

# HILLGANG

*The DC VM & Linux Users' Group*



*Announcing the 19<sup>th</sup> Meeting of the new Hillgang*

- Date: March 16, 2011
- Location: Computer Associates  
2291 Wood Oak Drive  
Herndon VA
- Time: 8:30 for 9:00 until 2pm

## AGENDA

- Breakfast – Brought to you by:
- History of VM Performance – Lynn Wheeler

- IBM zEnterprise Unified Resource Manager Overview - The Value for z/VM – Romney White, IBM
- CA z/VM Products Implement VMSES/E – Brain Jagos, CA
- Coming Releases of CA VM Tools and Future Roadmap – Brian Jagos, CA
- Some Interesting New Technologies Worth Knowing – Neale Ferguson, SNA

## ABSTRACTS

### History of VM Performance

Lynn will present a quick historical perspective on VM performance, beginning in January of 1968 when he started work on CP/67. He will touch briefly on queue management, page thrashing controls, feedback algorithms, microcode assists, page I/O subsystems, multiprocessor support, shared segments, CP pathlengths, CMS file systems, virtual guests, page replacement algorithms and how many of these areas evolved over the last twenty years.

Systems covered will be CP/67, VM/370, VM/370 Resource Manager PRPQ, VM/370 SEPP, VM/SP, and VM/HPO.

#### *Speaker Bio:*

I began work on CP/67 while an undergraduate at Washington State University. I joined IBM at Cambridge Scientific Center in 1970. I worked primarily on CP & VM operating system technology and algorithms while at Cambridge. While at Cambridge, I released the VM/370 Resource Manager. I transferred to IBM San Jose Research in 1977. I continue to work primarily in the area of SCP software. Recently, I have been responsible for the

SYSPAG changes that were released with VM/HPO3.4 and CMS Paging Access Method that are part of VM/PC release 2..

### IBM zEnterprise Unified Resource Manager Overview - The Value for z/VM

At the last Hillgang Richard Lewis introduced the z/VM Implementation of URM. Today, Romney will deeper look at some of the technology and attempt to address the following areas:

- How it would be used in a couple of different circumstances:
  - Migrating external blades/servers to the new environment;
  - Once all the pieces are in place how do they play together, in particular, if I'm a z/VM-z/Linux shop how can I share data with the zBX entities?
- What type of control over the resources do I have from the different places – HMC, z/VM, z/Linux, blade?
- What (other) problems is it solving?
- What additional software will I require?

### CA z/VM Products Implement VMSES/E

CA has a history of acquiring products and along with that, installation and service methods. When every vendor has its own method and some companies like CA have multiple methods, it can be a burden to

learn and remember all the different methods to install, upgrade and service products. To help simplify matters, CA is implementing IBM VMSES/E as the method to be used to install, upgrade and service z/VM system products. Brian Jagos will give an overview of how CA ultimately decided to use VMSES/E and how it works with CA products.

## Coming Releases of CA VM Tools and Future Roadmap

CA remains committed to delivering and enhancing products for securing and managing z/VM systems. Some changes further CA's Mainframe 2.0 strategy for simplifying product management itself, some help users take advantage of technical advances in the operating system and available hardware, and others address customer requests for features and enhancements. Brian Jagos will give a glimpse of z/VM product enhancements coming soon, and also shares CA's roadmap for longer-term features and enhancements.

## Some Opensource Technologies worth Knowing

There are some interesting open source packages you should probably know about: that I'll introduce:

1. ØMQ – ZeroMQ is a high-performance asynchronous messaging library aimed to use in scalable distributed or concurrent applications. It provides a message queue, but unlike

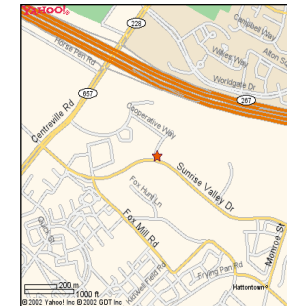
message-oriented middleware, a ØMQ system can run without a dedicated message broker. The library is designed to have a familiar socket-style API.

2. CMIS – Not so much a package as a protocol that has been implemented as CMISLIB which provides APIs enabling the manipulation of documents and directories within content management products such as Alfresco. I will describe a prototype that enables job output from z/OS to be converted to PDF and placed in an Alfresco repository.
3. Sones GraphDB - is an object-orientated graph data storage for a large amount of highly connected semi-structured data in a distributed environment. In contrast to classical relational but also purely object-orientated databases placing its main focus is no longer the data, objects or vertices itself, but their (type-safe) interconnections or edges. This means we are not only interested in the name of an user within a large scale social network, but we are much more interested to know which films his friends-friends watched last summer and thought that they were amazing.

## PARKING

Parking is available in CA parking lot. Please go to the main entrance of the building and register at the front desk.

## HOW TO GET THERE



## TO RSVP

Send mail to [hillgang@vm.marist.edu](mailto:hillgang@vm.marist.edu) indicating that you will be attending and if you have any special dietary issues.

To join the HillGang mailing list and receive further announcements about HillGang meetings send email to [listserv@vm.marist.edu](mailto:listserv@vm.marist.edu) with the words:

`subscribe hillgang firstname lastname`  
in the BODY of your message (not the subject line).  
You will receive a confirmation message with information about confirming your subscription.

**Hillgang**

[hillgang@vm.marist.edu](mailto:hillgang@vm.marist.edu)