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IT Cost
Under Control

EPV Technologies

Newsletter

December 2020

THIS MONTH HIGHLIGHTS

- Tech Papers publishing will restart in 2021
- EPV Performance University 2021

Tech Papers publishing will restart in 2021

Tech Papers publishing has been suspended for the Christmas holidays. The EPV Newsletter editorial staff wishes you a Merry Christmas and a Happy New Year.

EPV Performance University 2021

The fifth edition of the EPV Performance University will be virtual. It will be free of charge and reserved to EPV customers, partners and invited guests.

It will be held on two weeks: February 23-25, 2021 and March 2-4 2021.

Mark these days in your agenda to avoid missing this opportunity.

The EPV Performance University will be structured in three training courses on the following topics:

- z/OS performance analysis, (3 days)
- WLM update (2 days)
- Db2 performance analysis (1 day)

These training courses have been designed to provide participants a deeper knowledge about:

- the most relevant performance metrics to use to analyse z/OS performance;
- the most advanced and recent WLM functions;
- the most relevant performance metrics to use to analyse Db2 performance.

Preliminary agenda

z/OS Performance Analysis		
Code	Day	Description
Z1	1	z/OS data collection - Part 1
Z2	1	z/OS data collection - Part 2
Z3	1	CPU
Z4	1	WLC and TFP
Z5	1	zIIP
Z6	2	SMF 113 counters
Z7	2	Memory
Z8	2	Coupling Facility
Z9	2	Disk I/O
Z10	2	Crypto
Z11	3	Address spaces
Z12	3	Service and Report classes
Z13	3	CICS and IMS throughput
Z14	3	Other workloads throughput
Z15	3	Daily Trends
WLM Update		
Code	Day	Description
W1	1	WLM basics - Part1
W2	1	WLM basics - Part2
W3	1	WLM basics - Part3
W4	1	SYSTEM, SYSSTC and protection
W5	1	CICS and IMS transaction goals
W6	2	Resource Groups
W7	2	Capping and soft capping
W8	2	IRD and HiperDispatch
W9	2	zIIP and SMT
W10	2	WLM and software pricing
Db2 Performance Analysis		
Code	Day	Description
D1	1	Data collection
D2	1	System AS
D3	1	EDM pools and threads
D4	1	Buffer Pools and Group Buffer Pools
D5	1	Locks and latches
D6	1	Workload analysis

EPV products will be used as a map to make the path easier but most of the concepts discussed will be of general interest also for not EPV customers.

The courses language will be English

More details and subscription forms soon available at: www.epvtech.com



Customer Questions

I'm a bit confused about Db2 statistics and accounting traces. Which are the most important trace classes to be activated for performance analysis and what is their mapping to SMF record types and subtypes.

EPV Technical Support answer

In the following table you will find the statistics trace classes we suggest activating and the correspondent SMF record type and subtype.

IFCID	TRACE	CLASS	SMF TYPE	SMF SUBTYPE	DESCRIPTION
001	STATISTICS	1	100	0	System Services Statistics
002	STATISTICS	1	100	1	Database Statistics
202	STATISTICS	1	100	2	Buffer Pool Parameters
230	STATISTICS	5	100	3	Data Sharing Global Statistics
225	STATISTICS	1	100	4	Storage Statistics
172					Deadlock Statistics
196	STATISTICS	3	102		Timeout Statistics
105					DB TS Mapping
199	STATISTICS	8	102		Data Set I/O Statistics
389	STATISTICS	9	102		FTB Statistics

If you are not in a data sharing environment, you don't need class 5 and if you are not running Db2 V12 you don't need class 9.

In this other table you will find the accounting trace classes we suggest activating and the correspondent SMF record type and subtype.

IFCID	TRACE	CLASS	SMF TYPE	SMF SUBTYPE	DESCRIPTION
003	ACCOUNTING	1	101	0	Plan Accounting
003	ACCOUNTING	2	101	0	Plan In Db2 Time
003	ACCOUNTING	3	101	0	Plan Wait Time
239	ACCOUNTING	7	101	1	Package Accounting
239	ACCOUNTING	8	101	1	Package Wait Time
239	ACCOUNTING	10	101	1	Package Accounting Details

If you are worried about the overhead and you don't need package details other than CPU time, zIIP time, elapsed time and wait times you can avoid activating class 10.



Acronym	Meaning	Context
APPC	Advanced Program-to Program Communications	Other z/OS components
APPN	Advanced Peer-to-Peer Networking	Other z/OS components
CB	Component Broker	Other z/OS components
CHIN	CHannel INitiator	Other z/OS components
CTC	Channel To Channel	Other z/OS components
ISPF	Interactive System Productivity Facility	Other z/OS components
JCL	Job Control Language	Other z/OS components
JES2	Job Entry Subsystem 2	Other z/OS components
MQ	Message Queue	Other z/OS components
OMVS	Open Multiple Virtual Storage	Other z/OS components
OSA	Open Systems Adapter	Other z/OS components
REXX	REstructured eXtended eXecutor	Other z/OS components
RRS	Resource Recovery Services	Other z/OS components
SDSF	System Display and Search Facility	Other z/OS components
TCP/IP	Transmission Control Protocol/Internet Protocol	Other z/OS components
TSO	Time Sharing Option	Other z/OS components
VTAM	Virtual Telecommunications Access Method	Other z/OS components
WAS	Websphere Application Server	Other z/OS components
zCX	z/OS Container Extensions	Other z/OS components
z/OSMF	z/OS Management Facility	Other z/OS components

Quotes



"The happiness of your life depends upon the quality of your thoughts."

Marcus Aurelius

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