



epv

IT Cost
Under Control

EPV Technologies

Newsletter

July 2021

THIS MONTH HIGHLIGHTS

- Planning disk storage - Part 2
- EPV User Group 2021 – Preliminary Agenda
- Enhanced TFP support

Planning disk storage - Part 2

The capacity planning methodology for disk storage is conceptually about the same as for other resources such as CPU, zIIP, etc.

The basic steps are:

- 1) define the “horizon” of the CP study,

- 2) estimate current machine capacity,
- 3) evaluate the baseline,
- 4) estimate natural and planned growth,
- 5) forecast future needs,
- 6) estimate the additional capacity needed in Disaster Recovery scenarios.

Steps 1, 2 and 6 are very customer dependent, so they will not be covered in this paper.

After a short discussion about which input measurements are most relevant and what you must care about when collecting them in a performance database, we will focus on steps 3, 4, and 5 which are the “core” topics of the methodology.

All the graphs and report in this paper refer to a real capacity planning study. All the system, sysplex and storage group names have been changed so as not to disclose any customer information.

If you want to receive the paper you can reply to this e-mail writing **"Planning disk storage – Part 2"** in the subject

EPV User Group 2021 – Preliminary Agenda

The XIX EPV User Group will be a “virtual” user group.

It will be spread across two days and, to allow the widest possible participation, all presentations will be repeated in two sessions:

- Session A: 11-12 October 2021
- Session B: 13-14 October 2021

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.

Preliminary Agenda						
Session A						
A1	11/10/2021	Monday	09:30 – 09:45	Introduction - First day	Danilo Gipponi	EPV Technologies
	11/10/2021	Monday	09:45 – 10:15	TFP support in EPV and MyEPV	Hans Gerd Schneider	Gothaer Systems
	11/10/2021	Monday	10:30 – 11:00	EPV for z/OS V16 preview	Fabio Massimo Ottaviani	EPV Technologies
	11/10/2021	Monday	11:15 – 11:45	First experiences with EPV Real Time	Matteo Bottazzi	EPV Technologies
	11/10/2021	Monday	14:30 – 15:00	IT Cost Reduction with EPV Quick View	Yosh Kasmirski	Bank Discount
	11/10/2021	Monday	15:15 – 15:45	EPV Control Center in action	Flavio Del Grosso	EPV Technologies
Session A						
A2	12/10/2021	Tuesday	09:30 – 09:45	Introduction - Second day	Danilo Gipponi	EPV Technologies
	12/10/2021	Tuesday	09:45 – 10:15	What's new in EPV for Db2 V15	Massimo Orlando	EPV Technologies
	12/10/2021	Tuesday	10:30 – 11:00	Improving Db2 performance with IDAA	Roberto Gioi	MPS
	12/10/2021	Tuesday	11:15 – 11:30	EPV for MQ V15 highlights	Matteo Bottazzi	EPV Technologies
	12/10/2021	Tuesday	14:30 – 15:00	A user experience with EPV on Docker and zCX	Steffen Paulus, Hartmut Rombach	T-Systems, TPS DATA
	12/10/2021	Tuesday	15:15 – 15:45	Measuring the effects of System Recovery Boost	Fabio Massimo Ottaviani	EPV Technologies
Session B						
B1	13/10/2021	Wednesday	09:30 – 09:45	Introduction - First day	Danilo Gipponi	EPV Technologies
	13/10/2021	Wednesday	09:45 – 10:15	TFP support in EPV and MyEPV	Hans Gerd Schneider	Gothaer Systems
	13/10/2021	Wednesday	10:30 – 11:00	EPV for z/OS V16 preview	Fabio Massimo Ottaviani	EPV Technologies
	13/10/2021	Wednesday	11:15 – 11:45	First experiences with EPV Real Time	Matteo Bottazzi	EPV Technologies
	13/10/2021	Wednesday	14:30 – 15:00	IT Cost Reduction with EPV Quick View	Yosh Kasmirski	Bank Discount
	13/10/2021	Wednesday	15:15 – 15:45	EPV Control Center in action	Flavio Del Grosso	EPV Technologies
Session B						
B2	14/10/2021	Thursday	09:30 – 09:45	Introduction - Second day	Danilo Gipponi	EPV Technologies
	14/10/2021	Thursday	09:45 – 10:15	What's new in EPV for Db2 V15	Massimo Orlando	EPV Technologies
	14/10/2021	Thursday	10:30 – 11:00	Improving Db2 performance with IDAA	Roberto Gioi	MPS
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Enhanced TFP support

Enhanced TFP support has been added with the EPV for z/OS V15.21 maintenance level.

It includes many additional details about monthly, daily and hourly MSU usage by container and system.

Customers wishing to receive it must request it by writing an e-mail to EPV technical support.



Customer Questions

To investigate a security issue, we need to produce an ad-hoc report including client IP address of each CICS transactions.

We selected CLIPADDR_244 and OCLIPADR_368 in our query but they both show null values.

EPV Technical Support answer

In the epv110_1_trxacct table of the EPV zParser database, you can find the following fields which allow to identify the client IP address of CICS transactions:

- CLIPADDR_244, "Client IP address."
- OCLIPADR_368, "IP address of the originating client or Telnet client."
- CLIPADDR_318, "Client IP address for CICS TS >= 4.2"
- OCLIPADR_372, "IP address of the originating client or Telnet client for CICS TS >= 4.2"

For current CICS versions you should use the CLIPADDR_318 and OCLIPADR_372 fields.



Major suspension reasons for Db2 applications

Other write I/O suspensions

Other write I/O suspensions occur when update operations have to wait because the needed pages are already being written to disk by other agents. The thread is suspended until the write I/O is completed.

It's important to note that only first waiter gets this suspension type, all the others get PAGE LATCH suspension.

High number of other write I/Os can be mostly due to:

- Db2 system checkpoint; you should check the checkpoint frequency;
- deferred write thresholds too low; you should check the DWQT and VDWQT buffer pool parameters.

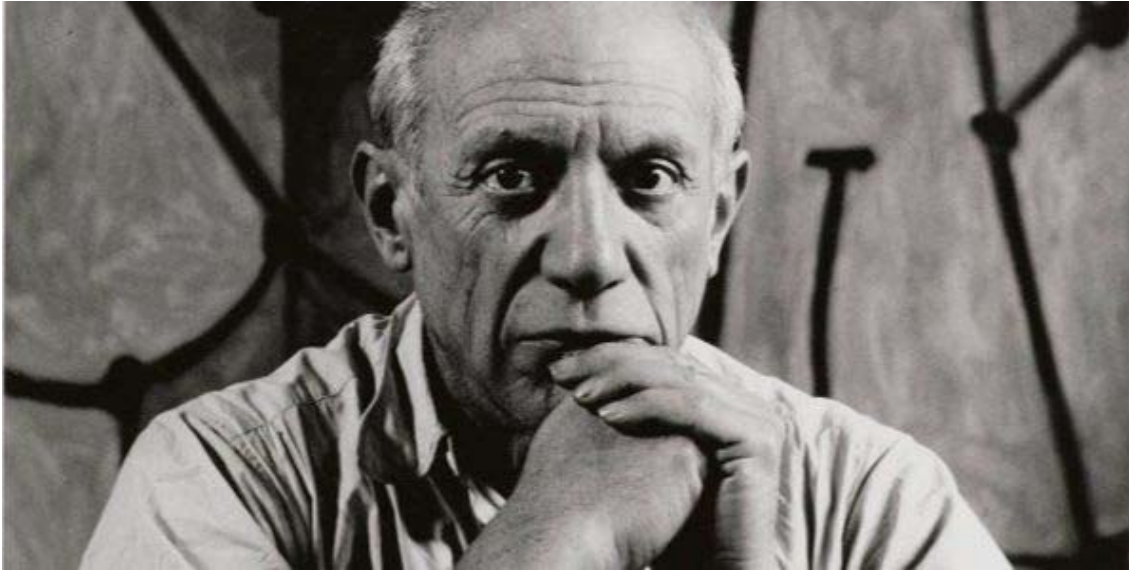
In case the average suspension time is too long, disk I/O performance should be investigated.

All deferred write operations are managed by DBM1 running on zIIP. So, you should also check that zIIP capacity is not severely constrained.

Metrics about other write I/O suspensions are provided, both at plan (IFCID 003) and package (239) level, in the following fields of SMF 101 records:

- QWACAWTW, accumulated waiting time due to other write I/O (IFCID 003);
- QWACARNW, number of suspensions due to other write I/O (IFCID 003);
- QPACAWTW, accumulated waiting time due to other write I/O during the execution of this package (IFCID 239);
- QPACARNW, number of suspensions due to other write I/O during the execution of this package (IFCID 239).

Quotes



"Everything you can imagine is real."

Pablo Picasso

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