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EPV Technologies Newsletter

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April 2016

- Tech Papers - DB2 and Memory Exploitation - Part 1
- Tech News - IBM z Systems Technical University
- Tech Support - Important WLM corrections

Every month we will invite Newsletter readers to send us the solution to a simple logic test. The editorial staff will collect the results and at the end of the year we will send a symbolic prize to the participant with the highest number of correct answers. In case of a tie the winner will be chosen by drawing.

The real prize is that he will also decide the NGO EPV Technologies will donate 1.000,00 Euro to, choosing from: MSF (www.medicisenzafrontiere.it), TDH (www.terredeshommes.it) and WWF (www.wwf.it).

When Logic Matters

The solution of March 2016 quiz is : C



If at a given time, at the end of the day, still it lacks 1/7 of the time already spent, what time it will be at that moment ?

A.21:20 B.21:00 C.19:00 D.9:30 E:18:30

Tech-papers

DB2 and Memory Exploitation - Part 1

For many years z/OS and DB2 system programmers have been fighting for memory: the first to defend the limited amount of memory available on the system, the latter to try to enlarge the DB2 pools in order to improve performance.

Thanks to the technological evolution this fight should make no sense anymore. A huge amount of memory is now available to the z/OS systems and subsystems and, with the z13 machines, the memory price has also become three times cheaper than the previous machine generation.

However old habits are very difficult to change so it's still pretty common to see DB2 subsystems suffering for lack of storage even if a lot of memory is available, and unused, in the z/OS system.

It's important to be aware that DB2 memory exploitation can provide:

- better application performance;
- reduced I/O activity;
- reduced CPU consumptions.

In this paper we will discuss the available measurement which can be used to understand if DBD, Skeleton pools, Global Dynamic Statement Cache and Buffer Pools performance can be improved by exploiting the available memory.

If you want to receive the paper you can reply to this e-mail writing "DB2 and Memory Exploitation - Part 1" in the subject

Tech-news

IBM z Systems Technical University

The IBM z Systems Technical University will be held in Munich on 13-17 June 2016.

As every year EPV Technologies will contribute with many presentations:

- Intro to Measuring z/OS Systems - Input Data for z/OS Perf Analysis and Tuning Workshop - Part 1
- Intro to Measuring z/OS Systems - Input Data for z/OS Perf Analysis and Tuning Workshop - Part 2
- Intro to Measuring z/OS Systems - Input Data for z/OS Perf Analysis and Tuning Workshop - Part 3
- Evolution of CPU and zIIP usage inside the DB2 system address spaces
- HIS counters for z13 Capacity Planning and Performance Analysis
- Lost in the SMT World

EPV Technologies will also be Silver Sponsor of the conference. More details in the next newsletter.

Don't miss this event.

Conference information at <http://www-304.ibm.com/jct03001c/services/learning/ites.wss/zz/en?pageType=page&c=P595822W91230R00>

Tech-support

Important WLM corrections

OA49111: RESOURCE GROUP CAPPED IS CAPPED WELL BELOW THE MAXIMUM SERVICE LIMIT

A resource group with service classes at different importances and consumption on multiple systems may not be able to increase the allowable consumption of the lower importance service classes. The lower importance classes will be capped at a point that it was correctly capped at some time prior but will not increase when the Resource Group has available capacity.

More details at: <http://www-01.ibm.com/support/docview.wss?uid=isg1OA49111>

OA49442: WLM DOES NOT START AN ADDITIONAL SERVER ADDRESS SPACE
WLM may not start additional server address spaces even though there are available resources. The resource adjustment code evaluates starting another server but due to an incorrect calculation of PROJ_ACHIEVABLE_DEMAND, it projects that adding another server would not help decrease the delay samples so no new server is started.

More details at: <http://www-01.ibm.com/support/docview.wss?uid=isg1OA49442>

OA49474: SRB INCORRECTLY PROMOTED DUE TO LOCK CONTENTION
During a flood of SRBs, Supervisor performs SRB promotion, where an SRB will use its scheduler's workunit dispatching priority. If the SRB scheduling workunit got temporarily promoted during lock contention, the SRB will incorrectly inherit the scheduler's promoted dispatching priority. If the SRB is a long running SRB, the incorrect inherited dispatching priority can cause non-system level work to not run, resulting in a stalled system.

More details at: <http://www-01.ibm.com/support/docview.wss?uid=isg1OA49474>

Quote of the month



" We have two lives, and the second begins when we realize we only have one."

Confucius

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