIPS and SEC (CPU seconds). By clicking the combo-box at the top-right side of the table it's possible to choose the metric to analyze.

The MAX column shows the value measured in the peak hour of the day.

Note 1: The number of different PACKAGEs reported is determined by the value of the TOPPACK parameter provided in the DCONFIG member of the USERLIB library. The default value is 10.

Note 2: CPU seconds and derived MIPS values are based on Class 7 (in DB2) CPU time recorded inside SMF 101 records.

## Simple and quick installation

Typically EPV for DB2 is installed within one day. The installation process is straightforward and easy and has absolutely no impact on the system. It works "out of the box" with no customization other than providing input and output destinations. This allows for rapid delivery of benefits since the second day.

EPV for DB2 can be installed on most of the popular hardware and software platforms available in the market.

## Easy to use

Using EPV for DB2 is intuitive and easy. Users have just to click on automatic created exceptions to analyze most critical issues. Predefined navigation paths are also provided driving less experienced analysts to the most detailed information using a top-down approach. Many additional functionalities make EPV for DB2 usable and effective.

## EPV for DB2 Unique Technical Features

### Design & Architecture

- EPV processing is completely automatic and is based on auto discovery techniques.
- EPV runs on any platform.
- EPV Performance Data Base can be either a SAS database or a SQL database.
- EPV results can be published on any platform.
- EPV results can be archived and then reused at a later date. It is then possible to look at them separately or include them in the production report structure.
- No clients are needed, only a standard browser.
- Every EPV report can be exported to Excel with just a click of the mouse.

### Reports

- DB2 critical events by DB2 subsystem, including navigable daily and monthly trends.
- DSNZPARM parameters.
- DSNZPARM changes.
- DB2 configuration.
- DB2 configuration changes.
- DB2 overhead estimate in MIPS and percentage of DB2 workload.
- Deadlock and timeout navigation up to the suffering plan, including navigable daily and monthly trends.
- Database and tablespace statistics, including navigable daily and monthly trends.

- EDM, DBD, Dynamic, Buffer pool and Group Buffer pool analysis, including navigable daily and monthly trends.
- Complete workload navigation by connection type from data sharing group up to the package level.
- Complete workload navigation by DB2 subsystems from data sharing group up to the package level.
- Navigable workload daily and monthly trends.
- Automatic logging and reporting of all the plan executions using more than a user customizable amount of CPU.
- Automatic logging and reporting of all the plan executions lasting more than a user customizable elapsed time.
- Automatic logging and reporting of all the package executions using more than a user customizable amount of CPU.
- Automatic logging and reporting of all the package executions lasting more than a user customizable elapsed time.

### Automatic alerting

- EPV automatically provides a log of the changes made to the DB2 parameters and configuration.
- EPV provides a set of user definable thresholds to provide exception alerts to performance problems and excessive resource usage workloads.
- EPV alerts can be automatically and selectively distributed to technical groups and managers.

## EPV for DB2 Unique Business Benefits

- EPV saves up to 90% of the time required by technical staff to identify and correct problems, do reporting and perform tuning activities.
- EPV allows free self-education of technical staff about all the newest hardware and software technologies.

- EPV greatly increases control over the DB2 environment allowing to get usable resources back by easily identifying and eliminating DB2 subsystem and application anomalies.

## EPV for DB2 Unique Pricing

- EPV license is based on a onetime fee.
- License cost depends on the number of collected DB2 subsystems, and not on the power of the machine or the power used.
- The first year's maintenance is included; in subsequent years customers have only to pay the maintenance fee.
- Maintenance fee includes all releases and new versions of the product.

- There is no additional license fee if the customer changes the platform where EPV runs.
- There is no additional license fee if the customer changes the database type.
- EPV is developed in two product lines: stand alone or taking input from SAS/MXG or SAS/ITRM; there is no additional license fee if the customer wishes to change from one product line to the other.



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