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# EPV Technologies Newsletter

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February 2016

- Tech Papers - CPU and zIIP usage of the DB2 system address spaces - Part 2
- Tech News - z13s announcement
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- Tech Support - z13s support in EPV

*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](http://www.medicisenzafrontiere.it)), TDH ([www.terredeshommes.it](http://www.terredeshommes.it)) and WWF ([www.wwf.it](http://www.wwf.it)).*

## When Logic Matters

The solution of January 2016 quiz is : C



Which time will indicate the clock after the hand will have turned 11,25 laps ? and after further 19,25 laps ?



- A 3,35 and then 10,25
- B 3,30 and then 10,45
- C 3,35 and then 10,40
- D 3,30 and then 11,15

## Tech-papers

### CPU and zIIP usage of the DB2 system address spaces - Part 2

Each DB2 subsystem always includes three system address spaces:

- Master (MSTR), providing overall control functions such as logging and backout;
- Database Manager (DBM1), providing database related functions such as buffer pools and EDM pool management;
- Internal Resource Lock Manager (IRLM), providing locking support.

The z/OS standard accounting mechanism, based on cross memory services, attributes CPU usage to the requesting address space. Only a part of the CPU used to serve requests arriving to DB2 is charged to MSTR, DBM1 and IRLM address spaces.

This part, which can be considered as wholly DB2 overhead, is normally a small percentage of the DB2 application CPU but it can be pretty high in absolute terms.

For many years the focus of DB2 overhead analysis has been on DBM1 that was, among the DB2 system address spaces, the major CPU consumer.

DB2 evolution during the last years deeply changed this picture by allowing to offload a big portion of DBM1 and, from V11, also part of MSTR activity to zIIP.

On the other side new functions have been provided in the MSTR address space which greatly increased its CPU usage and sometimes may become real issues to address.

In this paper we'll discuss:

- the amount of work which has been offloaded or could be offloaded to zIIP;
- the impact of new functions available in the MSTR address space on CPU usage;
- the impact of insufficient zIIP capacity on DB2 CPU usage and performance.

If you want to receive the paper you can reply to this e-mail writing " CPU and zIIP usage of the DB2 system address spaces - Part 2" in the subject

## Tech-news

### **z13s announcement**

Tech News - z13s announcement

On February 16 IBM announced the new z13s machines together with many other enhancements as indicated by the announcement title “Expanding the IBM Systems’ portfolio with additions to IBM z Systems and IBM LinuxONE”.

Announcement available at: <http://epvtech.us2.list-manage.com/track/click?u=062eec856ef8c8851bd059563&id=581690eafb&e=48456c6e0b>

z13s details at: <http://epvtech.us2.list-manage.com/track/click?u=062eec856ef8c8851bd059563&id=8670e9ba12&e=48456c6e0b>

## Tech-notes

### **EPV Performance University report**

During the week from February 22nd to 26th we held the 1st edition of the EPV University training courses.

26 different people from 6 different Countries and 14 different Companies attended the z/OS Performance and WLM courses, providing enthusiastic feedback.

We are planning a second edition to be held after the summer. Dates and details will be announced in future newsletters.

If you would be interested in participating please send an email to [epv.info@epvtech.com](mailto:epv.info@epvtech.com) specifying the training course of your interest.



## Tech-support

## z13s support in EPV

While z13s models will be available on 10 March 2016, EPV MIPS tables have been already updated to include the benchmarks of these new machines.

EPV customers may get the new MIPS tables by simply writing to EPV technical support.

## Quote of the month



*"It is hard to fight with one's heart's desire, for it will pay with soul for what it craves"*

**Eraclito**



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