

EPV Technologies

Newsletter



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This message contains news related to EPV products produced and distributed by EPV Technologies.

The EPV products suite answer problems such as **Managing Performance, Tuning and Capacity Planning** on the most common platforms, **allowing huge savings on HW and SW costs.**

Greater details and information on EPV products and solutions can be found at <http://www.epvtech.com> or writing to epv.info@epvtech.com.

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1) Tech Papers

AIX Micro-Partitioning (Part 2)

Mark Cohen Austrowiek – EPV Technologies

Starting from year 2000 IBM announced the possibility to partition the pSeries family systems. Initially it was only possible to run dedicated processors in a logical partition. Now p5 series has integrated new virtual engine system technologies into their hardware and software. This introduced new features as Micro-Partitioning which provides the ability to share physical processors among logical partitions, Virtual Lan which provides network utilization features capabilities that permit you to prioritize traffic on shared networks and allows secure communication between logical partitions without the need of a physical network adapter, Virtual I/O which provides the ability to

dedicate I/O adapters and devices to a virtual server. It allows a single physical I/O adapter to be used by multiple logical partitions on the same server. This allows consolidation of I/O servers and minimizes the amount of I/O adapters required.

New concepts of shared partitioning have been implemented in the p5 series compared to the IBM mainframe. In this paper I will provide a detailed overview of shared partitioning and its performance metric considerations .

Before starting to measure shared partition activity it's essential for the performance analyst to obtain a general overview of the new terms introduced and understand how logical partitioning is configured and works in the P5 series environment.

The following arguments will be discussed in this paper: Power Hypervisor, Hardware Manager Console (abbreviated as HMC), partition profiles, Micro-Partitioning, entitled capacity, virtual CPUs, logical CPUs, Symmetric Multi Processing (abbreviated as SMT), Partition Load Manager (abbreviated as PLM), performance tools as *vmstat*, *lparstat*, *mpstat* and performance case examples.

Due to the complexity of the topic the paper has been divided in two parts.

If you want to receive the white paper you can reply to this e-mail writing "AIX Micro-Partitioning (Part 2)" in the subject

2) Tech Support - Critical change in MXG 24.04

The name of a variable in the TYPE74CF table has been changed in MXG 24.04
This is Barry Merrill's comment about that:

Change 24.092 is the "unannounced" support for zOS 1.8 for ESP sites, so I can't make the text public until GA unless you are ESP.

But in making that change, I corrected the incorrect spelling of old variable R77VLVL to the correct R744FLVL spelling.

*I rarely change variable names, and in most cases probably would have kept the old and the new, but I just didn't think the field was that commonly used, so I just changed it, so I caused your error!
But now, with the correct spelling, I'll leave it as is.*

Barry

In this situation EPV for z/OS completes the load phase without any apparent error but the Configuration Vision HTML pages produced are not correct.

When using MXG 24.04 or above, the following line of code has to be inserted in the UC74CF member of the EPV USERLIB to correct the problem :

```
IF R744VLVL=. THEN R744VLVL=R744FLVL;
```

EPV technical support is available for details and help.

3) Tech Notes - EPV User Group 2006

The 4th EPV User Group will be held in Rome, at the Residenza di Ripetta, on october 12nd 2006.

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 new versions of the EPV for z/OS, EPV Graph for z/OS and EPV for UNIX products will be presented.

An updated version of our Capacity Planning methodology extended also to non z/OS environments will also be discussed.

You can subscribe to the EPV User Group simply replying to this e-mail.

Preliminary Agenda

9.30	Registration		
10.00	Welcome	<i>Daniilo Gipponi</i>	EPV Technologies
10.15	EPV for z/OS on Windows using Samba	<i>Claudio Brannetti</i>	GroupAMA
10.45	EPV Graphs for z/OS 2.0	<i>Daniilo Gipponi</i>	EPV Technologies
11.15	coffee break		
11.45	Performance Data & Capacity Issues Experience with EPV for z/OS at IZB	<i>Dagmar Fischer</i>	IZB
12.15	EPV for z/OS versione 6.0	<i>Giuseppe Giacomodonato</i>	EPV Technologies
12.45	EPV for Unix versione 6.0	<i>Mark Cohen Austrowiek</i>	EPV Technologies
13.00	lunch		
14.00	Capacity Planning using EPV for z/OS (update)	<i>Fabio Massimo Ottaviani</i>	EPV Technologies
15.00	Special event		
20.00	EPV dinner*		

* reserved to EPV customers

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