# EPV Technologies
*Newsletter*

**28 february 2007 - Number 2**
Past numbers of this newsletter are available on the web at http://www.epvtech.com

## Presentation

In this number we are proud to publish a Mark Friedman paper discussing a hot IT topic.
We want to thank Mark for granting us to publish this abstract and to distribute the paper to our customers.

***DISCLAIMER***
*The paper was written when Mark Friedman was employed at Demand Technology Software, before he joined Microsoft Corporation in October 2006. Mark Friedman doesn't deal with virtualization issues in his present job at Microsoft Corporation, and the paper does not in any way reflect an official position of the Microsoft Corporation.*

## In this number



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## 1) Tech Papers

**The Reality of Virtualization for Windows Servers**
Mark Friedman - Demand Technology Software

This paper discusses the performance and capacity concerns that arise when Windows servers are run as virtual machine
guests on current virtualization solutions. It reviews the advantages and disadvantages of virtualization as a server
consolidation strategy. It describes the major sources of performance degradation that applications running on guest
machines face today and discusses the prospects to resolve these problems as new hardware emerges in the near future.

*If you want to receive the white paper you can reply to this e-mail writing* **"The Reality of Virtualization for Windows Servers"** *in the subject*

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## 2) Tech News - Upcoming events:

**Integrating zPCR in a practical Capacity Planning methodology**
Fabio Massimo Ottaviani, EPV Technologies

The seminar will be held on March 21st 2007 in Milan and will be hosted by SIA.
This is the only date for this event in Italy and only a limited number of subscriptions can be accepted.
So if you are interested in this event you should subscribe as soon as possible.
The seminar will be free of charge for all CMG associates.The seminar language will be Italian
Details at: http://www.cmgitalia.it/Primavera07.html

If you are interested in participating to an English edition of the seminar please write to epvinfo@epvtech.com.

**IBM System z Technical Conference**
The "IBM System z Technical Conference", to be held in Munich (Germany) on 16-20 april, is probably the most important technical event in Europe related to z issues. It's a unique opportunity to get first hand news from the IBM development teams and to get performance advices from the most famous IBM performance analysts.
EPV Technologies is proud to contribute to the conference program with two papers and to be included in the very few non IBM Companies invited to present.

More details at:
http://www-304.ibm.com/jct03001c/services/learning/ites.wss?pageType=page&c=a0012060

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## 3) Tech Notes

**Uncaptured CPU Overheads, SRM / RMPTTOM, and evolution to the IBM System z9 EC Processor**
Geoff Adams - National Australia Bank

*This article details our site's experiences when implementing the new IBM System z9 EC 2094 model processors. The installation process started in late June 2006 and although tuning the new configuration is still a work in progress, we believe others can benefit from our experiences thus far.*
*To set the scene - a large variation in the "Uncaptured" CPU component was detected, with an associated fall in the capture ratio.*
*The scale of this rise in Uncaptured was considered to be out of proportion with the increase in the measurable workloads.*
*We duly followed this up with IBM via the normal channels for this kind of enquiry and then escalated it to ensure it received the attention that we believed that it deserved. It was recognised that an incorrect value existed in the SRM tables for z/OS 1.7 for the z9 EC processor. Further investigations highlighted an opportunity to enhance SRM to reduce the frequency of some non-critical algorithms which were currently contributing to higher than necessary overheads.*
*We believe that these findings can be of benefit to most IBM mainframe sites in the short term by adjusting a parameter called RMPTTOM, and in the longer term when IBM make the proposed SRM enhancements available. IBM announcements have occurred making initial recommendations and providing the necessary technical guidance, and we expect that these will continue as enhancements become available.*

The document is available at: http://www.cmg.org/measureit/issues/mit38/m_38_10.html

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