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Newsletter

August 2020

THIS MONTH HIGHLIGHTS

- EPV User Group 2020 – Final Agenda
- EPV Graph for z/OS V15 MA

EPV User Group 2020

Virtual Edition
21-24 September

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EPV User Group 2020 – Final Agenda

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

To allow for the widest possible participation, all sessions will be repeated twice and spread across four days from 21st to 24th September.

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.

Agenda

EPV User Group 2020

Final Agenda

Session 1						
Code						
A1	21/09/2020	Monday	09:30 – 10:15	EPV Products Evolution	Danilo Gipponi	EPV Technologies
A2	21/09/2020	Monday	11:00 – 11:45	New EPV User Interface	Matteo Bottazzi	EPV Technologies
A3	21/09/2020	Monday	14:30 – 15:15	Using of EPV User Trend Reports at Gothaer Systems	Hans Gerd Schneider	Gothaer Systems
A4	21/09/2020	Monday	15:30 – 16:15	EPV for CICS Highlights	Fabio Massimo Ottaviani	EPV Technologies
A5	22/09/2020	Tuesday	09:30 – 10:15	Anomaly Detection for CICS Web Services	Marco Pani	CEDACRI
A6	22/09/2020	Tuesday	11:00 – 11:45	EPV on Docker and zCX	Matteo Bottazzi	EPV Technologies
A7	22/09/2020	Tuesday	14:30 – 15:15	MyEPV Reporting	Mark Cohen Austrowiek	EPV Technologies
A8	22/09/2020	Tuesday	15:30 – 16:15	Is My z15 Performing as Expected?	Danilo Gipponi	EPV Technologies
Session 2						
Code						
B1	23/09/2020	Wednesday	09:30 – 10:15	EPV Products Evolution	Danilo Gipponi	EPV Technologies
B2	23/09/2020	Wednesday	11:00 – 11:45	Using of EPV User Trend Reports at Gothaer Systems	Hans Gerd Schneider	Gothaer Systems
B3	23/09/2020	Wednesday	14:30 – 15:15	EPV for CICS Highlights	Fabio Massimo Ottaviani	EPV Technologies
B4	23/09/2020	Wednesday	15:30 – 16:15	New EPV User Interface	Matteo Bottazzi	EPV Technologies
B5	24/09/2020	Thursday	09:30 – 10:15	MyEPV Reporting	Mark Cohen Austrowiek	EPV Technologies
B6	24/09/2020	Thursday	11:00 – 11:45	Is My z15 Performing as Expected?	Danilo Gipponi	EPV Technologies
B7	24/09/2020	Thursday	14:30 – 15:15	EPV on Docker and zCX	Matteo Bottazzi	EPV Technologies
B8	24/09/2020	Thursday	15:30 – 16:15	Anomaly Detection for CICS Web Services	Marco Pani	CEDACRI

Abstracts

(UE = User Experience, PP = Product Presentation, MT = Methodology)

EPV Products Evolution (PP)

This presentation will describe the evolution lines of the EPV products suite discussing the more relevant and interesting for our customers. Amongst the others, user interface, architecture, maintenance and the possibility to run in SAAS mode.

New EPV User Interface (PP)

The EPV products user interface has been completely redesigned with a more effective home page and new functions to manage page menus and table icons.

New colors, fonts and icons have been selected to provide a better user experience.

Using of EPV User Trend Reports at Gothaer Systems (UE)

Examples of using EPV User Trends to track MSU consumption and performance after changes in System AS and Application Transactions.

Among other things, the migration from GDPS 4.1 to 4.2, the way to track the XCFAS and the runtime behavior of transactions after the migration from IMS/DB to Db2 are discussed.

EPV for CICS Highlights (PP)

This presentation is based on first customers experiences and feedbacks.

In the first part we will discuss the reasons why you need EPV for CICS and its more relevant characteristics.

In the second part real life examples of what our customers consider the most useful views and functions will be presented.

Anomaly Detection for CICS Web Services (UE)

In the process of modernizing applications on z/OS, several CICS SOAP webservices have been created. It is therefore necessary through the SMF archives to make evident the performances and the error situations at this level of detail. With more advanced algorithms we try to highlight only the anomalies impacting on the service levels.

EPV on Docker and zCX (PP)

EPV products main policy has always been to provide all the needed information for z/OS performance analysis and capacity planning by running outside of z/OS

The major reason of this choice is our continuous effort to reduce customers z/OS hardware and software costs.

With zCX, it is now possible to run the EPV products on z/OS, with no changes to the source code.

MyEPV Reporting (UE)

If you need a reporting tool that can easily help you design reports, document them, have access to a dictionary for all your tables and columns and provide automatic drill down capabilities for all your graphical and tabular reports then this session is for you.

Is My z15 Performing as Expected? (MT)

We regularly receive requests from some customers to help them evaluate the new machine's performance. This has also happened when upgrading to z15.

In this presentation we will try to provide suggestions to help you answer the title's question.

In the final part we will discuss a real case of migrating from z13 to z15.

Subscription

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.

The subscription form is available at: www.epvtech.com

EPV Graph for z/OS V15 MA

We are proud to announce the Managed Availability of EPV Graph for z/OS V15. It will be possible to install the product at selected customers sites with close EPV support starting from September 2020.

The following major enhancements have been introduced:

- 1) Usability
 - V15 User Interface full support,
 - improved graph titles.

- 2) 20 new graph types provided out-of-the-box

COMPONENT	GRAPH	Description
CRYPTO CPU UTILIZATION	CRYPTO CPU UTILIZATION BY CEC	Hourly profile of CPU utilization due to cryptographic activities
CRYPTO CPU UTILIZATION	CRYPTO CPU UTILIZATION - <i>cecid</i> CEC	Hourly profile of CPU utilization due to cryptographic activities in the selected CEC
CRYPTO CPU UTILIZATION	CRYPTO CPU UTILIZATION BY SYSTEM	Hourly profile of CPU utilization due to cryptographic activities in the selected CEC by system
CRYPTO IIP UTILIZATION	CRYPTO IIP UTILIZATION BY CEC	Hourly profile of IIP utilization due to cryptographic activities
CRYPTO IIP UTILIZATION	CRYPTO IIP UTILIZATION - <i>cecid</i> CEC	Hourly profile of IIP utilization due to cryptographic activities in the selected CEC
CRYPTO IIP UTILIZATION	CRYPTO IIP UTILIZATION BY SYSTEM	Hourly profile of IIP utilization due to cryptographic activities in the selected CEC by system
CRYPTO CPU UTILIZATION DAILY TRENDS	DAILY CRYPTO CPU UTILIZATION	Daily trend of CPU utilization due to cryptographic activities by time shift
CRYPTO CPU UTILIZATION DAILY TRENDS	DAILY CRYPTO CPU UTILIZATION - <i>cecid</i> CEC	Daily trend of CPU utilization due to cryptographic activities by time shift in the selected CEC
CRYPTO CPU UTILIZATION DAILY TRENDS	DAILY CRYPTO CPU UTILIZATION - <i>sysid</i> SYSTEM	Daily trend of CPU utilization due to cryptographic activities by time shift in the selected CEC by system
CRYPTO IIP UTILIZATION DAILY TRENDS	DAILY CRYPTO IIP UTILIZATION	Daily trend of IIP utilization due to cryptographic activities by time shift
CRYPTO IIP UTILIZATION DAILY TRENDS	DAILY CRYPTO IIP UTILIZATION - <i>cecid</i> CEC	Daily trend of IIP utilization due to cryptographic activities by time shift in the selected CEC
CRYPTO IIP UTILIZATION DAILY TRENDS	DAILY CRYPTO IIP UTILIZATION - <i>sysid</i> SYSTEM	Daily trend of IIP utilization due to cryptographic activities by time shift in the selected CEC by system
THROUGHPUT DAILY TRENDS	DAILY THROUGHPUT	Daily throughput by workload type and time shift
THROUGHPUT DAILY TRENDS	DAILY THROUGHPUT BY SYSTEM - <i>wklid</i> WORKLOAD	Daily throughput by system and time shift of the selected workload type
THROUGHPUT DAILY TRENDS	DAILY THROUGHPUT BY <i>wklid</i> SUBSYSTEM - <i>sysid</i> SYSTEM	Daily throughput by subsystem of the selected workload type and system
THROUGHPUT DAILY TRENDS	DAILY THROUGHPUT ON <i>sysid</i> - <i>ssid</i> /OTHER SUBSYSTEM/APPLID/SERVICE CLASS	Daily throughput of the selected workload type, system and subsystem/applid/service class
CRYPTO CPU UTILIZATION MONTHLY TRENDS	MONTHLY CRYPTO CPU UTILIZATION	Monthly trend of CPU utilization due to cryptographic activities by time shift
CRYPTO CPU UTILIZATION MONTHLY TRENDS	MONTHLY CRYPTO CPU UTILIZATION - <i>cecid</i> CEC	Monthly trend of CPU utilization due to cryptographic activities by time shift in the selected CEC
CRYPTO CPU UTILIZATION MONTHLY TRENDS	MONTHLY CRYPTO CPU UTILIZATION - <i>sysid</i> SYSTEM	Monthly trend of CPU utilization due to cryptographic activities by time shift in the selected CEC by system
CRYPTO IIP UTILIZATION MONTHLY TRENDS	MONTHLY CRYPTO IIP UTILIZATION	Monthly trend of IIP utilization due to cryptographic activities by time shift
CRYPTO IIP UTILIZATION MONTHLY TRENDS	MONTHLY CRYPTO IIP UTILIZATION - <i>cecid</i> CEC	Monthly trend of IIP utilization due to cryptographic activities by time shift in the selected CEC
CRYPTO IIP UTILIZATION MONTHLY TRENDS	MONTHLY CRYPTO IIP UTILIZATION - <i>sysid</i> SYSTEM	Monthly trend of IIP utilization due to cryptographic activities by time shift in the selected CEC by system
TFP	GLOBAL TFP TREND	Monthly trend of MSU used by container.
TFP	CONTAINER <i>cntrid</i> - MONTHLY MSU BY SYSTEM	Monthly trend of MSU used by system in the selected container.
TFP	CONTAINER <i>cntrid</i> - <i>sysid</i> /OTHER MONTHLY MSU	Monthly trend of MSU used by the selected container and system.
TFP	CONTAINER <i>cntrid</i> - OTHER SYSTEMS MONTHLY MSU	Monthly trend of MSU used by OTHER systems in the selected

...	CONTAINER OPERA	OTHER SYSTEMS MONITORED	OTHER SYSTEMS IN THE SELECTED container.
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3) MCM support

EPV graph for z/OS V15 has also been redesigned to support the MultiClientManager (MCM) option.

This option is useful for outsourcing providers and customers who want to provide separate graph sites for clients or departments sharing the same machines.

Thanks to MCM, a virtually unlimited number of client sites can be created in few minutes starting from the EPV Graph for z/OS main site.

For more information, please contact EPV Technical Support.



On the 21st of July, our development system suddenly crashed without any warning just before 11 am.

We gave all dumps to IBM and, after analyzing them, they asked for SMF 119 records.

After more than 1 week we don't have any feedback yet.

Can you help us to understand what has happened?

EPV Technical Support answer

We think the problem is the ECSA saturation.

Based on what we see in the CSA Utilization view, you risked another crash at 1pm after the system re-started, because the ECSA reached 95,9% utilization.

In this hour, the largest contiguous free area was reduced from 70,2 MB to 8,2 MB only.

Going into more detail we discovered that the problem has been caused by a sudden increase of the ECSA used in key 6. This key is normally used by the Communication Manager (VTAM, TCP).

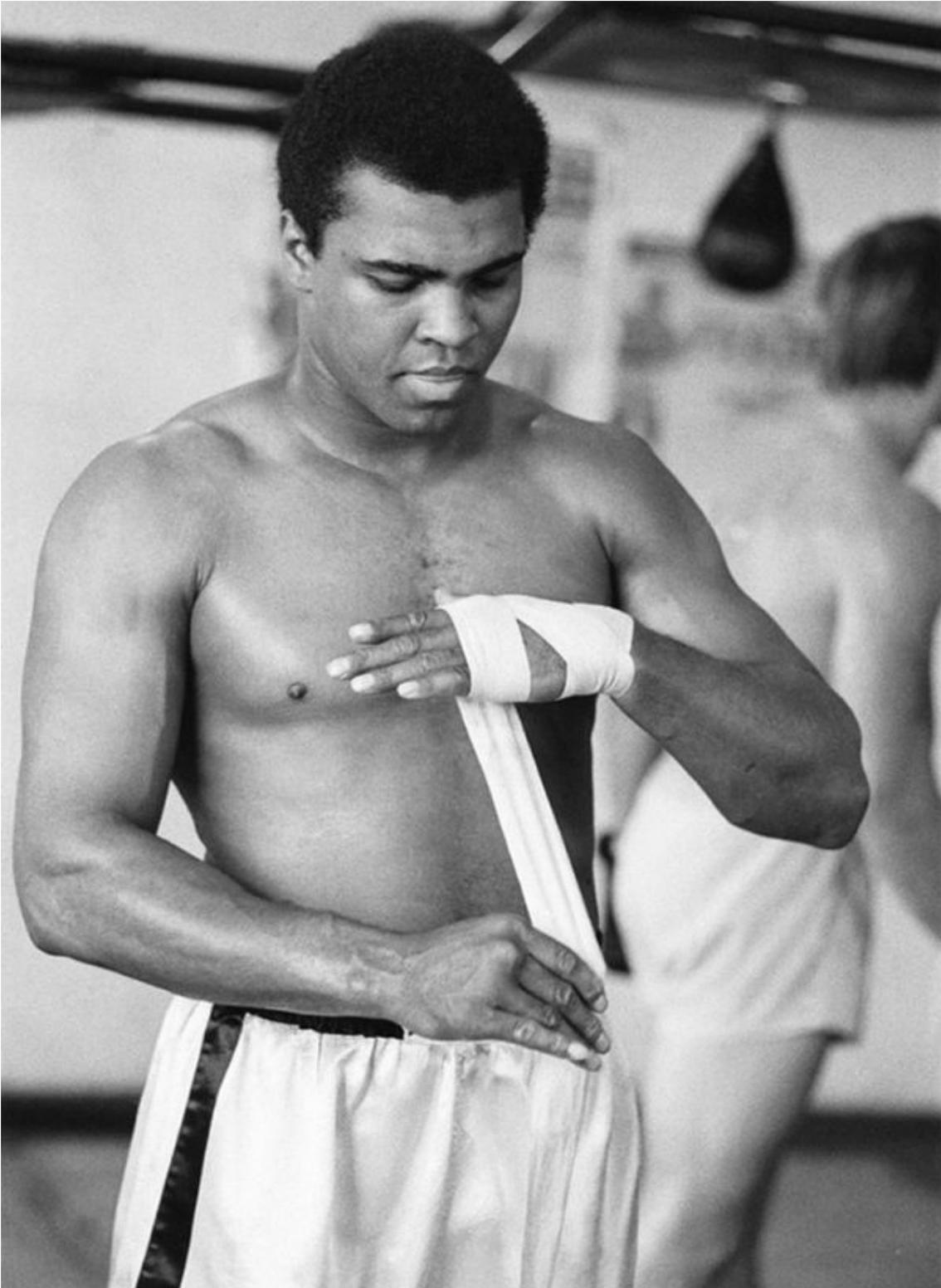
This is the reason why IBM asked for SMF 119 records.



Acronyms

Acronym	Meaning	Context
CCW	Channel Command Word	I/O
CHP	CHannel Path	I/O
CKD	Count-Key Data	I/O
CU	Control Unit	I/O
DASD	Direct Access Storage Device	I/O
DSCB	Data Set Control Block	I/O
ECKD	Extended Count-Key Data	I/O
ESS	Enterprise Storage Server	I/O
FICON	Fibre CONnection	I/O
HDA	Head Disk Assembly	I/O
LCU	Logical Control Unit	I/O
LSS	Logical SubSystem	I/O
PAV	Parallel Access Volume	I/O
PCU	Physical Control Unit	I/O
RAID	Redundant Array of Independent Disks	I/O
SAN	Storage Area Network	I/O
SSCH	Start Sub Channel	I/O
VTOC	Volume Table Of Contents	I/O
VIO	Virtual I/O	I/O
VTS	Virtual Tape Server	I/O

Quotes



"Don't count the days, make the days count."

Muhammad Ali

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