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IT Cost  
Under Control

# EPV Technologies

## Newsletter

August 2025

### THIS MONTH HIGHLIGHTS

- **EPV User Group 2025 announcement**
- **Identifying batch jobs anomalies**

### EPV User Group 2025 announcement

The XXIII EPV User Group will be virtual again. It will be held on November 10<sup>th</sup> and repeated on November 11<sup>th</sup>.

As in 2024 at the beginning of the day we will have two training sessions dedicated to new Performance Analysts.

The preliminary agenda will be published in the next newsletter.

The EPV User Group is a "not to miss" event for all Performance Analysts; it will give you the opportunity to share ideas with qualified experts and to listen to some of the EPV customers experiences. The most interesting features provided by the latest versions of all EPV products will also be presented.

The EPV User Group is free of charge and reserved to EPV customers. If you are not a customer yet but you are interested in participating, please answer to this e-mail asking for an invitation.

Mark these dates in your agenda to avoid missing this event.

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## Identifying batch jobs anomalies

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Batch processing is still a key component of the workload of any z/OS environment.

Frequently happens that some batch job significantly increases its resource usage and/or elapsed time.

As batch processing usually runs in the night shift and it is not triggered by a user waiting for an immediate response, such events are often not identified and then analyzed and tuned.

In this paper we will describe a methodology to automatically identify these issues by exploiting SMF records collected into a performance database and simple statistical concepts.

*If you want to receive this paper, you can reply to this e-mail writing **"Identifying batch jobs anomalies"** in the subject.*

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### ***Customer question***

We noticed that, in development and test systems, Db2 Address Spaces (MSTR, DBM1 and IRLM) do not use zIIPs while in production systems zIIPs are used both by MSTR and DBM1 (not by IRLM). We checked all the Db2 parameters, but we have not been able to understand the reason for this issue.

Is there any additional check we can do?

### ***EPV Technical Support answer***

IRLM does not use zIIP at the moment.

On the other hand, most of the DBM1 work (the part in SRB mode) is marked zIIP eligible and should run on zIIP.

MSTR should also use zIIP, mostly for logs processing.

We suggest checking the value of the IIPHONORPRIORITY OPT parameter in your systems.

If it is set to NO (default is YES), for all workloads, except Db2, it means that in case of excessive queuing on zIIPs the zIIP eligible load will not be able to benefit from the zIIP\_needs\_help mechanisms and move to the CPUs but will have to wait for a zIIP to become free.

Unfortunately, the behavior of Db2 is different. If this parameter is set to NO, Db2 will

no longer mark any load on MSTR and DBM1 as zIIP eligible, but it will only use the CPUs.

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## DDF classification

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Queries run on Db2 from remote systems are one of the major z/OS workloads at many customers' sites.

To let WLM manage this workload properly it is very important to set appropriate classification rules, importance and performance goals for DDF threads.

In this note we will discuss DDF classification.

First of all, it's important to know that DDF classification has to be done under the DDF subsystem not under Db2.

Then you have to use DDF qualifiers to classify threads in the appropriate service and report classes. There are many possible qualifiers which can be used. The most

relevant are provided in the next table, together with the corresponding fields in IFCID 003 which can be collected from SMF 101.

Code	Qualifier	Description	DB2 SMF field
AI	Accounting information	Accounting information	QMDAAINF
CAI	Client accounting information	The client accounting information	QWDASUFEX
CI	Correlation information	The DB2 thread correlation ID	QWHCCV
CN	Collection name	The DB2 collection name of the first SQL package accessed by the DRDA requestor in the work request	QPACCOLN
CT	Connection type	Connection type	QMDACTYP
CTN	Client transaction name	The client transaction name	QWHCEUTX_Var
CUI	Client userid	The client userid	QWHCEUID_Var
CWN	Client workstation name	The client workstation name or host name	QWHCEUWN_Var
LU	Logical Unit name	The VTAM LUNAME of the system that issued the SQL request.	QWHSLUNM
NET	Netid	The VTAM NETID of the system that issued the SQL request.	QWHSNID
PC	Process name	Client application name	QWHCEUTX
PK	Package name	Name of the first DB2 package accessed	QPACPKID
PN	Plan name	The Db2 plan name of the requesting application.	QMDAPLAN
PR	Procedure name	Stored procedure called. This classification only applies if the first SQL statement from the client is a CALL statement.	QPACAAANM
PX	SYSPLEX name	Sysplex	SYSPLEX
SI	Subsystem instance	DB2 subsystem name	QWHSSSID
SPM	Subsystem parameter	First 16 bytes is the client's user ID, next 18 bytes the client's workstation name	QWHCEUID QWHCEUWN
SSC	Subsystem collection name	DB2 data sharing group name	QWHADSGN
UI	User ID	Primary Authid	QMDAAUTH

Unclassified transactions will fall under the SYSOTHER service class, which has no performance goal and the lowest importance in the system.

## Quotes



“Anything you can do, or dream you do, begin it: boldness has genius, power, and magic in it.”

### **Johann Wolfgang von Goethe**

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