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Keynote

zKN01 Back to the Future: System z in the New Enterprise DataCenter

Karl Freund,Vice President, Systems z Marketing and Strategy, IBM Systems Group

System z is experiencing a renaissance, growing new relevance, and even new fans, as the new z10 System and a growing ecosystem put the System z squarely in the sweet spot of datacenter consolidation and redesign for efficiency. This talk will explore the factors driving this resurgence, and pose the questions: "what lies after consolidation?", and "how will System z continue to reinvent itself?"

Level: Basic

System z Hardware Technology and the Green Data Center

zGG01 The Mainframe Proves Kermit Wrong - It's Easy Being Green!

Frank De Gilio

This session will describe how the mainframe is being used to lower the power and cooling consumption in the data center. Using experiences from client engagements this session will describe how data centers are dealing with power and cooling issues and the unique role the mainframe plays in the greening of the data center.

Level: Intermediate

zGG02 Building a Green Data Center

Hilon Potter

We have all heard about the importance of green technologies in a data center. The value of green technologies means more than just reducing your carbon footprint. It means reducing power consumption, creating more efficient systems and saving money. What does it take to build a new green data center? This session will describe the challenges facing someone building a new green datacenter from scratch. It will be a clear-eyed view of the process from someone who is going through it.

Level: Intermediate

zGG03 Green Data Center for Dummies

Frank De Gilio

There is a lot of hype about the green data center. What does it mean? What are we trying to accomplish? How important is it? Is my data center green? How would I know? This session will answer these questions and give you some basic ways to improve data center efficiency.

Level: Basic

zGG04 Tivoli Green Data Center

Scott Drummond

Increasing energy costs and restrictions around growth are key issues facing data center managers today. With a continued need to deliver more computing capacity to the business, consolidate multiple data centers and reduce costs, it is critical that businesses focus on reducing energy consumption, redistributing load or changing operating variables with a view of the total environment and in context of service level commitments to end users. Learn how IBM Tivoli solutions can help customers reduce their demand on energy and realize ROI from energy savings through strategic insight and objective information.

Level: Intermediate

zGZ01 New Enterprise Data Center

Annette Miller

Customers have been asking IBM for guidance as they begin to plan the future of their data centers. Bringing together customer requirements, industry trends, and technology innovations, IBM has introduced a view of the future. With advice and guidance for determining a strategy and getting started today, IBM can help customers transform their data centers. Data centers need to evolve into business innovation centers which can deliver data, applications and services across other data centers and networks. This session will introduce the IBM view of the data center of the future.

Level: Intermediate

zGZ02 System z10 SAN Connectivity

Connie Beuselinck

This is an overview of the newest generation of FICON/FCP features available on System z10. We'll cover the latest functions introduced - performance enhancements for FCP + new support to help reduce the cost of remote mirroring over FICON for z/OS Global Mirror (XRC). We'll update you on the latest interoperability testing performed with switches/directors supporting FICON and FCP. We'll share with you our latest performance benchmarks. The latest features and functions may help you to better achieve your Service Level Agreements.

Level: Intermediate

zGZ03 System z10 I/O Subsystem

Connie Beuselinck

We will introduce you to the new mainframe host bus, InfiniBand, that was introduced with z10 EC. With a unique set of physical resources supporting Parallel Sysplex, Security, Storage Area Networks, and Local Area Networks your enterprise has the flexibility to configure your system for maximum availability to facilitate virtualization and satisfy your Service Level Agreements. We'll show you what's new and what is strategic to your enterprise. We have new capabilities for FICON, FCP, coupling, and the local area network. My magic bag has been "enhanced".

Level: Intermediate

zGZ04 System z10 - a New Generation for LAN Connectivity

Connie Beuselinck

This session includes the newest features and functions for the mainframe to provide connectivity to the Local Area Network (LAN) using the Open Systems Adapter (OSA). We'll introduce the latest generation of hardware and the newest functions offered in the z/OS, z/VM®, z/VSE™, z/TPF, and Linux on System z environments. We'll discuss the results of our latest performance benchmarks and what is different about OSA-Express3. We'll help to identify where does OSA fits in this "marriage of evolution and revolution".

Level: Intermediate

zGZ05 System z10 Extended Distance Solutions

Connie Beuselinck

The System z interoperability laboratory in Poughkeepsie, NY tests extended distances solutions for FICON/FCP directors from Cisco and Brocade and Dense Wavelength Division Multiplexers (WDM) vendors – Nortel, Cisco, ADVA, and Ciena in support of GDPS solutions. We'll discuss the pros and cons of the multimode and single mode fiber optic cabling and the used of OM3 50 micron fiber optic cabling for infrastructure resilience. I'll have topology examples to share with you. We'll also discuss what role InfiniBand plays in support of extended distance solutions.

Level: Intermediate

zGZ06 Introduction to IBM Storage Business Continuity Solutions

Curtis Neal

This session overviews the principles associated with Business Continuity and how the DS8000™ and San Volume Controller play a role as data replication technology for the z/OS platform.

Leve: Basic

zGZ07 What You Need to Know About the Latest DS8000 Enhancements

Curtis Neal

This session will discuss the most recent enhancements, real work experiences and performance improvements to the DS8000.

Level: Intermediate

zGZ08 Virtualized Storage for the New Enterprise Data Center

Curtis Neal

The SAN Volume Controller is designed to increase the flexibility of your storage infrastructure by enabling changes to the physical storage with minimal or no disruption to applications. This session will examine the new features of the SVC.

Level: Intermediate

zGZ09 IBM System Storage for Your z/OS Environment

Curtis Neal

There are many options for disk, tape on System z. This session will provide an overview of the various options. If you are new to storage on System z, this would be a great place to start.

Level: Basic

zGZ10 Mainframe Mythbusting

Frank De Gilio

There is a plethora of disinformation out there about the mainframe and what it can and can't do. People who are ignorant about the mainframe and its capabilities try to downplay its value to an enterprise. Often people who see the mainframe as a threat to their empire will espouse a number of myths that sound logical to the uninitiated. This session will arm you with the information you need to tell those Xbox playing, cell phone text messaging, distributed weenies where they can stick their myths. (Note: Sorry - No computers will be blown up in this session.)

Leve: Basic

zGZ11 Fit For Purpose - Platform Selection Methodology

Frank De Gilio

No platform is perfect for every job. People who espouse the belief that their platform can do anything is setting themselves up for failure. Efficient data centers have the appropriate platforms for the appropriate work. What platforms are best for which work? How does a data center manager know which platform is appropriate? With all of the hype around platforms how does one make an intelligent decision? This session describes how to make sense of the myriad of information in this space and describes the place large machines have in the enterprise.

Level: Basic

zGZ12 Developing a Five Year Mainframe Strategy for the State of Minnesota

Joe Linn, State of Minnesota

Where is our mainframe business going over the next five years? Will we have sufficient business to support our current environment? This session will describe the process that the State of Minnesota's Office of Enterprise Technologies used to answer those questions and the answers they found. The session will cover customer considerations, internal challenges, server consolidation and SOA.

Level: Intermediate

zGZ13 What is Virtualization and Why Would I Want to do it – A User Perspective

Joe Linn, State of Minnesota

This presentation is an introduction to the concepts of virtualization. It will be an enterprise-wide look at the many forms of virtualization currently in use at the State of Minnesota's Office of Enterprise Technologies. We will look at the advantages of virtualization and the challenges associated with it. The speaker will discuss multiple kinds of virtualization with an emphasis on System z.

Level: Basic

zGZ14 The z/OS World is Flat: A Reexamination of the Storage Pyramid

Pat Artis, Performance Associates

Perhaps the most persistent mainframe storage-marketing paradigm of the last four decades is the storage pyramid. That is, data should be placed at the least expensive level of storage that meets its response and initial access time requirements. Since the cost of 2314 class storage in the early days of the System/360 was approximately $1,800 per MB, DASD was reserved for only the most critical data with the majority of an enterprise's data being relegated to tape. In fact, tape sort-work datasets persisted through the early 1970s due to the high cost of DASD storage. However, four decades of technological advances have reduced the cost per megabyte by a factor of more than 20,000:1. As a result, the slope (i.e., differential cost) of the storage pyramid's sides has significantly decreased. Coincidentally, the fully loaded salary expense of storage administrators and the quantities of storage for which they are responsible have vastly increased. Hence, it is time to ask the question, "Is the z/OS storage world flat?" That is, when does the life cycle cost of managing a storage hierarchy exceed the savings offered by a differential storage acquisition strategy?

Level: Advanced

zGZ15 IBM System z10 Enterprise Class Overview

Harv Emery

In this session the speaker, will provide an introduction to and overview of the new IBM System z10 Enterprise Class (EC) server. The session will provide considerable technical detail on new System z10 EC design and function in the areas of the processor chip, book structure, memory offering and overall system structure. It also will provide an introduction to System z10 EC I/O related topics that will be presented in more detail in other sessions.

Level: Intermediate

zGZ16 System z LPAR Advanced Topics

Harv Emery

Come to this session to learn about the latest enhancements in System z virtualization and logical partitioning (PR/SM LPAR) technology including those just introduced on the newest IBM mainframe system, the IBM System z10 EC. The focus will be on support for up to 64 logical processors, z/OS HiperDispatch, dynamic change support for LPARs, new function introduced to support Enhanced Book Availability, support introduced in the latest HMC and SE LIC levels, the z/VM LPAR type, and support for Capacity on Demand. Attendees should be familiar with PR/SM LPAR concepts.

Level: Advanced

zGZ17 IBM System z9 BC and EC Update

Harv Emery

Come to this session for an update on IBM System z9® mainframes including the Business Class, introduced in May 2006 and still the newest midrange IBM System z mainframe and the Enterprise Class, which is still available but has just yielded high end laurels to the new System z10 EC. The presentation will review System z9 EC and BC processor structure and capabilities with emphasis on the new features and function introduced by recent announcements in 2007 and 2008. Included in that focus will be the new InfiniBand coupling links now available on System z9 dedicated coupling faculties.

Level: Intermediate

zGZ18 IBM System z10 EC Capacity on Demand

Harv Emery

Come to this session to learn about the latest enhancements in the System z Capacity on Demand offerings just introduced on the newest IBM mainframe system, the IBM System z10 Enterprise Class. Learn how Capacity Backup for emergency replacement capacity and On/Off Capacity on Demand for temporary additional capacity have been reinvented on System z10 to increase their value, flexibility and responsiveness, to remove restrictions, and to add a Capacity Provisioning Architecture. Learn about the new replacement capacity offering, Capacity for Planned Event.

Level: Intermediate

zGZ20 TS7700 Overview and Encryption with TS1120 Tape Drives

Maurice McCullough

This session will give big picture overview of IBM's newest z System VTS product TS7700. Presentation will cover product components, benefits to customer with main focus being how to use IBM's tape encryption solution on the TS7700. Step-by-step screen shots will explain in detail how to setup and use tape encryption on the product. High-level tape encryption only will be covered students will be expected to understand tape encryption.

Level: Intermediate

zGZ21 IBM Tivoli System Automation Application Manager

Raimund Thielker

How can you automate the operations of your heterogeneous business applications running on z/OS, AIX®, Linux®, Windows®, SUN Solaris? How can you manage multiple z/OS sysplexes? How can you establish a Business Continuity management hub on System z? With System Automation Application Manager (SA AppMan) you can automate your business applications end to end from a single point of control, managing cross cluster dependencies. The functionality and platform coverage of SA AppMan is extended to include coordinated disaster recovery scenarios with GDPS covering z/OS and distributed platforms.

Level: Intermediate

zGZ22 GDPS/PPRC Multi Platform Resiliency for System z (xDR)

Raimund Thielker

If you are using Linux on System z together with z/OS for your critical business applications, how can you provide coordinated high availability and disaster recovery? With GDPS®/PPRC Multi Platform Resiliency for System z and IBM Tivoli® System Automation you can manage the Linux and z/OS systems and their data in a coordinated way, supporting planned and unplanned restart of systems in place, HyperSwap™ and site takeover. These functions are available for Linux systems running under z/VM and in LPARs on System z.

Level: Advanced

zGZ44 The Business Value of System z Virtualization Leadership

Reed Mullen

IT managers are facing significant cost issues in deploying server workloads on distributed systems. x86 server virtualization support is perceived by some to be the solution to solving the "server sprawl" problem. Perception is not always reality. This session will explain why System z virtualization support offers higher levels of business value for hosting virtual server workloads. The fundamental differences between z/VM on System z and x86 virtualization offerings such as VMware will be discussed. Server virtualization concepts will be explained for the uninitiated, and specific value propositions for Linux-on-z/VM will be highlighted.

Level: Intermediate

zGZ45 Changing the Way Computers Compute: Decimal Arithmetic on System z

Michael Cowlishaw, IBM Fellow

Most data in commercial and human-centric applications are decimal, and floating-point decimal is increasingly important as these applications become ever more complex. Benchmarking has indicated that some applications spend a considerable amount of time in decimal processing, and IBM has now implemented decimal floating-point in System z9 microcode and new System z10 hardware, POWER6™ hardware, and in many software products. In this talk, Mike will cover: why decimal arithmetic is increasingly important; why IBM has added hardware support; the decimal floating-point formats and arithmetic which is in the IEEE 754 draft, DB2®, C and other languages, and in hardware; how to exploit the new hardware and software in Java™ and C. Please see: http://www2.hursley.ibm.com/decimal for details and an FAQ.

Level: Intermediate

zLG06 System z and Cell, an Innovative High Performance Consolidation & Compute Opportunity

Bill Reeder

This session will highlight the architecture of the IBM Cell BE engine and highlight many of the capabilities of the business and technical possibilities that are being explored with these two technologies. Inter-operability is with both Legacy z/OS applications as well as System z Linux applications. Come here about the processor responsible for breaking the Petaflop barrier.

Level: Intermediate

zLG07 IBM Transformation: Major IT Consolidation Initiative for Project Big Green

Bill Reeder

As a piece of IBM's Project Big Green, IBM has announced a global shift to Linux on the mainframe. This session focuses on an update to IBM's consolidation program moving thousands of distributed application architecture servers to about 30 System z servers. Listen to how IBM's efforts will save 80% on energy consumption, while realizing significant savings in labor and software costs while dramatically accelerating speed to market, increasing operational availability while running on a world class secure environment.

Level: Intermediate

zGZ51, zGZ52 Introduction to REXX: Hands-on-Lab Parts 1 & 2

John Franciscovich and Brian Hugenbruch

The REXX™ Language has been with us for more than two decades. It was designed to be easy (and fun!) to use, and continues to be popular across many computing platforms. Would you like to boost your skills by learning the basics of the powerful REXX Language? This two-part hands-on-lab is for you. We'll begin with the basic syntax and expressions, continue with class exercises, and progress to more advanced topics. This lab continues with Part 2.

Level: Basic

zGZ53 HCD Lab for z10

Maurice McCullough

After attending the HCD session for coding a z/10, come to this lab session and learn how to on a live system to get a chance to practice coding a z/10 system. Instructor will provide a hands on step by step lab guide to help in this lab. Learn how to code new InfiniBand links along with coding z/10 for SYSPLEX.

Level: Intermediate

Begin with the Basics

zBB01 Demystifying the z Mainframe - A Technical Overview

Brian Hatfield

Get the big picture, a technical overview of the System z mainframes, including the newest IBM mainframe, The IBM System z10 EC server. We will discuss server design, operating systems, processing power, terminology and how the hardware architecture is utilized to achieve massive I/O throughput in the mainframe environment?. This session will help you to understand those concepts and more. We will be putting together the pieces from data and I/O processing to configuration and LPAR activation process to identify the mainframe Big Picture. This is a basic to intermediate session.

Level: Basic

zBB02 System z HMC Basics

Brian Hatfield

This session will discuss the System z HMC/SE purpose, the HMC usage, it's basic functions and navigation techniques. We will identify how to successfully set up Ids and Pws for both local and remote users, activate objects with and without profiles, edit profile information and do initial problem determination using the HMC. Hints and tips for operation and navigation will be provided. We will discuss both the Classic style and Tree style user interfaces supporting System z servers. Recent HMC enhancements will be also be identified.

Level: Basic

zBB03 DFSMS Basics

Scott Drummond

What is DFSMS™? It's the I/O subsystem for z/OS...Oh Wait! It's the tape management system for z/OS... Oh Ya...It's the Lifecycle Manager for all z/OS data...Opps..It also provides all the programmatic access to z/OS data...Oh you didn't know that's it also makes z/OS an NFS server and Client?...Hmmm...How could we forget it's Disaster Recovery capabilities? We'll overview all the main functions of DFSMS and how it helps most z/OS customers productive with managing their Petabytes of data!

Level: Basic

zBB04 Understanding Your WLM Service Policy

Glenn Anderson

This is a basic session that will work through the elements of a WLM Service Policy. How do the four goal types - Average Response Time, Percentile Response Time, Velocity and Discretionary - operate, and how do you set goals for your workloads? What exactly is Importance, and why is it a key to an effective policy? How do you classify work into Service Classes? Finally, how can RMF data be used to analyze if your WLM goals are being met, and if not, why not? The answers to all these questions and more, as this session discovers how to manage z/OS workloads with the power of WLM!

Level: Basic

zBB05 zIIPs and zAAPs: Understanding the Basics

Glenn Anderson

If you are new to the idea of zAAPs, zIIPs and specialty engines, or are confused with all the details, then this session is for you. The speaker will begin by looking at what makes work zAAP eligible, including JVMs and XML System Services. Then a look at enclave SRBs, their use by DB2, IPSec, XML System Services and z/OS Global Mirror, and what makes work zIIP eligible. Other topics will look at the basics of how the z/OS dispatcher gets involved, the controls in PARMLIB, and how to predict how much zAAP and zIIP eligible work you have on z/OS. This is a basic session, and will prepare you to understand more advanced information.

Level: Basic

zBB06 ICF Catalog Management Fundamentals

Janet Sun, Mainstar

ICF Catalogs are an integral part of the MVS operating system. Without them, data cannot be accessed. The speaker will provide an overview of catalog structures and provide an introduction of how to efficiently manage your catalog environment. Day-to-day activities including backup, recovery and various diagnostic options will be discussed. A basic understanding of VSAM terminology is assumed.

Level: Basic

zBB07 Assembler Boot Camp: Part 1 of 5

John Ehrman

This sequence of sessions provides a quick and easy introduction to the most important elements of the IBM mainframe's Assembler Language. Each session covers key concepts to help you understand and write simple assembler programs, and provides illustrative examples. Your learning will be considerably enhanced if you can bring a PC-compatible laptop. We will provide software with the ASSIST/I assembler and host emulator you can use to write and test your programs.

Level: Basic

zBB08 Assembler Boot Camp: Part 2 of 5

John Ehrman

This sequence of sessions provides a quick and easy introduction to the most important elements of the IBM mainframe's Assembler Language. Each session covers key concepts to help you understand and write simple assembler programs, and provides illustrative examples. Your learning will be considerably enhanced if you can bring a PC-compatible laptop. We will provide software with the ASSIST/I assembler and host emulator you can use to write and test your programs.

Level: Basic

zBB09 Assembler Boot Camp: Part 3 of 5

John Ehrman

This sequence of sessions provides a quick and easy introduction to the most important elements of the IBM mainframe's Assembler Language. Each session covers key concepts to help you understand and write simple assembler programs, and provides illustrative examples. Your learning will be considerably enhanced if you can bring a PC-compatible laptop. We will provide software with the ASSIST/I assembler and host emulator you can use to write and test your programs.

Level: Basic

zBB10 Assembler Boot Camp: Part 4 of 5

John Ehrman

This sequence of sessions provides a quick and easy introduction to the most important elements of the IBM mainframe's Assembler Language. Each session covers key concepts to help you understand and write simple assembler programs, and provides illustrative examples. Your learning will be considerably enhanced if you can bring a PC-compatible laptop. We will provide software with the ASSIST/I assembler and host emulator you can use to write and test your programs.

Level: Basic

zBB11 SubCapacity Pricing and SCRT Nuts and Bolts

Kay Adams

If your shop decides to migrate to SubCapacity Workload License Charges for zSeries, use of the SubCapacity Reporting Tool (SCRT) will be required. Attend this session to understand what the SCRT is, how it works, how to use it and how to interpret the output of the tool, the Sub-Capacity Reports. This session will also cover the planning steps for successful implementation of SCRT and discuss the end-to-end implementation process of collecting the required SMF data, running SCRT, reviewing the reports and submitting them to IBM.

Level: Basic

zBB12 Introduction to WebSphere For z/OS

Hugh P Watson Jr

This session will introduce the attendee to the WebSphere Application Server for z/OS environment, the features and services, and infastructure it requires.

Level: Basic

zBB13 Introduction to Communications Server for z/OS

Linda Harrison

The Communications Server for z/OS (CS) consists of VTAM® and TCP/IP. It is required for all communication to other nodes.

Level: Basic

zBB14 z/OS Communications Server TCP/IP VIPA (Virtual IP Address)

Linda Harrison

An introduction to VIPA, DVIPA, and Sysplex Distributor.

Level: Basic

zBB15 FICON Basics

Brian Hatfield

What is FICON®? How is it different from ESCON®? What is a FICON "exchange"? What is Buffer-to-Buffer credit, and how does it affect a FICON fabric? How does MIDAW help me? This presentation will provide the answers to these questions by describing the basics of the FICON architecture from the time a channel "comes to life" all the way through the execution of a typical I/O request. Topics will also include how a particular channel is selected to perform an I/O operation and the steps the channel goes through to pass commands and data to and from the control unit.

Level: Basic

zBB16 Introduction to SMF Data Collection

Mary Astley

Collecting measurement data on z/OS system performance requires planning and setup to gather the desired information. SMF data is a key provider of measurement data for a z/OS system. This session will discuss the SMF parameters which control how many records and how often records are written to the SMF data sets. As RMF is also a key provider of measurement data, the RMF parameters that control the SMF records written by RMF will be discussed. This is an introductory session.

Level: Basic

zBB50 Assembler Boot Camp: Part 5 of 5

John Ehrman

This sequence of sessions provides a quick and easy introduction to the most important elements of the IBM mainframe's Assembler Language. Each session covers key concepts to help you understand and write simple assembler programs, and provides illustrative examples. Your learning will be considerably enhanced if you can bring a PC-compatible laptop. We will provide software with the ASSIST/I assembler and host emulator you can use to write and test your programs.

Level: Basic

zBB51 System Automation for z/OS - Beginners Hands-On Lab

Gunnar Freitag and Raimund Thielker

This lab is designed for z/OS users, who are familiar with TSO/ISPF and who have already been logged on to NetView. A short theoretical part will give you an ultra-short product introduction. Then you will get a working document to guide you when doing your fist steps with SA z/OS. You will learn how to: • Define a new application using the application class concept; • Create an application group to manage multiple applications as a whole • Setup relationships to existing applications; • Exploit the reporting capabilities of SA z/OS; • Test the new policy on the life system.

Level: Basic

zVB01 The Very Basics of z/VM: Concepts & Terminology

Dr. Brian Wade

This presentation will give you a strong understanding of what the industry buzzword "virtualization" means in the context of System z processors and the z/VM operating system. Key topics will include System z computing concepts, the virtual machine model, commands and facilities for configuring virtualized resources, virtual machine scheduling and dispatching, methods for virtualizing memory and I/O devices, and ways z/VM's virtual machine model transcends mere hardware virtualization.

Level: Basic

zVB02 The z/VM Control Program (CP): Useful Things to Know

John Franciscovich

If you are a systems programmer who is brand new to z/VM, you've been away from VM for a while and need a refresher, or you're just curious about z/VM, this session will provide useful information about the z/VM Control Program (CP). We'll start with an overview of CP and how it uses disk space, memory, and devices, followed by IPLing (booting) z/VM, defining virtual machines, virtual networking, and the various ways you can interact with CP. We'll conclude with an introduction to collecting diagnostic information for both testing and problem determination.

Level: Basic

zVB04 The Basics of Using z/VM

Brian Hugenbruch and John Franciscovich

If you are new to z/VM, with either a Linux and/or z/OS background, or if you had simply stepped away from VM for a while and want a VM refresher, this is the session for you! We will show you which VM commands to use, how data is stored, what the file system looks like, how to edit files, and introduce some of the many tools available for you to be productive in this new environment.

Level: Basic

zVB05 z/VM TCP/IP Stack Configuration

Miguel Delapaz

This presentation is an in depth look at configuration of the z/VM TCP/IP server. Basic and advanced configuration topics will be discussed, with an emphasis on practical examples. Topics such as elementary routing, network hardware, and security are discussed in as much depth as necessary to provide an understanding of how to configure them on the z/VM TCP/IP server. Common configuration errors will also be addressed. While prior experience with z/VM TCP/IP is not necessary for attendees, some basic knowledge of z/VM minidisk structure is assumed.

Level: Basic

zVB06 Introduction to VM Performance

Dr. Brian Wade

If you are just getting started understanding VM performance, this presentation will give you the foundation and tools you need to tackle various performance problems. We will talk about configuration guidelines, monitoring, and tuning, and look at a simple case study. We'll also give you pointers to additional information so that you can learn even more on your own.

Level: Basic

zVB07 Introduction to Automatic SSL Support in z/VM TCP/IP

Brian Hugenbruch

SSL (Secure Socket Layer), also known as TLS (Transport Layer Security), is traditionally used to secure Web transactions over the Internet. Most VM Web servers support SSL. However, this protocol has also been extended to Telnet and FTP. IBM implemented automatic SSL support in order to provide general-purpose SSL support for z/VM TCP/IP servers without having to change each server individually. This session explains SSL from an externals viewpoint and describes how to exploit it with z/VM TCP/IP.

Level: Basic

zVB08 Introduction to Performance Toolkit for VM

Mike Donovan

The Performance Toolkit for VM is an optional, priced, pre-installed feature of z/VM that provides enhanced capabilities for a z/VM systems programmer, system operator, or performance analyst to monitor and report performance data. Come to this session to see an overview of the function available.

Level: Basic

zVB51 Running z/VM to Host Linux - Installation and Customization - Part 1

Richard Lewis and Jon vonWolfersdorf

With the rapid growth and popularity of Linux on System z, many businesses are faced with the challenge of deploying a z/VM system to support the planned Linux workload. This four part hands-on lab is designed to begin the process of developing z/VM system programming skills. The seminar will begin with an overview of z/VM and virtualization concepts. The remainder of the lab will be devoted to giving each student the opportunity to perform the various system programming tasks necessary to configure a new z/VM installation for use and cloning Linux virtual machines in a z/VM environment. Each team of attendees at a workstation will have a complete z/VM system running in a virtual machine to configure and work with. Skills developed through this lab may be reinforced through attendance at other conference sessions.

Level: Basic

zVB52 Running z/VM to Host Linux - Installation and Customization - Part 2

Richard Lewis, and Jon vonWolfersdorf

Running z/VM to Host Linux - Installation and Customization - Part 2.

Level: Basic

zVB53 Running z/VM to Host Linux - Installation and Customization - Part 3

Richard Lewis and Jon vonWolfersdorf

This is the third part of the hands-on-lab, Running z/VM to Host Linux - Installation and Customization.

Level: Basic

zVB54 Running z/VM to Host Linux - Installation and Customization - Part 4

Richard Lewis and Jon vonWolfersdorf

This is part 4 of the hands-on-lab, Running z/VM to Host Linux - Installation and Customization.

Level: Basic

Personal Development Sessions (zPBxx)

zBP01 Are You Listening

Mark Meredith

We do it all day long, yet 80% of all communication problems are caused by poor listening. In this highly interactive and entertaining session you will learn tools and techniques which will enhance your listening and communication skills. You will also experience ways to ensure that people are listening better to what you have to say. Special emphasis will be spent on listening as an effective skill when negotiating and enhancing your influence on others.

Level: Basic

zBP02 Temperament: Better Understanding Yourself and Others

Mark Meredith

Clients, colleagues and friends have different personalities which make for an interesting and complex world. Examining the theory of temperament can provide the participant with insight into the diversity of personality and better understand why people act and behave the way they do. IT professionals will better understand their clients and colleagues. Spouses will better understand their mates. This workshop introduces participants to the fascinating world of Temperament and will provide insight into one’s own predispositions towards certain attitudes, behaviors and actions.

Level: Basic

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zBP03 Memorable Meeting Management

Mark Meredith

How many of us have attended face-to-face meetings or conference calls in which there was no clear agenda, not much was accomplished, those critical to the meeting didn't attend and no meeting minutes were kept? Memorable Meeting Management delivers the nuts, bolts and hidden gems of successful meeting management in a unique and entertaining way. Those attending will leave with all they'll need to be memorable meeting managers.

Level: Basic

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zBP04 Growing Your Leadership Skills

Mark Meredith

This fast paced session explores what leadership is, how it's viewed within the IT industry and what are three critical skills are needed to develop one's competencies in this arena. Practical tools are presented on how to handle organizational ambiguity, manage complex systems and communicate with colleagues on a variety of levels to drive more effective business results.

Level: Basic

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zBP05 Mutual Wants and Offers: Managing Expectations

Mark Meredith

One of the prime tenets for establishing good relationships with peers, clients, your manager; your employees are the establishment of clear expectations. Unclear expectations have been the ruin of many an engagement creating client dissatisfaction and poor morale. The best way for creating clear expectations is establishing a dialogue based on mutual "wants and offers". This workshop will provide participants with the tools and techniques to enhance relationships improve client satisfaction.

Level: Basic

Building a Service-Oriented Architecture Using System z

zAS01 Getting Your System z Network Ready for SOA

Alfred B Christensen

How do you ensure reliable, scalable, and high-performance network access in a SOA environment? How do networking trends such as IPv6, virtualization, and security affect your application and network strategies? And how can you use SOA to get even more mileage from your venerable SNA applications? In addition to being well known as the premiere platform for hosting traditional mission-critical workloads, the System z server is ideal for hosting SOA-based workloads. This session will discuss considerations for implementing a network access strategy for SOA workloads on the System z platform.

Level: Basic

zAS02 What is ITIL and IT Service Management?

Annette Miller

Is your organization talking about ITIL, or IT Service Management? ITIL is the IT Infrastructure Library and using a set of best practices, is the most widely accepted approach to IT service management in the world. This session will introduce ITIL and IBM Service Management as well as the role of the products in a service management implementation. IBM Service Management brings people, processes, information and technology together for businesses to deliver service excellence and innovation. The focus will be on the service management platform and the operational management products.

Level: Basic

zAS03 Keeping Your Head Above Cloud Computing

Annette Miller

Is the buzz about cloud computing confusing? Weren't the vendors just talking about things like virtualization? This session will talk about the IBM view of cloud computing, how it relates to business and the New Enterprise Data Center. IBM is currently working with customers to develop the next set of technologies to help enhance virtualization and provide a foundation for clouds. You will hear about the strategy and direction for this technology.

Level: Basic

zAS04 Batch Modernization: Enable, Enrich, Evolve

Chris Vignola

The development of modern online systems, based on Java, J2EE, WAS, and other newer technologies have been largely silent on the topic of batch. But as business demands increase cost and competiveness pressures, the sleeping giant, batch, demands answers to key questions, essential to its future. Check out this riveting session to learn about IBM's thoughts on matters such as the role of batch in SOA, making 24x7 batch/online co-existence a reality, dramatically attacking batch processing costs, and many other exciting topics relevant to this critically important domain.

Level: Intermediate

zAS05 SOA & Globally Integrated Business - The Platform Matters

Carl Wohlers

Most enterprises are adopting Service Oriented Architecture. Some are taking the next logical step, creating a dynamic e-business to better integrate into the global economy. Global cross enterprise collaboration creates significant dependencies. The dependency becomes increasingly critical as we move toward synchronous "real time" interaction. The System z delivers the necessary capabilities in an integrated package. This session will explore the essential benefits of leveraging System z in support of SOA to effectively participate in the emerging global information model.

Level: Intermediate

zAS06 Practical SOA for System z: An Introduction

Glenn Anderson

"Service Oriented Architecture," or "SOA," can be a confusing array of acronyms and terminology. In this session we describe the key elements of SOA architecture in a clear manner. We cover what a "service" is, why orienting applications around a service architecture is of value, and show how this can be done on a z/OS environment.

Level: Basic

zAS07 Practical SOA for System z: Web Services Overview

Don Bagwell

Web Services is one of the key elements of an SOA design (though not the only element). In this session we'll cover what "web services" is and how it is implemented on key systems such as CICS, DB2, WebSphere® and IMS™.

Level: Basic

zAS08 Practical SOA for System z: Enterprise Service Bus (ESB)

Don Bagwell

The Enterprise Service Bus (ESB) is frequently portrayed as a magical "patch panel" that connects anything to anything. In reality it is not magical at all, but rather an implementation of hardware and software that allows the exchange of messages in an intelligent manner. In this session we cover the concepts as well as focus on two IBM offerings on z/OS -- WebSphere Message Broker and WebSphere Enterprise Service Bus.

Level: Intermediate

zAS09 CICS and Web Services

Dennis Weiand

Like many IBM customers, you are planning to implement Web Services and the Service Oriented architecture, but also have 'legacy' applications like CICS® that need to be integrated. CICS has 'first class' support of Web Services, with support for the main Web Services standards. CICS can not only be a Web Service provider, but can also be a Web Service consumer. Come to this session to understand how to leverage your CICS assets and integrate with the Web Services technology.

Level: Intermediate

zAS10 z/OS and Linux for System z: Selecting Your SOA Platform

Bill Seubert

This session explores some aspects of methodology to help you build you SOA infrastructure design on System z to meet your requirements, including making architecture decisions for integration, SOA architectural patterns, criteria for evaluation of the operating systems on System z and the examples of customer objectives and architectural decisions. You will gain understanding how platform decisions affect the ability of your SOA infrastructure to meet your requirements, in particular, where z/OS and Linux for System z are appropriate for your workloads.

Level: Basic

zAS11 DB2 for z/OS in an SOA

Maryela Weihrauch

Service Oriented Architecture (SOA) is the center of heated architecture discussions within IBM and at our customers. The possibilities of SOA are as dramatic as the possibilities that the internet created. This session will discuss the DB2 z/OS role in SOA with focus on topics like how the DB2 customer can make their legacy DB2 applications available in a SOA architecture, how does DB2 z/OS integrate with web services, what are the risk factors. It describes the environment and technologies to involve DB2 for z/OS producing & consuming SOA today and what can be expected in the near future.

Level: Intermediate

zAS12 Introducing Security Terms into an SOA Environment

Jack Jones

You have probably heard an introductory session on SOA that defines the terms and the SOA framework. This introductory session is a follow-on to those sessions. It will look at the security within the SOA framework. It will look at a 'typical' generic situation and define the security terms and concepts. The speaker will define the differences between transport security and message security, and look at the considerations between the two.

Level: Basic

zAS13 IBM Tivoli Business Continuity Process Manager

Raimund Thielker

The new IBM Tivoli Business Continuity Process Manager (BCPM) provides you with a set of customizable IT Infrastructure Library (ITIL) - aligned processes to plan, test, and execute IT service continuity tasks. These processes are integrated with existing Tivoli solutions such as IBM System Automation for z/OS (SA z/OS), Geographically Dispersed Parallel Sysplex (GDPS), and IBM Tivoli Application Dependency Discovery Manager (TADDM), to help users perform operational tasks, monitor status of the tasks, and verify completion of each of the tasks.

Level: Intermediate

zAS14 Extending SOA with Business Process Management

Rob Rowe

Today, many companies and organizations are merging, consolidating and rethinking their operations and streamlining their business processes to reduce operating costs, minimize bottlenecks, enhance customer services, reuse legacy applications and back-end systems and increase overall productivity and profits. Managing business processes and being able to change them easily and quickly is critical to such initiatives. In this session you'll learn about the benefits of Business Process Management and the associated IBM WebSphere® middleware for System z™.

Level: Intermediate

zAS15 The ABC's of Web 2.0

Theresa Tai

Today we hear a lot about Web 2.0. What is Web 2.0 anyway and why is this important? Come and learn the new emerging technology, builders of the next generation web. We'll look at the Compound topic including social-networking, rich internet application with Ajax, RSS/ATOM as feeds, REST, mashup and their characteristics, impact on the web. How IBM middleware solutions is adopting and leveraging the Web 2.0 technology, i.e. WebSphere Portal, Lotus Collaboration, and WAS feature pack for Web 2.0, etc. At last, the toolkits that supports Web 2.0 programming model and development.

Level: Basic

zEO02 SOA Roadmap and Application Integration for z/VSE

Wilhelm Mild

The ability to Integrate proven business logic across platforms has legitimate business value. There are various possibilities (such as CICS Transaction Gateway, Web Services, and MQ) to include z/VSE into the broader solution. Each alternative has its own capabilities - as well as its own pros and cons. SOA is a useful concept, that enables z/VSE for solution integration with other platforms. Come see how to exploit all these possibilities.

Level: Basic

zEO03 Using SOA Web Services with z/VSE

Ingo Franzki

z/VSE can participate in SOA environments and act as SOAP client and server. The z/VSE implementation of Web Services allows you to use existing CICS applications as Web Services. It also allows you to call an external Web Service from a CICS application on z/VSE. This session illustrates the use of these z/VSE capabilities. The CICS2WS Toolkit is a no charge development tool that helps to transform a CICS application into a Web Service on z/VSE. It also helps define the interface a z/VSE application can use to call on an external Web Service on a remote platform.

Level: Intermediate

System z Security

zSS01 z/OS CS - What is All That Networking Security About?

Alfred B Christensen and Sam Reynolds

The session will discuss how to protect the operating system platform from malicious attacks through the IP network and will also discuss how to secure the data that is transmitted over the network to/from IP applications running on the z/OS platform. Topics such as IPSec (secure Virtual Private Networks), IPSec on zIIP processors, IP filtering, Intrusion detection and prevention (IDS), securing application access through authentication and encryption using SSL/TLS (including transparent SSL/TLS processing by the z/OS Communications Server) - will all be introduced.

Level: Intermediate

zSS02 Safe and Secure Transfers with z/OS FTP

Alfred B Christensen

FTP is a readily available, convenient, and inexpensive technology to transfer files and data sets between z/OS and a virtually unlimited number of other operating system platforms. FTP is not a bad technology, as some recent press might lead you to believe. FTP can be misused and cause problems if the FTP service isn't properly set up to prevent potential security exposures. This session will explore a wide range of aspects related to how FTP works on z/OS and how to make it work in a safe and secure manner.

Level: Intermediate

zSS03 Introduction to Cryptography

Ernest Nachtigall

Many rules and regulations such as PCI-DSS suggest or require the use of encryption to protect sensitive data. This session will provide an introduction into what and how encryption works, the functions that encryption helps to provide and some of the acronyms you may run across.

Level: Basic

zSS04 Setting up Encryption on the z10

Ernest Nachtigall

This session will lead you through the process of configuring the z10 hardware and software for encryption. Topics covered will be HMC CEC and LPAR definitions, hardware recommendations, CPACF versus CEX2C, ICSF set up and recommendations, performance recommendations.

Level: Advanced

zSS05 z/OS Security Update

Jack Jones

This is the update of the z/OS security features that have been introduced in z/OS 1.8, 1.9. and 1.10. The some security features will be included from RACF, LDAP, digital certificates, and the z/OS Communication Server. How these new security features might be used in security solutions will also be depicted.

Level: Intermediate

zSS06 How System z Security Addresses the Payment Card Industry Standard (PCI)

Jack Jones

With recent events, the security and protection of your customers private and personal information has become a critical requirement for the IT specialist. There are many legal law that have required this for years now but recently the enforcement of these laws has tighten and the penalties have increased. One of these compliance laws is called Payment Card Industry Data Security Standards (PCI-DSS) which is being set by the credit card companies. This session will review the PCI standards and what they mean to the IT security environment. Then the session will demonstrate the security features of the z/OS and how they can assist in protecting the personal information and in passing a PCI audit.

Level: Intermediate

zSS07 Security Concepts for Linux for System z

Jack Jones

Linux runs on the System z hardware. This session will explain security with Linux for System z and how the System z hardware can be used to enhance the normal security features of Linux. Also configurations will described that will provide security solutions that utilize both the z/OS and/or z/VM security features with the security and flexibility of the Linux on System z.

Level: Intermediate

zSS08 Crypto and Disaster Recovery

Greg Boyd

This session will look at Disaster Recovery from a crypto perspective. We will consider the differences in crypto hardware that may impact recovery at the DR site and review the procedures for moving and loading the master keys on the DR machines.

Level: Advanced

zSS09 ICSF Setup and Configuration

Greg Boyd

This session will explain the role of ICSF, the z/OS component that provides the interface to the System z crypto. It will look at the initialization and setup of the crypto environment, and review the parameters that are required, and how those parameters can impact performance.

Level: Intermediate

zSS10 System SSL and Crypto

Greg Boyd

This session will review the SSL and TLS protocol and how it uses both asymmetric (PKA) and symmetric algorithms to provide secure communications. We'll look at the IBM crypto hardware and which devices support the protocol, and finally consider the performance implications of the SSL/TLS workload. We'll also touch on IPSEC and how it uses System z crypto.

Level: Advanced

zSS11 PCI Security Compliance with z/OS Communications Server

Gwen Dente

Matchmaker, matchmaker, make me a match! Are you wanting to survive that PCI Compliance audit on your z platform? So much to do and so little time to do it in? And you don't even know where to start? Come to this session to hear an overview of the most pressing PCI requirements and then learn how to satisfy those requirements with some "tricks of the trade" available in z/OS Communications Server! This session will pair individual PCI compliance line items with actual technologies to "make you that perfect match"!

Level: Advanced

zSS12 Leveraging the ICSF Runtime to Achieve PCI Compliance

James R. Fyffe Jr.

ICSF has been available on z/OS since the Early 90's and yet; use and dependency on this component has seen significant growth over the last Five Years. Why is this? One primary driver is clients are leveraging ICSF to achieve PCI compliance by rendering the Credit Card Primary Account Number (PAN) unreadable anywhere it is stored. In this session, the presenter will share strategies from a workshop that will allow you to leverage ICSF within your existing business logic to encrypt sensitive data.

Level: Advanced

zSS13 RACF Update

Mark Nelson

z/OS V1R10 delivers on some of the highest-priority client requirements, including custom field support and finer granularity in allowing password resets. This session reviews the latest enhancements to RACF!

Level: Intermediate

zSS14 RACF and DB2: Perfect Together!

Mark Nelson

Choosing between using native DB2 and RACF® for controlling access to DB2 objects requires an understanding of how RACF and DB2 work together. This introductory overview session describes how to use RACF to control access to DB2 resources. You will see how RACF eliminates DB2's cascading revocation and automatic deletion of access control rules when a DB2 object is deleted, and how RACF allows the definition of access rules before a DB2 object is created. Included in the session: discussions of the latest in enhancements in DB2 Version 9: The Trusted Context and Role based access control.

Level: Advanced

zSS15 Digital Certificate 101

Wai Choi

This session gives an overview of public key cryptography, digital certificates and key rings. The creation/management/revocation of digital certificates will be illustrated through the z/OS RACF RACDCERT command, the z/OS PKI Services and the z/OS System SSL gskkyman utility. How they are used by System SSL in securing a connection will also be discussed.

Level: Basic

zSS16 RACDCERT Gotchas and Usages

Wai Choi

This session will discuss the RACDCERT command in depth, including common errors and usages. Scenarios like how to share a certificate between multiple servers and how to renew a certificate with the old private key or a new private key will be discussed. Certificate name filtering and HostIdmapping used to map digital certificates to traditional MVS user IDs will also be included in the discussion.

Level: Advanced

zSS50 Building AT-TLS, IPSec and IDS Policies to Secure System z: Hands-On Lab

Gwen Dente

The hands-on lab in two parts steps the attendee through two labs using the IBM z/OS Configuration Assistant GUI in order to implement strategies for PCI compliance. One lab allows the student to define an AT-TLS (SSL/TLS) security policy with encryption and authentication; the other lab steps the student through the process of creating a VPN definition that provides encryption and peer authentication with an IPSec policy. The labs are structured to provide a short introduction to concepts followed by hands-on exercises.

Level: Advanced

zSS51 Having a taste on PKI Services - Hands-on Lab

Wai Choi

A hands-on lab for users to request browser certificates through the machines provided and install them in the browser. They can also request server certificates, starting from generating a certificate request using RACDCERT. The participants can perform some administrator's functions to query the requests and the certificates. They can revoke the certificate they created and query the certificate status through Certificate Revocation List (CRL) and Online Certificate Status Protocol (OCSP). The user can also try to customize the PKI Services template file and configuration file.

Level: Basic

zVS01 z/VM Security Update

Alan Altmark

This session provides detailed information about the security enhancements in z/VM V5.3. We will discuss mixed-case passwords, password phrases, LDAP, directory commands and enhancements to the support for SSL/TLS in TN3270E, FTP and SMTP.

Level: Intermediate

zVS02 Securing Linux with RACF on z/VM

Alan Altmark

In this session we will discuss the new z/VM LDAP server and how to use it with the z/VM RACF Security Server. Learn how to create a shared user name space and authenticate Linux users against the RACF database.

Level: Intermediate

zVS03 z/VM: Using the Directory to Go Beyond the Basics

Sam Cohen

Where do you go after you've installed z/VM using the Guide to Automated Installation? Using the entries and options of the z/VM Directory as a guide, this lecture will explore more detailed topics involving the premier System z Virtualization environment. These topics will include Systems and Management Optimization via Virtualization, Disk (DASD) topics, Resource Prioritization and Security. Optional z/VM components such as z/VM Security Server will not be covered.

Level: Intermediate

zVS04 Security Zones on z/VM

Alan Altmark

In multi-tier network applications, there is usually the concept of "demilitarized zones", or DMZs, that each contain a set of servers. Each DMZ is separated from others by firewalls and by access policies to ensure that there is no unwanted user access or flow of data. Learn in this presentation how to properly build virtual DMZs and to integrate virtual servers into your existing DMZs. We will also discuss using the RACF Security Server on z/VM to prevent a "red zone" server from connecting to a "green zone" network or "green zone" data.

Level: Intermediate

zES01 z/VSE Security Concepts and News

Ingo Franzki

This session provides an introduction to the security concepts of z/VSE. It includes CICS and batch security, plus connector and network security. It will cover the standard RACROUTE interface, as well as z/VSE security concepts in an open and heterogeneous world where z/VSE may connect to anyone and everyone. It will cover new security features first introduced in z/VSE V3.1.1, plus z/VSE V4.1 and V4.2 enhancements such as new auditing features and the new LDAP signon support.

Level: Intermediate

zES02 z/VSE Security Exploitation with Crypto Hardware

Ingo Franzki

This session will show how VSE security features like Encryption Facility and SSL (Secure Socket Layer) can be exploited. In addition, this session will describe z/VSE cryptographic capabilities, including Crypto Express2 and CP Assist for Cryptographic Function (CPACF). This session also covers z/VSE's support for the new TS1120 tape drive that provides drive based data encryption.

Level: Intermediate

z/OS System Software and Parallel Sysplex

zZP01 GDPS V3.5 Update

David Raften

GDPS is IBM's industry leading multi-site availability and disaster recovery solution. After a quick overview of the different GDPS offerings, get a technical update on recent GDPS functional enhancements. Learn about the added value of FlashCopy® Space Efficient (SE) support and the support for XRC multi-readers. Also focus on how GDPS now also covers heterogeneous (distributed) systems through the new Distributed Cluster Manager (DCM) capability.

Level: Intermediate

zZP02 GDPS Extensions for Heterogeneous Systems and Data

Noshir Dhondy

Most enterprises today have a multi-tiered IT environment where the applications and data are on different platforms, such as System z, System p®, UNIX®, Windows, Linux. This session will describe the various GDPS extensions that are available for customers to manage the data, and/or coordinate the recovery across multiple platforms that their applications may be running on. The session will focus on Distributed Cluster Management (DCM) support for Veritas Cluster Servers – a new function available March 2008 with GDPS V3.5.

Level: Advanced

zZP03 Parallel Sysplex Update

David Raften

With the System z10, IBM announced a new coupling link, Parallel Sysplex InfiniBand (IFB), This presentation describes IFB, as well as the latest updates to CF functions, and z/OS support. This will also describe the latest enhancements to STP - Server Time Protocol.

Level: Intermediate

zZP04 Migration to InfiniBand

David Raften

Parallel Sysplex InfiniBand coupling is IBM's latest coupling link type, available since May, 2008. This presentation describes when IFB links should best be configured, and how to migrate to them.

Level: Intermediate

zZP05 STP Network Time Protocol (NTP) Client Support (part 1 of 2)

Noshir Dhondy

STP is designed to provide the capability for multiple servers to maintain time synchronization with each other and form a Coordinated Timing Network (CTN). The NTP Client Support allows an STP-only Coordinated Timing Network (CTN) to use an NTP Server as an External Time Source (ETS) which addresses the requirement for customers who need time accuracy for the STP-only CTN and the requirement to use a common time reference across heterogeneous platforms. This session will provide a brief overview of STP and planning considerations when implementing an STP-only CTN with NTP client support.

Level: Advanced

zZP06 Server Time Protocol Recovery Considerations (Part 2 of 2)

Noshir Dhondy

This session describes the recovery capabilities of the STP Coordinated Timing Network (CTN). Recovery scenarios such as link failures, server failures and site failures (for a multi-site implementation) will be presented for both a Mixed CTN and an STP-only CTN. Possible user actions to reconfigure the CTN after recovery will also be discussed. It is assumed that you have attended STP NTP Client support or familiar with the functional capabilities of STP prior to attending this session.

Level: Advanced

zZP07 Server Time Protocol (STP) Migration: Experiences at Dillards Inc

John Wallin, Dillards

Did you know that the 9037 model-002 timer was marketed by IBM in late 1996 and has since been withdrawn from IBM marketing? Kind of scary to think that the heart of your sysplex (literally) could be over 12 years old! So now you are looking at the STP alternative and have spent hours reading the books and attending the IBM sessions on STP, does this mean you are ready to take the next step in migrating away from the 9037 timer? In this session, Dillards will focus on the steps and processes they used to migrate their production sysplex from ETR mode (9037) to STP mode. Dillards is running multiple System z9 footprints in a sysplex over multiple sites using DWDM equipment and will discuss the steps involved in planning a migration to STP mode.

Level: Intermediate

zZP08 Testing GDPS/PPRC in an Active / Active Config: UBS Case Study

Serge Fritsch, UBS

UBS has implemented a 2-site configuration running the applications active / active. Business requested a continuous operation in case of one site outage. Therefore, UBS implemented the GDPS/PPRC solution from IBM, and after months of testing, did a real life test in production on July 5, 2008. We will present the solution, how we conducted the test and the results from a Mainframe view.

Level: Intermediate

zZS01 What's New in DFSMShsm

Edward Baker

This will cover the most recent enhancements to DFSMShsm™, including the recently announced enhancements for the upcoming DFSMS R10 and a review of the DFSMShsm R8 and R9 items as well as any recent development APAR activity. If you need to keep up with that fast moving DFSMShsm landscape, this is the session you need to attend.

Level: Intermediate

zZS02 Extracting Data from DFSMShsm for Reporting and Tuning

Edward Baker

Are you struggling to get the kind of information you need out of DFSMShsm that you need to properly manage your DFSMShsm environment? This presentation covers how you can use existing tools to extract data from DFSMShsm and create the kind of reporting you need to effectively and efficiently manage your DFSMShsm environment.

Level: Intermediate

zZS03 DFSMShsm Best Practices

Edward Baker

Installations are constantly on the look out for the best ways to more effectively manage their DFSMShsm environments. The speaker has over 25 years of experience with the DFSMShsm product having spent time in development, service and performing DFSMShsm Health assessments. He will be sharing his latest hints and tips that can help you make your DFSMShsm environment more efficient and help you to avoid some common problems.

Level: Advanced

zZS04 HCM - What's New in z/OS V1.8, V1.9 and V1.10

Juergen Baumann

Hardware Configuration Manager (HCM) is an optional element of z/OS. It provides a graphical user interface to the Hardware Configuration Definition (HCD) and extends the scope of HCD by adding physical data and cable management. It interfaces with other systems management products and tools, like I/O Operations of Tivoli Systems Automation, RMF and the CHPID Mapping Tool. During this session, the speaker will discuss the new functions of HCM in z/OS V1.8, V1.9 and V1.10 such as: - Copy wizards - Report enhancements - Master configuration file - Enhanced named views and a lot more ...

Level: Intermediate

zZS05 HCD - Latest Support for the IBM System z Servers

Juergen Baumann

Hardware Configuration Definition (HCD) is the z/OS base element that is used to define the hardware configuration to the channel subsystem and to the operating system. This session includes the details of the latest functions provided with z/OS V1.9 and V1.10 HCD releases and Small Programming Enhancements (SPEs). - Support of the eServer IBM System z Processors including System z10. Furthermore, the following topis will be presented: - Maintaining a Change Log File - Automatic Activity Logging - Report Enhancements - Multi-user Access.

Level: Intermediate

zZS06 How Software Pricing Considerations May Change Hardware Capacity Planning

Al Sherkow, I/S Management Strategies, Ltd.

This session examines the relationship between Software Capacity Planning and Hardware Capacity Planning. IBM's sub-capacity pricing metrics are based on the rolling four-hour average of each LPAR. While a capacity increase cannot be analyzed or planned based solely on the rolling four-hour average, it may play a role. The use of additional capacity, leading to increased whitespace to handle peaks in capacity demand will also be discussed.

Level: Intermediate

zZS07 Workload License Charges for 2008 - A Consultant's View

Al Sherkow, I/S Management Strategies, Ltd.

By April 2008 the new topics in Workload License Charges include: the z10EC, DB2 Value Units Editions, and "Getting-Started" Sub-Capacity IPLA Pricing for some WebSphere products. IBM continues to evolve Sub-Capacity pricing to reduce the TCO of System z. Topics will be added up to the Expo based on any new announcements in this area. Learn about both these topics so you can consider how to best use them in your site.

Level: Intermediate

zZS08 Save More Money With WLC 2008 Update

Al Sherkow, I/S Management Strategies, Ltd.

Working with various clients and customers throughout the year additional information is learned and understood. This session shares this new information. 2008 will include how zIIP and zAAP engines can reduce the MLC. Examples of the savings are presented as well as determing if additional specialty engines should be added to the environment.

Level: Intermediate

zZS09 What's New in DFSMS 1.10

Scott Drummond

This session will review the new functions/features of the newly announced release - DFSMS 1.10. We'll review new items in the categories - Scalability, Performance, Optimization, Networking and Ease of Use. Additionally, we'll review new storage hardware support provided by DFSMS.

Level: Intermediate

zZS10 Introduction to ICF Catalog Caching

Janet Sun, Mainstar

ICF catalog records are cached in different places according to different rules. The purpose is to improve catalog performance by eliminating I/O to the catalog. The speaker will address monitoring the catalog address space, caching of catalog records and Enhanced Catalog Sharing. The role of a catalog is to locate your data. You can help insure that it does its job efficiently.

Level: Intermediate

zZS11 TPC for Replication for System z Overview

Scott Drummond

This session will introduce TPC for Replication for System z (a new z/OS based product) and how it can be used to manage Metro Global Mirror, Global Mirror, Metro Mirror & FlashCopy for the IBM System Storage DS8000, DS6000, ESS Model 800 and SAN Volume Controller (SVC).

Level: Basic

zZS12 IBM z/OS Storage Management Overview

Scott Drummond

This session will provide an overview of IBM's strategy for managing z/OS storage environments. Details will be provided about each layer of the z/OS Storage Management strategy: Process management, IBM Service Management foundation and Operational management. We'll show how the strategic z/OS storage management product - OMEGAMON XE for Storage fits into the strategy and how the rest of the Tivoli z/OS Storage management portfolio works together to address common z/OS storage tasks and problem resolution. We'll also do a short review of the new Tivoli Service Management Center for z (SMCz).

Level: Intermediate

zZS13 Things I Wish Someone Had Told me About UNIX System Services

Joe Linn, State of Minnesota

Sure, manuals have most of the answers. But there are other things you don't learn until you start working with a product. This session is a user's perspective on working with USS. It will describe the State of Minnesota's installation and maintenance procedures. We'll look at sysplex shared file systems. We will discuss the security issues the auditors found when they inspected our USS environment and how we have been addressing those issues. Feel free to bring your own experiences to discuss.

Level: Intermediate

zZS14 A Reexamination of z/OS Storage Taxonomies

Pat Artis, Performance Associates

Since the inception of OS/MVT in the mid-1960s, volumes have been the cornerstone of storage management. While the introduction of system managed storage broke the bonds of application ownership, volumes are still viewed in terms of units of capacity, work units for storage administration, and as potential units of serialization in the I/O subsystem. Building on the foundation of HyperPAVs, Extended Address Volumes offer a new taxonomy for storage management. The combination of these two technologies offers the opportunity to recast the role of volumes from principal elements to artifacts and to significantly simply both storage administration and performance management. This paper will examine applications of the n-way ported memory model to storage performance and discuss the benefits of casting off the last vestiges of volume centric storage taxonomies.

Level: Advanced

zZS15 PDS - The Swiss Army Knife of Utilities

Tom Conley, Pinnacle Consulting Group

Do you need to replace one string with another in a PDS? Do you need to select certain members of a PDS for a specific operation? Would you like to recover deleted members? Would you like to fix a directory block or space shortage in a PDS without re-allocating the dataset? If you answered 'YES' to any of these questions, this session is for you! Come to this session to learn a how to take advantage of PDS, the best mainframe freeware on the planet! The speaker has used PDS for twenty years and is eager to show you the benefits of using it. Topics covered will include: History of PDS Installing PDS Learning to Use PDS PDSE Support Without Paying IBM! Member Groups - The Real Power of PDS Getting Started PDS Subcommands and MUCH MUCH MORE!!

Level: Intermediate

zZS16 Configuring ISPF For Fun and Profit

Tom Conley, Pinnacle Consulting Group

Do you have a hard time configuring ISPF? Do you want to create the same ISPF look and feel for all your users? Would you like to set up ISPF for better performance? If you answered 'YES' to any of these questions, this session is for you! Come to this session to learn how to configure ISPF for lean and mean operation. Teach ISPF to dance to your tune, for a change! In this session, the speaker will also include an online demonstration and a real-time ISPF configuration session. Topics covered will include: ISPF Configuration History ISRCONFG - The Old Way ISPCCONF - The New Way Set Up the ISPCCONF Dialog Creating and Compiling the Keyword File Converting ISRCONFG Miscellaneous Topics.

Level: Intermediate

zZS17 What's New in System z Software Pricing?

Kay Adams

This session will cover details System z SW Pricing Announcements made in 1Q08: - Getting Started Pricing: New, lower pricing for startup WebSphere applications. - DB2 VUE: One time charge pricing for DB2 in zNALC LPARs supporting qualifying applications.

Level: Intermediate

zZS18 z8xx/z9BC SW Pricing Overview

Kay Adams

The z800/z890/z9BC processors offer the most flexible pricing options in the System z product line. IBM offers several "standalone" pricing options, unique to these processors, that offer very attractive entry level pricing and flexibility. This session will focus on these standalone pricing options.

Topics include:
- Entry Workload License Charge (EWLC)
- zSeries® Entry License Charge (zELC)
- Tiered Entry Workload License Charge (TWLC)
- zNALC (replacing z/OS.e & Divide-a-Box)

In addition, these processors can take advantage of and fully participate in all of the z9EC/z10/Sysplex metrics. Information on z800/z890/z9BC participation in Syplex SW pricing metrics, e.g., PSLC & Workload License Charge, will be included in the z9EC/z10/Sysplex SW Pricing session.

Level: Intermediate

zZS19 z9EC/z10/Sysplex SW Pricing Overview

Kay Adams

This session will focus on the SW Pricing options available to IBM's Series z9EC/z10 processors & System z Sysplexes.

We will discuss Monthly License Charge (MLC) metrics including:
- PSLC (Parallel Sysplex License Charge)
- WLC (Workload License Charge
- ULC (Usage License Charge)
- zNALC (New Application License Charge) plus
- IPLA "OTC" pricing.

Level: Intermediate

zZS20 Extended Address Volume (EAV) - Overview, Usage and Invocation

James Cammarata

This session introduces Extended Address Volume (EAV). EAVs are designed to alleviate addressable disk storage constraints in z/OS installations. This session will provide a summary of the EAV key concepts and how an EAV will be supported in z/OS.

Level: Intermediate

zZS21 Extended Address Volume (EAV) - Migration, Coexistence and Installation

James Cammarata

As a follow-on to the EAV Overview session, this session will describe techniques that can be used to identify changes that may be needed in programs to support EAV. Migration, coexistence, and installation considerations and data migration techniques to an EAV will also be discussed.

Level: Advanced

zZS22 A z/OS Guide to Migrating to a new IBM System z10 EC Server

Greg Daynes

The IBM System z10 Enterprise Class (z10 EC) server is the latest generation of IBM System z servers. It is built on the inherent strengths of the System z platform, and based on the support provided for the System z9 servers. Come hear about how to upgrade to a IBM System z10 EC server! This informative session will describe the software required to run on a new server and any migration or exploitation actions required to use the new server. This session will be of interest to systems programmers and their managers who will upgrade to a IBM System z server.

Level: Intermediate

zZS23 z/OS Maintenance Best Practices

Greg Daynes

Staying current on maintenance can be a key contributor to high availability. The IBM software maintenance strategy is geared to avoiding known critical problems, as well as minimizing new problems encountered. The strategy, and supporting infrastructure, has evolved in recent years. Come to this session to learn more about the best practices for installing z/OS service, with particular focus on why the recommendations are what they are.

Level: Intermediate

zZS24 z/OS Installation and Maintenance Trends and Directions

Greg Daynes

The greying of the system programmer is real. It is critical that we make it easier to install, maintain, and migrate systems. Come to this session to learn what IBM is doing, and planning on doing, to automate and simplify many of the complex tasks manually performed today. The speaker will give you a glimpse of the future, as well as provide a roadmap on how we all will get there.

Level: Intermediate

zZS25 SMP/E 3.5: Simplifying PSP Buckets and Other Goodies

Greg Daynes

Have you ever installed a software product and wanted SMP/E to ensure all service recommended in the product's PSP Bucket was also installed? Have you ever prepared to install new hardware and wanted an easy way to install required software service? Did you ever want an easy way to tell SMP/E to install coexistence service or cross-product dependencies for a new z/OS release? If the answer to any of these questions is yes, then you just might be a system programmer. You should come to this session to hear how SMP/E will be enhanced to help automate and simplify those tasks.

Level: Intermediate

zZS26 How HLASM Can Help You Find/Fix Assembler Language Problems

John Ehrman

IBM's High Level Assembler (HLASM) provides extensive information that can help you identify potential trouble spots, and find and fix problems with your code. Specific programming pitfalls will be mentioned with advice on avoiding them.

This session will describe:
- Useful information in all parts of the Assembler's listing, and how it helps pinpoint potential problems.
- Avoiding problems with USING statements.
- Special considerations for conditional assembly and macros.
- ... and other things that may cause trouble for you (or the assembler).

Level: Intermediate

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zZS27 Program Linking: Object & Load Modules & Program Objects

John Ehrman

What happens after you compile or assemble a program and before it is executed? What is in an object file and an executable module? What kinds of processing are done on them?

This presentation describes:
- How object modules are created and what they contain?
- How object modules are combined to form load modules and program objects?
- What's in loadable modules and how they're structured?
- How modules are loaded into storage?
- The functions and differences among the Link Editor, Binder, Program Fetch, and Program Loader.

Level: Intermediate

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zZS28 Large Systems Boot Camp: Parallel Sysplex Architecture

James R. Fyffe Jr.

IBM announced Parallel Sysplex in the Spring of 1994. Some fourteen years later, this Large System Clustering Technology is still very important. In this session, we will cover the Value of this Architecture, review the Building Blocks, discuss Performance Considerations, and consider Typical Installation Challenges.

Level: Intermediate

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zZS29 JES2 and SDSF Update

John Hutchinson

JES2 and SDSF have been dynamically adding new features and extensions for every recent release of z/OS. Come hear about these enhancements, along with tips on migration, tuning, and implementing the new features.

Level: Intermediate

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zZS30 z/OS Language Environment Storage Report

Mary Astley

How much storage is the application using? Are the default values for the storage run-time options good values for this application? The information to answer these questions is available from the Language Environment storage report. This session will provide an introduction to the Language Environment storage report. Examples of storage reports will be used to discuss the information provided on the report and to "tune" the values specified on the stack and heap run-time options.

Level: Intermediate

zZS31 z/OS 1.10: Migration, Part 1 of 3: Lights!

Marna Walle

This is part one of a three-part session that will be of interest to systems programmers and their managers who are migrating to z/OS 1.10, from either z/OS 1.8 or z/OS V1.9. In part one, the focus is on preparing for your z/OS 1.10 migration. Features that are new, changing and removed in 1.10, along with features that will be removed in the future will be discussed. Ordering and delivery options, as well as coexistence, migration, fall back, and service policies will be covered. System requirements for both software and hardware will be highlighted.

Level: Intermediate

zZS32 z/OS 1.10: Migration, Part 2 of 3: Cameras!

Marna Walle

This is part two of a three-part session that will be of interest to systems programmers and their managers who are migrating to z/OS 1.10. It is strongly recommended that you attend all three of these sessions for a complete migration picture. In part two, specific migration actions for getting to z/OS 1.10 will be covered. Selected elements such as the BCP, C/C++, Communications Server and Distributed File Service (DFS) will be included.

Level: Intermediate

zZS33 z/OS 1.10: Migration, Part 3 of 3: ACTION!

Marna Walle

This is part three of a three-part session that will be of interest to systems programmers and their managers who are migrating to z/OS 1.10. It is strongly recommended that you attend all three of these sessions for a complete migration picture. In part three, more migration actions for selected elements in z/OS 1.10 will be covered. Other selected elements such as DFSMS, Language Environment, and z/OS UNIX System Services will be included. If there is time, some system programmer enhancements introduced in z/OS 1.10 will be covered.

Level: Intermediate

zZS34 The Latest Enhancements to the IBM Health Checker for z/OS

Marna Walle

This session will discuss the recent enhancements to the very popular IBM Health Checker for z/OS, including the new and updated Health Checks added to z/OS 1.10. z/OS 1.10 marks the beginning of using the IBM Health Checker for z/OS infrastructure for z/OS migration purposes. Come see how Health Checker can help you with your z/OS migration. If you want programmatic assistance to help with availability and migration, this session is the place to be!

Level: Intermediate

zZS35 Data Mobility Softek Products for the On-Demand Data Center

Robert Trovinger

Data Mobility suite of Softek products, TDMF z/OS, zDMF and DMCzOS help manage needs of the On-Demand Data Center providing tools necessary to adopt new technology faster, cheaper and easier through proven migration methodology. DMCzOS to Asses, Plan and Manage data migration across LPARs and Sysplexes onto new storage, or implement tiered storage strategies for compliance, business needs, or access. TDMF z/OS and zDMF moves data anytime, anywhere, ON DEMAND at the volume or dataset level, and validates the migration. Consolidate data onto new storage such as EAV or move a single dataset.

Level: Basic

zZS36 (E) JES Update

Ed Jaffe, Phoenix Software International

The speaker, Ed Jaffe from Phoenix Software International, will discuss recent enhancements to the (E) JES product. Topics will include exploitation of new z/OS V1.10 function, significant API enhancements, usability enhancements, etc.

Level: Intermediate

zZS37 z/OS Short Subjects: Highlights From the Bit Bucket

Ed Jaffe, Phoenix Software International

The speaker, Ed Jaffe from Phoenix Software International, will present highlights from his most-recent "Bit Bucket" presentations at the SHARE User's Group - a collection of z/OS-themed short technical subjects."

Level: Advanced

zZS38 What's New in z/OS 1.10

Riaz Ahmad

The newest release of z/OS has been made generally available last week. This session will discuss important new functions and enhancements included in z/OS 1.10 release of IBM's flagship operating system.

Level: Intermediate

zZS39 z/OS CIM Server

Riaz Ahmad

The Common Information Model (CIM) is an open standard data model for describing and accessing systems management data in heterogeneous environments. To enable z/OS for cross platform management, a subset of resources and metrics of z/OS system are mapped into the CIM standard data model. CIM is an exclusive base element of z/OS since z/OS 1.7. Several elements within z/OS and IBM products outside z/OS have begun exploiting this element. This session will describe CIM, how to set it up and how IBM is exploiting it. It is at the heart of z/OS simplification initiative.

Level: Intermediate

zZS40 z/OS SMF Recording with MVS Logger

Riaz Ahmad

The SMF (System Management Facilities) Recording to MVS Logger was introduced in z/OS 1.9 is a facility which allows recording of the SMF data to MVS Logger Logstream. This new facility provides a solution where SMF data can be recorded to the MVS Logger logstream instead of MANx data sets. This session will describe the facility and how to set up SMF to record to the MVS Logger logstream.

Level: Intermediate

zZS41 Integrating Event Management and Automation with NetView

Mike Bonett

IBM Tivoli NetView® for z/OS is more than a network management tool. It integrates with a variety of event sources and event managers to consolidate and automate events across the z/OS and distributed environment. This session provides the latest information on using NetView to exchange, automate, and correlate information with z/OS and distributed applications and event sources. Details of integrating NetView with products such as the Tivoli Enterprise Portal and IBM Tivoli Business Service Manager, and general considerations for enteprise event management integration will also be provided.

Level: Advanced

zZS42 HiperDispatch from a Sysprog Perspective

Bob Rogers

z/OS R10 and PR/SM on the IBM z10 processor cooperate to reduce LPAR overhead and optimize processor cache efficiency. This facility is called Hiperdispatch. Historically, z/OS treated all the general purpose processors in the configuration as a symmetric pool of resource and not attempted throughput optimization through affinity dispatching. The improved cache utilization provided by HiperDispatch can boost throughput, particularly on multi-book systems. This presentation provides a historical context and an overview of the affinity dispatching techniques.

Level: Advanced

zZS43 z/OS Release 10 Sysprog Goody Bag

Bob Rogers

In this session, the speaker will overview some of the 'little goodies' that have been included in the BCP and related elements of z/OS in the most recent release. Larger items are just overviewed and many of the items are too small to have been addressed in a full presentation. This edition of the presentation covers items in z/OS 1.10. Topics will include: Migration Health Checks, 64-bit Common Area, Single System Auto-IPL, Extended Address Volumes, and Hiperdispatch.

Level: Intermediate

zZS44 IBM Tivoli System Automation for z/OS V3.2 - What's New?

Gunnar Freitag

IBM Tivoli System Automation for z/OS (SA z/OS) release 3.2 is now available, with many new and enhanced functions. This session will discuss a subset of the enhancements made to the SA z/OS 3.2 release. Topics discussed include an overview of the SA z/OS 3.2 release, integration with other Tivoli products such as System Automation for Integrated Operations Management (SA IOM) and event-based monitoring using the OMEGAMON XE architecture, as well as functional enhancements in the Customization Dialog and in runtime environment.

Level: Intermediate

zZS45 Alert Escalation with Tivoli System Automation for IOM V2.1

Gunnar Freitag

SA IOM is the new kid in the SA product family. One of the key functions that SA IOM provides is the alert/escalation facility. This session gives an overview what SA IOM is all about and then concentrates an the alert/escalation function. Finally, it shows how SA z/OS exploits the facility offered by SA IOM.

Level: Intermediate

zZS46 REXX Compound Variables vs. the Data Stack

Bill Sheckler

Compound variables are a unique type of variable in REXX. They have some properties that simple variables don't. They can be a bit confusing and difficult to get used to, even for experienced REXX programmers. The data stack is a dynamically allocated buffer in memory, which REXX programs can access to temporarily store data for later retrieval. Often programmers find themselves in a quandary over which to use when both are viable choices. This session describes both the data stack and compound variables, and how to use them. The advantages and disadvantages of each will also be discussed.

Level: Intermediate

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zZS47 REXX PARSE: It Slices! It Dices!....

Bill Sheckler

PARSE is the most powerful keyword instruction in REXX. Using a PARSE template, a REXX programmer can process character or hex strings by words, columns, search strings, or any combination of them all. Most programmers are unaware of the more powerful features of the PARSE instruction, or are intimidated by their apparent complexity. This presentation will step through increasingly complex templates, demonstrating the simple yet elegant structure beneath. By the end of this presentation, you will be able to slice and dice your data like a sushi chef, extracting exactly the data you need.

Level: Intermediate

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zZS48 Using EXECIO and the Stream I/O Functions in REXX

Bill Sheckler

Traditionally, in TSO/E, the EXECIO command has been the only way to read and write data sets from within a REXX program. Now, though, with the freely downloadable REXX Stream I/O Function package from IBM, performing I/O in REXX under TSO/E can be done in much the same way as performing I/O in REXX on other platforms. This session will discuss the EXECIO command, examine the Stream I/O concept, and describe the use of the Stream I/O functions.

Level: Advanced

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zZS49 z/OS, System z Processors, Parallel Sysplex and GDPS: Ask the Experts

Panel of Speakers

A group of speakers will be available to answer your questions about z/OS, System z processor hardware, parallel sysplex and GDPS.

Level: Intermediate

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zZS50 System z HMC Test Drive (Hands On)

Brian Hatfield and Maurice McCullough

Participate in a hands on lab, take the System z HMC for a test drive using the new Tree Style UI. Weather your new to the System z HMC or not. Follow step by step lab instructions or go on your own test drive The HMC will be connected to an actual System z server.

Try your hand using the System z HMC in areas such as: - Setup, assign ID and PWs for local or remote users - Setup HMC for remote access, allow users to choose UI style - Use Classic or Tree style interface to: - Identify activation profile setup for LP activities - Create and edit RESET and IMAGE profile settings.

Level: Intermediate

zZS51 Parallel Sysplex Trainer Environment (PSTE) Hands-on Lab

Brian Hatfield and Maurice McCullough

Are you interested in a sysplex sandbox? Let us show you how the PSTE provides a risk free training environment for System Programmers and Operators. The training environment or "sand box" consists of 3 z/OS images, 2 CFs and canned jobs to simulate production like activity for various exploiters, XCF, DB2, CICS TS and others. Come to this session to understand PSTE installation requirements, detailed content provided and to take it for a test drive. The hands-on lab will provide you the opportunity to do an actual PSTE exercise, use z/Os commands and even review parmlib members.

Level: Intermediate

zZS52 Parallel Sysplex Operations (Hands-on Lab)

Brian Hatfield

This hands-on lab provides you the opportunity to issue z/OS commands to identify the various components of a Sysplex, such as the operating z/OS images, Coupling Facilities, Signaling connectivity, Couple data sets, timer connectivity, active Sysplex policies and much more. You will also be given the opportunity to start/stop XCF signaling paths and relocate a structure between two CFs. The lab exercise provides a guided procedure to audit the Sysplex configuration in a risk free environment.

Level: Basic

zZS53 JZOS Update and Hands-on Lab

Hilon Potter

Have you ever written Java batch programs for z/OS or tried to use BPXBATCH to run a Java application or long running task? JZOS is set of software technologies that have been added to the base z/OS Java JDK. This session will be a short overview of the latest versions of the API's and a hands on lab to test some of them.

Level: Basic

zZS54 HCM - Best Practices using the Diagram

Juergen Baumann

During this session, the participants get acquainted with navigation and filtering techniques for the HCM diagram including named views. The reporting capabilities of HCM are addressed. The Edit I/O Subsystem wizard is demonstrated.

Level: Basic

WLM and z/OS Performance Management

zPW01 WSC Reviews the CPU Activity Report

Bradley Snyder

This session will introduce the user to the different sections of the CPU Activity report. New functions such as hiperdispatch, blocked workload support, group capacity will be covered. Also discussed with be LPAR definitions such as defined capacity, capping, and weight management. This session will also discuss specialty CP reporting and the calculation of MSUs for an LPAR. The session will also spend time on the meaning and calculations for the different types of "busy" reported on the report.

Level: Intermediate

zPW02 z/OS Workload Manager: z/OS V1R10 Update

Dieter Wellerdiek

This session is intended to bring you up to speed about recent enhancements in Workload Management up to the z/OS Release V1R10. You will hear about zAAP/zIIP support, enhancements in WLM Sysplex Routing and Contention Management, new Resource Group Types, Group Capacity Limits, the all new Workstation based policy editor and other new WLM features.

Level: Intermediate

zPW03 WLM Policy Definition: Protecting Work

Dieter Wellerdiek

This session explains some of the more advanced Policy Definition concepts in WLM with a focus on ways to protect work. In particular the concept of resource groups will be explained in detail including the latest enhancements.

Level: Advanced

zPW04 How SRM manages Real Storage on an IBM Mainframe

Dieter Wellerdiek

This session explains real storage management on IBM mainframes done by SRM and RSM. In particular the real storage management on LPARs with up to 4T byte environment will be explained in detail. You also will hear about Large Frame support, High Shared Areas support and other real storage management functions implemented in the last zOS version up to zOS V1R10.

Level: Advanced

zPW05 Statistics for Perf Analysis & Capacity Planning: Part 1

Ray Wicks

This is a two part session which reviews some of the statistical concepts and their psychology used in all of statistics. The process of seeing and describing reality in terms of numbers and graphs is foremost. This session is essential to grasping statistical concepts that one encounters in PA & CP. Emphasis in part one will provide the under pinning of more complex statistical ideas: average, distribution, standard deviation, coefficient of variation.

Level: Advanced

zPW06 Statistics for Perf Analysis & Capacity Planning: Part 2

Ray Wicks

This is a two part session which reviews some of the statistical concepts and their psychology used in all of statistics. The process of seeing and describing reality in terms of numbers and graphs is foremost. This session is essential to grasping statistical concepts that one encounters in PA & CP. In part two, the basic techniques will be expanded to talk about the comparison of measurement results (T-test) and the use of techniques which can be useful in performance analysis and capacity planning, namely regression analysis (a.k.a. trending).

Level: Advanced

zPW07 Monitoring Parallel Sysplex Performance

Glenn Anderson

The performance of a Parallel Sysplex begins with the Coupling Facility. This presentation explores how the Coupling Facility operates in a Parallel sysplex, what the basic metrics are for measuring and monitoring performance, and how this data is reported in the Coupling Facility RMF reports. This presentation lays a foundation for understanding and measuring your Parallel Sysplex and CF performance.

Level: Intermediate

zPW08 IEAOPTxx – A Fresh New Look

Peter Enrico, Enterprise Performance Strategies

Over the last several z/OS releases the IEAOPTxx member of PARMLIB has had additional performance parameters added to it. In addition, new insights to older parameters are being learned as these parameter affect the performance of the systems and workloads differently as new z/OS technologies are introduced. If you have not done so already, the IEAOPTxx member of PARMLIB needs a fresh look to ensure optimal performance of your z/OS systems. During this presentation Peter Enrico will provide a fresh look at the IEAOPTxx member of parmlib. The performance related parameters will be explored, explained, and recommendations for appropriate settings will be made.

Level: Advanced

zPW09 System Logger – Understanding, Measurement and Tuning

Peter Enrico, Enterprise Performance Strategies

The z/OS System Logger provides for single system or multi-system logging. Exploiters of the System Logger no longer have the responsibility to maintain logging functions. Instead the System Logger does it for them. Exploiters of System Logger include Operlog, Syslog, subsystems such as CICS for recovery, and now even SMF data can be maintained by the System Logger. During the presentation Peter Enrico will provide an introduction to the System Logger, its components, and how it is used by its exploiters. Peter will then show how to measure, monitor and tune the System Logger for optimal performance.

Level: Intermediate

zPW10 WLM – Understanding and Using WLM State Samples

Peter Enrico, Enterprise Performance Strategies

WLM wakes up every 0.25 seconds and samples the state of the work in the system to determine who is using and delayed for WLM managed resources. WLM then uses these state samples in a variety of ways including calculating velocities, projecting the affects of changes, and reporting the samples back to performance monitors. These same state samples are also valuable to WLM performance analysts. Peter Enrico will review WLM state sampling and show how you can use these valuable WLM measurements to gain optimal performance.

Level: Advanced

zPW11 zIIPs and zAAPs – Transaction Flows and CPU Times

Peter Enrico, Enterprise Performance Strategies

Today's transactions on z/OS can run on zIIP and zAAP processors, as well as traditional general purpose processors. It is necessary to understand the measurement of the CPU time consumed on these processors at the CEC level, at the WLM service class period level, and at the address space level. But to fully understand the measurements it is important to also understand typical transaction flows that will involve zIIP and zAAP processing since it is these transactions that will consume the CPU service. During this presentation the Peter Enrico will discuss some typical transaction flows involving zIIP and zAAP processors and how the CPU time consumed is accumulated to the address space SMF 30, the processor SMF 70, and the WLM service class period SMF 72.3 records. Additional topics discussed will include dependent and independent enclaves, client SRBs, unmanaged treads, and other key concepts necessary to understand the interpretation of zIIP and zAAP CPU times.

Level: Advanced

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zPW12 WSC z/OS Performance "Hot" Topics

Kathy Walsh

This fast paced, always new, presentation will cover the latest information on recent z/Series, z/OS, and OS/390 performance and capacity planning issues. Recent performance enhancements, gotcha's, and recommendations will be reviewed. Also covered will be the latest information relating to recent performance APARs and WSC performance offerings.

Level: Advanced

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zPW13 The RMF2WTO Secret: From Exceptions to Console Messages

Harald Bender

Have you ever searched for a function in RMF that generates a console message when a certain threshold is exceeded? At first glance, you probably didn't find a smart solution - nevertheless it is there! You can simply run Monitor III Expeption Reports in batch mode and route the exception lines to the console. Once the messages appear on the console, you can take appropriate actions by means of the z/OS Message Processing Facility (MPF) or any other z/OS automation product. This session explains how it works and how you can set up everything in less than 10 minutes!

Level: Advanced

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zPW14 What's new in RMF for z/OS V1.9 and V1.10

Harald Bender

RMF is IBM's strategic product for z/OS performance management. It is the base product to collect performance data of z/OS systems and it provides reporting capabilities for sysplex-wide monitoring, performance analysis and capacity planning. During this session, the speaker will point out how RMF supports you in major areas such as: - System z 10 Exploitation - Detection of XCF Performance Problems - Monitoring of System Locking Activities - Blocked Workload Analysis This session includes the details of the latest functions provided with z/OS V1.9 RMF and z/OS V1.10 RMF.

Level: Intermediate

zPW15 A WLM Policy Self Assessment Checklist

Jim McCoy

Understanding how well your WLM policy is performing is a task every performance person needs to undertake on a routine basis. This activity involves reviewing your policy definitions and analyzing how those definitions compare to the actual performance of your workloads. But you can uncover a number of things just by looking at a policy without even looking at the data. In this session we will do just that. The speaker will highlight many constructs to look for in a policy to insure these functions are understood and if they are conforming to best practices standards.

Level: Intermediate

zPW16 When the Phone Rings... Answer With RMF III

Toni Skrajnar

An end user phones complaining jobs are running slow! Where do you start? RMF III looks at workloads from a delay perspective, and shows delay details at an address space and enclave level. RMF III gives a great advantage in helping to explain why workload is not running as quickly as expected. This session will introduce RMF III from scratch, beginning with where to start when trying to diagnose a performance issue. Also explored are handy tips for going through the RMF III online panels, and answer some of the most commonly asked RMF questions. This is an introductory session.

Level: Basic

zPW17 The XCF Factor: Performance with a Practical Approach

Kathy Walsh

Well defined XCF environments are key to a well running parallel sysplex. XCF is responsible for providing the heartbeat of a z/OS system. XCF signaling becomes more critical as either workloads peak or when recovery actions hit. Will your system fail because some basic XCF configuration guidelines were not followed? This session discusses the latest information for XCF tuning using a very practical approach.

Level: Intermediate

zPW18 zAAPs and zIIPs: Everything New and Old

Kathy Walsh

IBM has introduced new specialty engines such as the zAAP and the zIIP. The performance analyst and the capacity planner need to understand these technologies and how to integrate them into their current environments to ensure they are getting the most from the technology. This session will describe the latest planning information for zIIPs/zAAPs and will discuss their impacts on processor capacity and performance.

Level: Advanced

zPW20 OMEGAMON XE on z/OS HiperDispatch Support

Laurence Hart

The IBM System z10 Enterprise Class incorporates significant advances in processor technology, capacity and performance, including the introduction of 4.4 GHz, quad-core chips, up to 64 processing units and 1.5 terabytes of processor memory. A new feature called HiperDispatch can improve workload throughput by optimizing processor level 2 cache utilization. This session will introduce you to the HiperDispatch technology and describe how IBM Tivoli OMEGAMON® XE on z/OS, which delivered Day 1 support for this feature, can help you better understand the actions of HiperDispatch under z/OS.

Level: Intermediate

zPW21 IBM Tivoli Monitoring and the IBM z/OS Management Console

Mike Bonett

The IBM Tivoli Monitoring (ITM) technology builds on the OMEGAMON architecture and is a platform for integrated availability and performance monitoring for z/OS and distributed environments. The z/OS Management Console is a no-charge product that allows environments new to the technology an easy way to begin using and understanding its benefits. This session provides a technical introduction to IBM Tivoli Monitoring from a z/OS perspective, and will walk through the installation, setup, and usage of the z/OS Management console to show the technology in action.

Level: Basic

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zPW22 Using the Tivoli Data Warehouse for z/OS Performance Data

Mike Bonett

Many are familiar with the OMEGAMON and IBM Tivoli Monitoring products ability to show real time performance data. However, there is also the capability to collect historical data and show it via either the Tivoli Enterprise Portal or custom reports. This session explains the Tivoli Data Warehouse, describes its setup and usage to collect data from OMEGAMON z/OS agents, and methods of creating reports from the collected data.

Level: Intermediate

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zPW23 Much Ado About CPU - Enhanced For System z10

Martin Packer

zSeries®, System z9® and z10 processors have in recent years introduced a number of capabilities of real value to mainframe customers. These capabilities have, however, required changes in the way we think about CPU management. This presentation describes these capabilities and how to evolve your CPU management to take them into account. It is based on the author's experience of evolving his reporting to support these changes.

Level: Intermediate

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zPW24 Memory Matters in 2009

Martin Packer

For z/OS LPARs memory management has changed radically over the years – from both the operating system perspective and that of applications. And the pendulum has swung back and forth between focusing on Real Memory and on Virtual Memory. This presentation discusses managing both Real and Virtual Memory – from the perspectives of both the operating system and the exploiting products. The products include DB2, DFSORT™, CICS®, IMS™, MQ and WebSphere®.

Level: Intermediate

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zPW25 WLM and z/OS Performance: Ask the Experts

Panel of Speakers

A group of speakers will be on hand to answer your questions about WLM and any other z/OS performance and tuning topics.

Level: Intermediate

zPW50 The RMF Monitor III Data Portal

Harald Bender

Did you already know that RMF z/OS performance data can be accessed on demand by simply using a web browser? Without the installation of any client software is is now possible to monitor the performance of your z/OS system instantly - and it's all graphical! The lab will take you through the following topics: - sysplex health check - resources and attributes - single metrics and list valued metrics - define your own personal view - view complete Monitor III reports The lab is suited for beginners as well as for experienced RMF users, who have not exploited the Web Browser GUI so far.

Level: Basic

zPW51 Analyzing XCF Performance with the RMF Spreadsheet Reporter

Harald Bender

Isn't it a drudgery to bring together all the raw XCF data from your z/OS systems and combine it to a sysplex wide view? And even if this piece of work is done - how to start an efficient analysis? With the RMF Spreadsheet Reporter you can create XCF Reports remotely and exploit the features of the new macro Rmfr9xcf.xls: - Analyze your XCF performance on transport-class or path granularity - Reduce the amount of data by means of powerful filtering options In this lab you will learn how easy it is to submit Postprocessor jobs and analyze the data immediately - everything on your PC!

Level: Intermediate

zPW52 Performance Analysis Using Excel Implementation Workshop

Ray Wicks

This session will show the implementation of the Excel examples shown in the Statistics for Performance Analysis and Capacity planning. It introduces the Excel formulae in a step by step fashion. Graphic techniques used in developing models and adding trend lines. This is a hands-on session. Excel spread sheets (.xls) and data (.dat) will be provided. Steps will be provided to: - Load data from flat files; - Use Excel statistical functions to describe the data; - Plot the data; - Use Excel's add-ons for statistics; - Use Excel to perform a T-test; - Use Excel to perform a regression analysis; - Make a prediction using trending. Use the Lab provided PC or bring your own lap top with Excel already installed.

Level: Intermediate

z/OS Transactions and Data Base and Networking

zWT01 z/OS CS -How to Get Policy Agent & Co. Up-and-Running

Alfred B Christensen and Sam Reynolds

Many of the more advanced functions in the z/OS CS, such as IPSec VPNs, Intrusion Detection Services, Policy-based Routing, transparent SSL/TLS processing, etc. are based on a common z/OS Communications Server networking policy infrastructure. To enable this common policy infrastructure you need to configure several components, of which one is the Policy Agent (PAGENT). You will also need to define your networking policies (the rules) by which the policy infrastructure will process your network traffic - these policies are most easily defined using the z/OS CS Configuration Assistant.

Level: Intermediate

zWT02 Extending Green Screens to the Web and SOA using HATS

Alisa Morse

Do you have green screens? Rational Host Access Transformation Services (HATS) can be used to enhance the user experience for green screen applications. HATS gives you the tools needed to extend your 3270 and 5250 applications to the Web, to a portlet, to a rich client, to browsers on mobile devices, or as Web services quickly, easily, and with low risk. This session will also review key enhancements and new features available with the new version (v7.1) of Rational HATS, released 04/08, including mobile browser support and the Visual Macro Editor (VME) technology preview.

Level: Basic

zWT03 Discovering and Dashboarding Your z/OS Applications

Greg Hess

The z/OS environment is getting more complex, often having z/OS and one or more subsystems required to support a Business Service. These business services often originate on a distributed platform and then need to navigate through an enterprise environment. This navigation can be complex, and difficult to map. By using top-down analysis it is possible to visualize (map) and manage any business service application dependencies.

Level: Intermediate

zWT04 WebSphere z/OS V7 - WSC Experiences

Don Bagwell

The Washington Systems Center was involved with WebSphere for z/OS V7 from early in the development cycle. In this session we will offer a brief overview of the product and give insights into our experiences and impressions.

Level: Intermediate

zWT05 WSC Guidelines to a Healthy WebSphere App Server

John Hutchinson

This session will cover the various pieces of advice, hints-and-tips and other 'best practices' related to configuring for performance, writing efficient application code, and understanding common issues with distributed applications when brought to the z/OS platform. The presentation handout contains over 100 hyperlinks to technical documents on the web in an organized form.

Level: Advanced

zWT06 WebSphere Process Server Configuration on z/OS

Steve Matulevich and John Hutchinson

This session will show you how to configure WebSphere Process Server (WPS) infrastructure Version 6.1 on z/OS. This is in support of Business Process Applications using SOA (Service Oriented Architecture) and ESB (Enterprise Service Bus) on WebSphere Application Server Version 6.1 on z/OS. We will also discuss troubleshooting techniques to find and correct problems that may arise in this environment.

Level: Intermediate

zWT07 Web Browser Interfaces to CICS Applications

Dennis Weiand

Did you ever wish you could interact with your CICS applications from a Web browser like Internet Explorer or Firefox? CICS supports Web browser interfaces to applications with an easy to use API, plus CICS can deliver and secure the associated graphics and other files needed to display Web pages. This presentation will discuss the terminology you need when working with a Web browser, the flow of data to and from a Web browser, and how to interact with a Web browser from CICS. The CICS API. CICS resource definitions, state management, security, and other related issues will also be discussed.

Level: Intermediate

zWT08 Using Java as a CICS Application Programming Language

Dennis Weiand

Java applications running under CICS? Of course! But you will need to have an understanding of the JCICS API to interact with CICS from your Java program. This session provides an explanation of JCICS terminology and the capabilities of the JCICS API. This session also relates familiar procedural concepts to the equivalent in Java. Who should attend? Those familiar with CICS procedural application coding that will be writing programs or supporting programmers who will be writing CICS Java applications.

Level: Advanced

zWT09 What's new WMQ V7 for z/OS

Paul S. Dennis

Come to this session to learn about IBM WebSphere® MQ for z/OS V7, which delivers a wealth of function to give you easier Web connectivity, out-of-the-box support for Web 2.0, more flexible programming options and enhanced performance.

Level: Intermediate

zWT10 WMQ Shared Queue Past, Present and Future

Paul S Dennis

This session will define shared queues, how channels can be configured with shared queues, and how applications can exploit shared queues to achieve high availability and scalability. This session is intended for those who may have little or limited knowledge of shared queues and require a basic understanding of what shared queues provide in the WebSphere for z/OS environment.

Level: Intermediate

zWT11 DB2 V9 for z/OS Technical Overview

Maryela Weihrauch

DB2 9 for z/OS became generally available in March 2007. This session will give an overview about the strategic themes and major technical features delivered with DB2 9 for z/OS.

Level: Intermediate

zWT12 DB2 High Insert Workload - A Study Using DB2 V9 for z/OS

Maryela Weihrauch

The demand for higher insert rates into databases is ever increasing as more and more data is kept managed in databases. DB2 z/OS V9 contains a number of new features that especially target high insert workloads. Maryela shares her experience in tuning a high insert workload implemented in Java and shows how DB2 z/OS V9 features helped her achieve the goal.

Level: Advanced

zWT13 Leveraging IMS Assets with SOA

Deepak Kohli

SOA has revolutionized the software industry. Is it possible to SOA enable IMS applications? Are IMS customers actually doing that? If so, what is the cost benefit? How long does it take to service enable IMS assets? What options are available to SOA enable IMS? Does IMS actually deal with newer technologies like SOAP, XML etc.? What is the new role of traditional IMS professional like DBAs in this new and ever changing technologies? If you've ever pondered these question while doing dishes on a sunny Sunday afternoon, then this session is for you. With IMS applications containing the mission critical data and logic that run most of todays Fortune 100 companies and various government organizations, customers are now ever more convinced in the old maxim: Good programmers write good code. Great programmers reuse other people's code. In this session learn how you can leverage/reuse IMS assets with SOA. Get the details on the IMS SOA integration suite and see how customers in the manufacturing, Banking, Insurance and Aviation industries are excited about the new developments in IMS.

Level: Intermediate

zWT14 WebSphere Application Server for z/OS Update

Hilon Potter

This session will review the features and functions available in the new version of WebSphere Application Server for z/OS. The discussion will include functional as well as operational enhancements. In addition a a brief description of the current WebSphere suite of products for z/OS will be included.

Level: Intermediate

zWT15 WebSphere Application Server for z/OS Implementation

Hugh P Watson Jr

This session will discuss the implementation steps required to setup the WebSphere Application Server for z/OS V6.1.

Level: Intermediate

zWT16 Introduction to the WebSphere Process Server

Hugh P Watson Jr

This session will introduce the WebSphere Process Server.

Level: Basic

zWT17 Rolling WebSphere z/OS Service Throughout a Multi-Node Cell

John Cowel

Rolling WebSphere service throughout a multi-node cell on a node by node basis can be tricky. Backing out maintenance, if necessary, may be even more problematic and time consuming. To handle these tasks you need a configuration that is conducive to this process, and sound procedures in place. This session will walk you through the configuration requirements to roll WebSphere z/OS maintenance on a node by node basis, and show you an easy way to quickly back out that maintenance if problems are encountered. This is valid for WebSphere V6 and higher, and also for "Stack" features - WESB, WPS.

Level: Advanced

zWT18 Compton's Laws of e-Business

Leigh Compton

Everyone is familiar with Murphy's original law, "If anything can go wrong, it will" and its many corollaries and related laws. This session will introduce Compton's Laws of e-Business and explain how these impact CICS workloads. The speaker will discuss high-availability configurations for CICS systems and show how these provide optimal scalability and fail-over protections for the applications.

Level: Intermediate

zWT19 WebSphere Application Server for z/OS Avoiding the "Gotchas"

Mike Loos

Installing and configuring WebSphere Application Server for z/OS requires familiarity with many areas of the z/OS environment. The speaker has helped install and configure WebSphere at dozens of installations and has been "Gotchad" more than a few times. Many of these have been repeated often enough that they now seem worth avoiding. This presentation is from the perspective of the z/OS systems programmer. But the topic should also interest folks specializing in security, z/OS USS administration, or any other area involved with the implementation of WebSphere on z/OS.

Level: Advanced

zWT20 Automating WebSphere App Server Admin with Scripting

Mike Loos

Starting with a quick introduction to the JYTHON scripting language and the use of JYTHON in conjunction with WSADMIN commands, several commonly executed administrative tasks will be demonstrated using the WebSphere adminconsole. Then the WSADMIN scripting equivalent will be introduced and explained. The targeted audience for this session is z/OS system programmers responsible for WebSphere on z/OS, WebSphere system administrators, and application developers responsible for scripting.

Level: Intermediate

zWT21 z/OS V1R10 Communications Server - Technical Update

Alfred Christensen and Sam Reynolds

This session will present the latest and greatest capabilities of the Communications Server on z/OS. The session will focus on enhancements provided in the z/OS CS V1R10 release, allowing attendees to start planning for use of those new functions. Among the Communications Server for z/OS V1R10 new functions that will be discussed are: a new z/OS Defense Manager, a TN3270 Name Server for sysplex-wide LU name management, z/OS FTP Server security improvements, TCP/IP subplex support for LBA and ADNR, performance enhancements, EE/SNA enhancements, Configuration Assistant enhancements, and more!

Level: Intermediate

zWT22 Getting Started with Enterprise Extender on z/OS

Sam Reynolds

Enterprise Extender (EE) is a valuable technology that allows you to preserve your SNA application investment while exploiting the advantages of a consolidated IP backbone. EE allows you to utilize an IP network for the transport of SNA traffic, including SNA traffic between different companies (SNI). In this session we will take a look at the basic concepts and advantages of EE, and examine the basic steps for defining EE in a z/OS network.

Level: Intermediate

zWT23 z/OS Communications Server Enterprise Extender Hints & Tips

Sam Reynolds

Is SNA dead or alive? Has anybody actually implemented EE? If so, what were the inhibitors and what tips could help you make a smoother transition to EE? In this discussion, we will look at hints and tips for updating your SNA network using the SNA/IP integration technology known as Enterprise Extender.

Level: Intermediate

zWT24 IBM JVM SDKs and System z Update

Theresa Tai

This session will highlight the best of IBM SDK V6 functional capabilities. We will focus on understanding the major building blocks of IBM JVM on components such as Just In Time Compiler (JIT), Garbage Collection (GC), Java heap and memory management, how they evolved over time along with the history of performance improvements. Come and learn about IBM's strategic initiatives of Java SE and EE standards-based technologies for Enterprise application deployment on System z and IBM's commitment to delivering market leadership JVM, the foundation of WebSphere Application Server platforms.

Level: Intermediate

Linux on System z

Linux on System z Basic Sessions (zLBxx)

zLB01 Linux on System z Planning: Where to Begin?

John Schnitzler

This short session will address some of the basic planning topics that you should look at when considering Linux on System z. This session will be used to spark interest in other in-depth presentations being given during this conference. Note: This session will start at 8:00 AM.

Level: Basic

zLB02 Linux System Management for Mainframe Systems Programmers - Part 1 of 2

Mark Post, Novell

More and more, mainframe systems programmers are being asked to install and manage Linux on their mainframes. They have years of experience in installing and managing 'traditional' IBM mainframe operating systems such as MVS and VM, but they don't know where to start with Linux. Installation is covered by other sessions, so this one will concentrate instead on 'translating' typical system management tasks to the mainframe Linux environment by comparing and contrasting the familiar with the new.

Level: Basic

zLB03 Linux System Management for Mainframe Systems Programmers - Part 2 of 2

Mark Post, Novell

This is a continuation of Session zLB02.

Level: Basic

zLB04 An Introduction to Linux on System z Device Drivers

Hans-Joachim Picht

This talk is designed for experienced Linux administrators which will face Linux on System z in the future, or are new to the mainframe in general. Containing examples from the x86 world, people with a PC background will learn how to conduct the same administrative tasks on a Linux on System z based system related to the following components: cpu, memory, network, tapes and hard disks.

Level: Basic

zLB05 SCSI over FCP for Linux on System z - Introduction

Dr. Holger Smolinski

The Linux zfcp device driver adds support for Fibre Channel attached SCSI devices to Linux on System z. The Fibre Channel protocol is an open, standard-based alternative and supplement to existing ESCON or FICON connections and becomes more and more important. The intention of this presentation is to give an introduction to the SCSI world on a System z mainframe. Main topics are hardware and software requirements, configuration, performance considerations, IPL and dump. Other points will be FCP support in recent Linux distributions, application areas and FCP troubleshooting basics.

Level: Basic

zLB06 Crypto Support for Linux on System z - Introduction

Hans-Joachim Picht

For crypto solutions on System z a lot of functionality is implemented by the Hardware and by Linux on System z. An overview about all the supported crypto solutions by Linux on System z will be given in this presentation. The introduction contains a general overview including some definitions about specific crypto functions. The first chapter shows the support offered by the System z Hardware (crypto cards and CPACF). The next chapter will show the different functions of the crypto support given by Linux on System z. Finally, we will finish showing some performance data. Note: This session will start at 8:00 AM.

Level: Basic

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zLB51 Lab: Linux for Beginners Hands-on-Lab - Part 1 of 3

Neale Ferguson, Sine Nomine Associates

What is this thing called Linux? How is it organized? What are its key technologies? How do you start using it? These lab sessions are designed to allow you to answer these questions. If you are a Linux and UNIX neophyte who would like to start down the Linux path, then plan on attending these sessions. If you are familiar with UNIX already then these labs are probably not for you. Note: Part 1 will start at 8:00 AM.

Level: Basic

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zLB52 Lab: Linux for Beginners Hands-on-Lab - Part 2 of 3

Neale Ferguson, Sine Nomine Associates

This is a continuation of Session zLB51.

Level: Basic

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zLB53 Lab: Linux for Beginners Hands-on-Lab - Part 3 of 3

Neale Ferguson, Sine Nomine Associates

This is a continuation of Session zLB52.

Level: Basic

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zLB54 Lab: Basic Linux Scripting Hands-on-Lab - Part 1 of 2

Neale Ferguson, Sine Nomine Associates

You've been told that Linux on System z is a good thing and that you need to 'make it happen.' Great.

So how do I do this:

```
//REPORT JOB 51315  NEALE,  MSGLEVEL=(1,1)
//RPT EXEC PGM=REPORT,PARM='Report Title'
//SYSLIB DD DSN=HOME.NEALE,DISP=SHR
//SYSPRINT DD SYSOUT=*
//IN1 DD DSN=TMP.PROD.MON.IN001,DISP=SHR
//IN2 DD DSN=TMP.PROD.MON.IN002,DISP=SHR
//IN3 DD DSN=TMP.PROD.MON.IN003,DISP=SHR
//OUT DD DSN=TMP.PROD.MON.NEALE(OUT),DISP=SHR       with Linux?
```

There's no such thing as JCL so how do I control my jobs? That's where scripting comes in. While in concept CLISTs are similar to scripting in Linux the analogy doesn't stretch very far. You have to face facts: I need to learn bash, ksh, or csh. 'Where do I start?' you ask. This hands-on lab attempts to serve as your starting point as you are introduced to the basics of bash scripts and learn how to achieve what JCL used to do for you.

Level: Basic

zLB55 Lab: Basic Linux Scripting Hands-on-Lab - Part 2 of 2

Neale Ferguson, Sine Nomine Associates

This lab (part 2 of session zLB54) will provide a hands-on introduction to basic shell scripting on the Linux operating system. The skills learned will be useful for any Linux system, whether on the mainframe or otherwise.

Level: Basic

Linux on System z General Interest Sessions (zLGxx)

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zLG01 Linux on System z - What's New?

Hans-Joachim Picht

New interesting features like collaborative memory management for z/VM, automatic dump on panic, reipl from an alternate boot device, or crypto support for tapes have recently been developed for Linux on System z. Those functions are available exclusively on System z, providing additional value for customers on that architecture. This presentation gives an overview on those features, shows in which distributions they are integrated and gives an outlook on future directions of Linux on System z development.

Level: Intermediate

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zLG02 Understanding the Technology Advantages of Running Linux on z/VM

Reed Mullen

The IBM z/VM hypervisor is a key component in most System z Linux success stories. This is because z/VM offers an extensive set of virtualization technologies that enable users to enjoy significant cost savings when deploying Linux-based solutions on the mainframe. This presentation will explain in some detail the various virtualization capabilities in z/VM that enable users to achieve these cost savings and simplify the operational tasks needed to host a large-scale virtual server environment. For additional sessions of this theme, please check the "V" (z/VM) sessions.

Level: Basic

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zLG03 Problem Determination with Linux on System z - Part 1 of 2 Most Frequently Seen Customer Problems and What to do, if Yours is Not Among Them

Dr. Holger Smolinski

This presentation is about problem resolution in Linux on System z running with or without z/VM. A selection of frequent customer problems and their solution is shown. We demonstrate usage of debugging tools to collect important system data and analyze real life problems. In addition we will explain, how you can check the health state of your system using these documents before or after a problem occurs. Part 1 focuses on the "First Aid Kit" and Part 2 shows the different customer problems and solutions. Note: This session is at 8:00 AM on Thursday.

Level: Intermediate

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zLG04 Problem Determination with Linux on System z - Part 2 of 2 Most Frequently Seen Customer Problems and What to do, if Yours is Not Among Them

Dr. Holger Smolinski

This presentation is about problem resolution in Linux on System z running with or without z/VM. A selection of frequent customer problems and their solution is shown. We demonstrate usage of debugging tools to collect important system data and analyze real life problems. In addition we explain, how you can check the health state of your system using these documents before or after a problem occurs. Part 1 showed the "First Aid Kit" and Part 2 discusses the different customer problems and solutions.

Level: Intermediate

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zLG05 OpenSolaris on System z

Neale Ferguson, Sine Nomine Associates

What was involved in getting Solaris running on System z? What does it take to make a new operating system available on System z? Come hear about the adventures in coding involved in bringing another popular OS to the System z platform.

Level: Intermediate

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zLG06 System z and Cell, an Innovative High Performance Consolidation & Compute Opportunity

Bill Reeder

This session will highlight the architecture of the IBM Cell BE engine and highlight many of the capabilities of the business and technical possibilities that are being explored with these two technologies. Inter-operability is with both Legacy z/OS applications as well as System z Linux applications. Come hear about the processor responsible for breaking the Petaflop barrier.

Level: Intermediate

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zLG07 IBM Transformation: Major IT Consolidation Initiative for Project Big Green

Bill Reeder

As a piece of IBM's Project Big Green, IBM has announced a global shift to Linux on the mainframe. This session focuses on an update to IBM's consolidation program moving thousands of distributed application architecture servers to about 30 System z servers. Listen to how IBM's efforts will save 80% on energy consumption, while realizing significant savings in labor and software costs while dramatically accelerating speed to market, increasing operational availability while running on a world class secure environment.

Level: Intermediate

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zLG08 NPIV- FCP Channel Virtualization in a Linux Environment

Dr. Holger Smolinski

NPIV, N_Port ID Virtualization, - FCP Channel Virtualization enables System z customers to share an FCP channel with a unique SAN identity to all Linux instances. There will be a short overview about the current development and the related changes introduced with the new features and capabilities. Note: This session will start at 8:00 AM.

Level: Intermediate

Linux on System z Installation Sessions (zLIxx)

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zLI01 Making z/VM and Linux Guests Production Ready.. Best Practices

Jon vonWolfersdorf

This session covers installation and configuration "Best Practices" for z/VM and Linux running as a guest of VM. It will highlight common misunderstandings and recommendations in the areas of cpu, memory and I/O when running in this environment.

Level: Intermediate

zLI02 Using the SLES10 Starter System to Jumpstart your Linux for System z Proof of Concept

Mark Post, Novell

Historically, one of the biggest hurdles to implementing Linux on the mainframe has been gaining network access to the installation media from the mainframe. Whether you've been frustrated by network firewall rules, or difficulties coordinating access to a separate Linux or UNIX system elsewhere on your site's network, the starter system lets you get your evaluation of SUSE Linux Enterprise Server for System z going faster and easier. Come see how the starter system is created, and how you can download it and install it, using only native z/VM tools. Note: This session will start at 8:00 AM.

Level: Intermediate

zLI51 Lab: Linux on System z Installation Hands-On-Lab – Part 1 of 3

Richard Lewis and Jon vonWolfersdorf

Linux for System z has generated a lot of excitement among System z customers. However, for many this is a new and strange environment. This workshop will provide an opportunity to install and configure Linux for System z in a z/VM virtual machine. The hands on portion of this workshop will be self paced, and result in a Linux for System z system running Apache, Samba, DNS (BIND), a firewall and the KDE desktop. The goal is to equip each attendee with the skills required to return home and install Linux for System z using the distributions from SUSE, Red Hat, or the binary objects available for download from the Marist College Web site. NEW: Recently added lab exercises will allow attendees to install Red Hat Enterprise Linux 5 or Novell/SUSE SLES 10 to an FCP attached SCSI device. They can also then create two additional, multipath FCP attached SCSI devices and join them in a Logical Volume. This lab will be continued with Parts 2 and 3.

Level: Basic

zLI52 Lab: Linux on System z Installation Hands-On-Lab – Part 2 of 3

Richard Lewis and Jon vonWolfersdorf

This is a continuation of Session zLI51.

Level: Basic

zLI53 Lab: Linux on System z Installation Hands-On-Lab – Part 3 of 3

Richard Lewis and Jon vonWolfersdorf

This is a continuation of Session zLI52.

Level: Basic

Linux on System z Networking Sessions (zLNxx)

zLN01 Networking with Linux on System z

Hans-Joachim Picht

Linux on System z offers a lot of possibilities to get your system connected to a network. This presentation will give an overview of all the network devices supported by Linux on System z. Examples will show how to set up networking on your system using OSA, z/VM GuestLAN, z/VM VSWITCH, and HiperSockets. You will learn how to configure a network device manually and how to configure a network device automatically in RedHat and Novell distributions. The presentation will end with more advanced network topics such as Channel Bonding.

Level: Intermediate

zLN02 Communication Controller for Linux (CCL) - Technical Update

Alfred B Christensen

The Communication Controller for Linux (CCL) on System z enables you to modernize the traditional SNA subarea access environment that typically consist of ESCON channel-attached and Token-ring LAN-attached IBM 3745s running NCP and optionally NPSI. CCL allows you to continue using selected NCP and NPSI functions, but at the same time migrate away from ESCON channels, Token-ring hardware, and IBM 3745 hardware. CCL is a program product that emulates the IBM 3745 hardware so that the NCP can run on top of CCL in a Linux environment on the System z9 hardware.

Level: Intermediate

Linux on System z Applications and Application Development Sessions (zLAxx)

zLA01 Memory Sizing for WebSphere Applications on System z Linux

Steve Wehr

Getting the best TCO from System z Linux requires paying attention to the memory used by applications and z/VM Linux guests. This presentation gives a step-by-step approach to help you easily and accurately size the memory needed by large applications such as WebSphere, to help you achieve your TCO goal.

Level: Intermediate

zLA02 Efficient Configurations for System z Linux

Steve Wehr

How many Linux virtual servers you create and how many applications you put on each can affect how much Memory and CPU you will need to run these applications. This presentation compares various configurations to show you how you can architect your Linux virtual servers to get the most efficient use of memory and CPU in a z/VM LPAR. Pre-req: Memory Sizing for WebSphere Applications on System z Linux - Session zLA01.

Level: Advanced

zLA03 WebSphere Portal on Linux System z with High Availability

Theresa Tai

System z customer growing interests in WebSphere Portal capabilities to provide a flexible and dynamic front end to their web applications. This session will focus on the key elements in designing and implementing an enterprise-grade highly available Portal infrastructure for Linux on System z. The discussions include Portal V6.1 highlighted features, planning, installation, deployment and operational aspects of Portal. We'll also discuss the value of High Availability architecture principles, concepts, decisions and trade-offs that applies to a Portal production environment.

Level: Intermediate

zLA04 Oracle Features for "Mainframers"

Denny Dutcavich

Did you ever have one of your Oracle DBAs or System Admins approach you to discuss an Oracle project for Linux on System z and talk in a bunch of acronyms like RMAN, ASM, TTS, TDB, RAC, and CRS, or even in terms such as Data Pumps? This session will provide information on Oracle features and utilities that are involved in most PoCs for Oracle on Linux for System z, including file systems (ASM), backup and recovery (RMAN), how to move data (RMAN and TTS), some info on HA and more. Come to this session to learn about Oracle on Linux for System z, and its terminology.

Level: Basic

zLA05 Consolidating Oracle Products to Linux on System z

Denny Dutcavich

For many organizations server sprawl is no longer sustainable for reasons such as cost, lack of data center space, the growing lack of power, and the green agenda. As a practical solution, this session will address consolidation Oracle products to Linux on System z. The focus will be on what to look for in a database and what needs to be considered for the consolidation process.

Level: Intermediate

zLA06 What's The Buzz About Ruby on Rails

Theresa Tai

This session will introduce the new emerging technology Ruby On Rails (open source project) for database-driven web development. We will highlight concepts that are unique to the Ruby programming language, Rails the application framework and how it differs from the Java framework. We'll talk about Ruby installation, understanding the components and development tooling (i.e. Eclipse with Ruby IDE) for your web 2.0 application. We'll also cover how to get started with introductory tutorials and where to download the IBM free resources such as the starter toolkit on DB2 for Rails. There will be a demo on the Interactive Ruby shell (irb) and some features of Ruby.

Level: Basic

zLA07 IBM Business Intelligence and Data Warehousing on System z

Karen Durward

This session will introduce you to the latest trends in business intelligence and the growing role of IBM's Linux on System z solutions in supporting this critical business initiative. Traditional data warehousing focuses on after-the-fact analysis driven by query and reporting tools. Multidimensional analysis and other data mining techniques took BI into a world of discovery. We have entered another period of expansion with the marriage of BI with transactional data to drive business optimization. Compounding the problem is a changing landscape with shrinking batch windows, exploding volumes of data and information coming from more and more sources. This session explores the IBM technologies that are making a difference. You will be introduced to change data capture (CDC), extract-transform-load (ETL), replication and data federation technologies that drive data warehouse content and their synergy with business intelligence tools.

Level: Basic

zLA08 More Informed, Faster and More Aligned Business Decisions with Cognos 8 BI for Linux on System z

Amanda Bright

IBM's Information on Demand strategy is helping customers gain access to the right information, when they need it, along with the key business insights needed to address and respond to changing market demands. This session will introduce IBM Cognos 8 BI for Linux on System z, which allows customers to easily analyze and report on hundred of millions of transactions directly on the mainframe - ensuring that everyone across the organization can quickly identify and respond to critical business trends.

Level: Basic

zLA09 Information Server for Linux on System z

Karen Durward

The IBM Information Server platform provides core information integration capabilities that are essential to data warehousing and business intelligence, as well as SOA, master data management, and data quality initiatives. Launched on Linux on System z in December 2007, these technologies are changing the role of the mainframe and helping organizations deliver accurate, complete information in context to fundamentally improve their business processes. This session will give a brief description and the availability of the Information Server product line on Linux on System z. It will cover the architecture and its components with an emphasis on meta data management, DataStage and QualityStage for Linux on System z.

Level: Basic

zLA12 Linux on System z is Ready for Web 2.0

Wolfgang Taphorn

Web 2.0 is changing significantly the way individuals and enterprises are interacting on the web. It is regarded as a completely new way to collaborate and leverage information. Web 2.0 enables intuitive access to customer data, higher customer interaction, improved decision making and faster response to emerging situations. Successful Web 2.0 applications require a solid infrastructure for scalability, high availability and security. Many popular Web 2.0 applications also run on Linux. Typically, many Web 2.0 applications - both off the shelf and those developed in house - use open source components like Apache, PHP, Perl and Dojo (Ajax). System z - with its support for Linux - offers a premium platform to host Web 2.0 applications This session will provide an overview of wide spread open source Web 2.0 technologies available on Linux for System z and show how your projects can combine the advantages of Web 2.0 when running on Linux for System z to benefit your business. This session will provide an overview of wide spread open source Web 2.0 technologies available on Linux for System z and show how your projects can combine the advantages of Web 2.0 when running on Linux for System z to benefit your business.

Level: Intermediate

Linux on System z Performance and Systems Management Sessions (zLPxx)

zLP01 Linux on System z Performance Hints and Tips

Klaus Bergmann

This session is focused on tuning recommendations for Linux on System z. It covers recommendations on the Linux kernel, system setup, the gcc compiler, Java, efficient use of IBM hardware, including disk I/O, networking and cryptography, and Linux performance tools. It is based on frequently asked questions about Linux on System z performance.

Level: Intermediate

zLP02 Linux on System z Performance Update

Klaus Bergmann

This presentation gives a short introduction into general aspects of System z hardware. It then focuses on performance data obtained with Linux on System z measurements. The results are discussed showing the performance exploitation of IBM hardware. The topics are: z10, disk I/O, cryptographic support, networking, compiler, Java, and CPU hotplug.

Level: Intermediate

zLP03 Performance Experience with Databases on Linux for System z

Klaus Bergmann

The presentation provides experiences from performance tests with Informix, DB2 and Oracle databases on Linux on System z, exploiting different disk I/O options in Linux, considerations for using storage servers, and hints and tips for database setup parameters. Note: This session starts at 8:00 AM.

Level: Intermediate

zLP04 Sharing and Maintaining Linux Under z/VM

Michael MacIsaac

Large operating systems leverage shared file structures to get the benefits of reduced disk space, simplified maintenance and simplified systems management. The Redpaper SG24-4322, "Sharing and maintaining Linux under z/VM", written in conjunction with Nationwide Insurance, describes how to create a Linux solution with shared file systems under z/VM. It also describes a maintenance system where the same Linux image exists on a test, maintenance and gold virtual servers. It is based on z/VM 5.3 and SLES 10.

Level: Intermediate

zLP05 Systems Management of Linux Under z/VM and LPAR

Michael MacIsaac

This presentation will give an overview of systems management solutions considering the open source, vendor-supplied and 'roll-your-own' approaches. It will classify products by the aspects of systems that they address such as network management, overall systems management, patch management, provisioning management, etc. A broad survey of z/VM and Linux systems management will be presented.

Level: Intermediate

zLP06 The IBM Tivoli Service Management Center for System z

Raymond Sun

The IBM Tivoli Service Management Center for System z is a set of integrated solutions that enable System z as a highly reliable hub for efficient management of business and IT services that span the enterprise, bringing service management and process automation to System z. In this session, we'll examine industry pressures and inhibitors, how service management and process automation can address these issues, and look at specific scenarios showing how Tivoli Service Management Center for System z can deliver service management and process automation capabilities, through integrated Tivoli solutions.

Level: Intermediate

zLP07 Managing Red Hat Enterprise Linux Across Your enterprise

Shawn Wells, Red Hat and Brad Hinson, Red Hat

This session will outline how you can update, manage, provision and monitor your RHEL guests with Red Hat Network. We'll step through security patching, configuration management, and show how to deploy your own applications to your enterprise. Note: This session will start at 8:00 AM.

Level: Intermediate

zLP08 Monitoring Linux Guests and Processes with Linux Tools

Hans-Joachim Picht

This session provides a technical introduction in Linux performance monitoring features. It will cover to how Linux measures process and interrupt times. These measurements have changed in newer Linux versions. The System z CPU timer is used instead of the Linux timer tick, which drastically improves accuracy and reliability. The second part of this session deals with Linux kernel modules for accessing z/VM and LPAR performance data - monreader, appldata, monwriter and s390_hypfs. Note: This session will start at 8:00 AM.

Level: Advanced

zLP09 Understanding Linux Memory Management

Dr. Holger Smolinski

This talk will give an overview of the memory management subsystem of the Linux kernel. We will explore what goes on under the covers when applications use features like virtual memory, memory-mapped files, or shared memory, and discuss what strategies the Linux kernel employs to make best use of the physical memory available to it. From a system administrator's perspective, we will look into the various interfaces Linux provides to retrieve information about the current state of the memory management subsystem, as well as what tunable parameters can be used to influence its behavior. Finally, we will examine the special case of running a Linux kernel inside a virtualized environment (as a z/VM guest): what can be done to avoid unnecessary memory management overhead in this situation and ensure optimal performance of the whole system.

Level: Advanced

zLP10 High Availability Applications Using Disk Mirroring

Dr. Holger Smolinski

RAID 1 mirrored disks are usually used to prevent you from data loss in case of a disastrous error in a storage controller. In this presentation we will show how even transient failures of storage controllers can cause application outages. We will present a solution which augments RAID1 to also ensure application availability.

The solution for RHEL Version 4 and 5 for System z provides:
- A SW disk mirroring solution (like RAID1) which does not block I/O on transient outages of storage devices.
- Integration into the distribution to enables mirroring of root and swap file systems.
- Ability to IPL/Boot with partially available disk configurations
- Enhanced recovery support offering selective recovery for transient failures.

We will also discuss how customers using SUSE SLES 10 can solve the same problem.

Level: Intermediate

zLP11 Saving Real Storage with Execute in Place and DCSS on Linux for System z

Mark Post, Novell

Significant savings in real storage can be gained by sharing heavily used parts of file systems between multiple Linux guests on z/VM. The technology for this is the execute in place file system (XIP2FS) on Linux for System z. XIP2FS uses the z/VM Discontiguous Saved Segment (DCSS) capability as the foundation for the sharing between guests.

This session will cover the nuts and bolts of both populating an XIP2 file system and maintaining it moving forward. Note: This session will start at 8:00 AM.

Level: Advanced

Linux on System z Security Session (zLSxx)

zLS01 Complete Security with Mainframe Linux

Shawn Wells, Red Hat

An outline of how IBM System z and Red Hat Enterprise Linux creates a complete ecosystem of security. We will explore the creation of custom z/VM privilege classes, the creation of a Red Hat Enterprise Linux baseline (based off National Security Agency standards), as well as digging into SELinux Policy.

Level: Intermediate

Linux on System z User Experiences Sessions (zLUxx)

zLU01 Linux on System z Customer and IBM Open Forum

Panel

This session will bring together our featured Linux customer speakers and IBM System z Management to answer your questions about Linux on System z. Hear what these customers are doing on Linux on System z and share your own experiences. This forum is entertaining and always has its share of surprises.

Level: Basic

zLU02 Linux for System z at Nationwide - From Woe to Whoa!

Rick Barlow, Nationwide Insurance

You've probably heard that Linux runs on the mainframe and is the same as anywhere else - from Intel to System z servers. The challenge is that there can be a lot of politics around choosing to run Linux on the mainframe, deciding on a distribution and methodology for installing and maintaining Linux and even who will be responsible for the virtual Linux environments. Many decisions and discussions need to be made around processes, tools and solutions to decide if they are 'right' for a virtual Linux farm.

This session will give you a candid insight on how Nationwide dealt with those topics along with:
- The key to opening the door for building a Linux environment
- Why Linux? What did we expect it to do for our business?
- What it may take to motivate server, mainframe and even management to work with virtual servers
- Choice of distributions to use on zSeries and decision points
- Who needs to learn what; the learning curve for both mainframe and server folks

The discussion will cover building a Linux Virtualization environment with z/VM on zSeries at Nationwide Insurance, where it is today and some key issues and benefits.

Level: Intermediate

zLU03 Anatomy of a z Penguin - A Customer Experience Helping A Colony Thrive Under Extreme Conditions

Rick Barlow, Nationwide Insurance

It is clear that Linux on System z has a place in the enterprise data center. What makes Linux and System z a powerful combination? How do we maintain the colony?

In this session, a Nationwide Insurance technician will discuss experience with some key topics that include:
- Simple Logical TCO: Why is virtualization on System z a good idea?
- Virtual network features and setup
- High availability
- Disaster Recovery
- Basic Performance measurement and challenges

The discussion will include some technical details of the setup for the virtual network and high availability.

Level: Intermediate

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zLU04 From A (AIX) to Z (Linux on System z), A Customer Experience

Uriel Carrasquilla, National Council of Compensation Insurance

NCCI was in the process of implementing a new actuarial application. It was originally planned to run on AIX using pSeries® hardware, but after benchmarking the application, it was decided to switch over to Linux under z/VM running on zSeries. This presentation covers the application profile, the hardware configuration of both platforms, as well as the organizational battles that were encountered. In addition, it describes the various steps and challenges from the date the benchmark was proposed until the Board of Directors approved the final recommendation.

Level: Intermediate

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zLU05 The Supreme Court of Virginia Rules: Linux and System z - Bringing the Future to Justice

Mike Riggs, Supreme Court of Virginia

Mike Riggs, Manager of Systems and Database Administration, will share his experiences using Linux on System z. He will describe its role in providing an up-to-date mainframe environment, including modernizing traditional z/VSE -z/VM applications. Gain insights into how one distinguished state wide judicial application system is currently utilizing Linux on System z in its production environment. This session will candidly discuss development strategies, growing pains, actual successes and future plans.

Level: Intermediate

zLU06 Technology to Simplify, Collaborate, Inform, Succeed – The Value Proposition of Consolidating Linux Workloads onto System z

Bill Gardner, Transzap, Inc.

How does a leading SaaS (Software as a Service) provider improve on the value proposition it offers to its customers? By taking its industry-leading Linux-based applications that annually process billions in financial transactions related to the energy industry, and consolidating multiple systems onto the most reliable virtual infrastructure platform available – z/VM and System z9. Bill Gardner, IT and Data Center Manager, will share Transzap's experience in how an organization with no prior mainframe experience is learning how to deploy, manage and support a new infrastructure platform, and realize the IT value proposition that aligns with the business value proposition Transzap offers its customers.

- Simplify – consolidating multiple systems (including future expansions) onto a single, scalable platform
- Collaborate – working with world class vendors (IBM, Oracle and Novell) through a single vendor support arrangement
- Inform – Leveraging the z9 and the SaaS concept to provide the most functional and reliable financial data exchange in the industry
- Succeed – Our customers, our partners, and Oildex/Transzap

Level: Intermediate

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zLU07 Linux on System z High Availability Roadmap for a Top 10 US Bank

Mike Dircz

This presentation will discuss the range of high availability options considered by a top 10 US Bank to improve zLinux availability for applications. After considering many alternatives, the bank chose a strategic roadmap to deliver a multi-tiered infrastructure for Linux on System z HA. The strategic roadmap will be shown with the associated infrastructure components, requirements and trade-offs.

Level: Intermediate

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zLU08 Using VM for Linux Disaster Recovery Planning

Rick Barlow, Nationwide Insurance

Most companies have at least considered what they might do if their mainframe computing environment for Linux was suddenly unavailable. Some have been able to provide enough resources in multiple locations to be able to continue processing if one location is disabled. Many companies have chosen to establish a relationship with a company that specializes in Business Recovery. Because of VM's strength in supporting guest systems, it is often the host for Business Recovery for both individual companies and for Business Recovery vendors. This session will cover how one company depends on z/VM to prepare for, document and execute Business Recovery for their production Linux environments. The discussion will include tips and information about the features and tools of z/VM that are available to help recover Linux servers. Technical examples of how to use z/VM for planning and configuring recovery systems/environments will be shown.

Level: Intermediate

zLU09 Extreme Virtualization and Linux: Real Life Case Study on How to Save Millions of Dollars and Simplify the Environment

Robert "Buzz" Woeckener, Nationwide Insurance

This session will focus on how traditional mainframe customers can better utilize and leverage their mainframe investment by implementing Linux on the mainframe and achieving "Extreme Virtualization".

- Paradox - What is Old is New Again
- Reduce Servers and Increase Utilization
- Reduce Total Cost of Ownership
- Cost-Effective Disaster Recovery

Level: Intermediate

zLU11 Mercedes-Benz USA - Driven by Linux on System z

Emmett O'Grady, Mercedes-Benz USA, LLC.

Sit back, relax and enjoy the ride as Mercedes-Benz Supervisor IT Operations, Emmett O'Grady, takes you on a tour of their successful experiences with Linux on System z in their enterprise. He will show how Linux on System z is used to drive corporate goals and will describe the IBM equipment and software options used to steer MBUSA advanced technology projects. Finally, he will discuss how like Mercedes-Benz, Linux can give you the value you expect, the quality and reliability you demand.

Level: Intermediate

z/VM and Virtualization

z/VM General Interest Sessions (zVGxx)

zVG33 Using New CP Features in z/VM 5.4

John Franciscovich

Many new features have been added to the z/VM Control Program in the newest release of z/VM. These include additional virtualization support for Linux guests, scalability enhancements, enhancements to virtual networks and guest connectivity, and technological advances for IBM System z servers. Come to this session to hear about the newest features of the z/VM Control Program and how to use them.

Level: Intermediate

zVG34 z/VM Platform Update: Introducing z/VM V5.4 – Advancing the Art of Server Virtualization

Reed Mullen

This presentation will highlight the new functions available with z/VM V5.4, IBM's advanced server virtualization solution for IBM System z. z/VM V5.4, generally available since September 12, 2008, offers enhanced virtualization capabilities which include: dynamic memory upgrade, flexible specialty engine configuration support and virtual server scalability enhancements. Find out how z/VM V5.4 can help clients further leverage their System z infrastructure for improved business results. This session also serves as an excellent launching point for your week of z/VM training, touching on many of the topics that will be discussed at length during the conference.

Level: Intermediate

zVG35 z/VM Platform Manager: z/VM Direction and Discussion

George Madl

This session is an open dialog and discussion with IBM z/VM Product Owner and Platform Manager, to discuss the z/VM role in the future. On Aug. 5, 2008, IBM announced z/VM V5.4 - Extending virtualization technology leadership for System z, and plans to make it available Sept. 12, 2008. The z/VM hypervisor is designed to help clients extend the business value of mainframe technology across the enterprise by integrating applications and data while providing exceptional levels of availability, security, and operational ease. z/VM virtualization technology is designed to allow the capability for clients to run hundreds to thousands of Linux servers on a single mainframe running with other System z operating systems, such as z/OS, or as a large-scale Linux-only enterprise server solution. z/VM V5.4 can also help to improve productivity by hosting non-Linux workloads such as z/OS, z/VSE, and z/TPF.

Level: Intermediate

zVG36 Introduction to the IBM System Storage DS6000 (for z/VM)

Eric Farman

This presentation brings you up to date on the IBM System Storage DS6000™, an affordable storage solution specifically designed to help medium and large enterprises simplify their storage infrastructures, support business continuity, and optimize information life cycle management. The DS6000 provides both SCSI and FICON attachment, enabling it to serve the needs of your z/OS, z/VSE, z/VM and Linux operating systems.

Level: Intermediate

zVG37 Using z/VM in a SCSI Environment

Eric Farman

This presentation will provide an overview of the z/VM new native support for SCSI disks and how they can be used to install, IPL and run your z/VM system in a SCSI-only environment. z/VM Version 5 supports SCSI FCP disk logical units (SCSI disks) for both system and guest use. SCSI disks can be used as emulated 9336 Model 20 fixed-block-architecture (FBA) disks. Guests that support FBA disks (such as CMS, GCS and VSE) can use SCSI disks through the emulated-FBA support without requiring their own SCSI support. VM's SCSI support allows a Linux server farm to be deployed on z/VM in a configuration that includes only SCSI disks. ECKD™ disks are no longer required. Installation of z/VM from DVD to a SCSI disk, IPL from a SCSI disk using Stand-Alone Program Loader (SAPL) and VM system dumps to a SCSI disk are supported. DASD Dump/Restore (DDR) services using SCSI disks are supported when DDR is running under CMS. This presentation will also provide information on current updates, such as new support for the IBM SAN Volume Controller (SVC).

Level: Intermediate

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zVG38 z/VM and TS1120 Tape Encryption

Eric Farman

The IBM System Storage TS1120 tape drive is now capable of encrypting tapes as it writes them. This presentation will provide a high-level overview on how the solution works and how to utilize the tape encryption support available for z/VM Version 5 and its guests, including those guests that do not understand tape encryption themselves.

Level: Intermediate

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zVG39 z/VM Parallel Access Volumes (PAV) and HyperPAV Support

Eric Farman

This presentation covers details of the PAV minidisk support delivered on z/VM V5.2 via APAR VM63952. APAR VM63952 provides Parallel Access Volumes (PAVs) as minidisks for guest operating systems, such as z/OS, that exploit the PAV architecture. The APAR also provides the potential benefit of PAVs for I/O issued to minidisks owned or shared by guests that do not support exploitation of PAVs, such as CMS. In addition, this presentation covers details of the VM HyperPAV support for the IBM System Storage DS8000 series announced for z/VM 5.3.0. The HyperPAV function potentially reduces the number of alias device addresses needed for parallel I/O operations since HyperPAVs are dynamically bound to a base device on each I/O operation instead of statically like with basic PAVs. z/VM 5.3.0 provides support of HyperPAV volumes as linkable minidisks for guest operating systems that exploit the HyperPAV architecture. z/VM V5.3 is also designed to transparently provide the potential benefits of HyperPAV volumes for minidisks owned or shared by guests that do not specifically exploit HyperPAVs.

Level: Intermediate

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zVG40 z/VM Goody Bag

Rick Barlow

Are you new to VM and wondering where to find all the cool tools that VM veterans use? Many of us have seen MacGyver build almost anything using a pocket knife, duct tape and everyday materials that just happen to be lying around. In this session we will look at some of the favorite raw materials that many VMers use to build almost anything. For starters, the list includes TRACK, VMARC, Pipelines Runtime Library, CHARLOTT, VMFTP and TAPEMAP. We will discuss where to find the tools, the basic function and use, and how to seek information or help from the friendly 'teddy bears' of the VM community.

Level: Intermediate

zVG41 z/VM Evaluation Edition for System z10 Customers

Bruce Hayden

Are you a z10 customer who is interested in evaluating the virtualization technology available with z/VM? The z/VM V5.3 Evaluation Edition is a trial version of z/VM 5.3 that is intended to provide you with the opportunity to evaluate proofs-of-concept, effectiveness, performance, robustness and other capabilities of z/VM. This session will provide details about the z/VM V5.3 Evaluation Edition, show you how to get started with using it, answer any questions you have, and provide a demo of how it loads and runs in an LPAR on a System z10.

Level: Basic

z/VM Networking and Connectivity Sessions (zVMxx)

zVM01 Configuring, Customizing and Modifying your z/VM System

John Franciscovich

What's a system configuration file? Where is the PARM disk? What's a SAPL? This session explains the system configuration file and other attributes that are used to IPL (boot) the z/VM Control Program (CP). Once your system is up and running, most changes to your CP configuration can be made dynamically, without a system outage. We'll give you hints and tips for exploiting these capabilities and show you how to make dynamic changes to your CP configuration, including adding and removing resources and modifying some of the definitions that were used for your system IPL.

Level: Intermediate

zVM02 Managing z/VM and Linux on System z

Tracy Dean

Whether you're using z/VM for the first time to support Linux guests, using z/VM again after a few years away from the platform, or expanding your use of z/VM due to server consolidation to Linux on System z, you'll need to decide how you'll manage the new or growing system. Come hear what IBM has to offer to help you manage this environment more efficiently and effectively, including new features and functions shipped since last year. The presentation will include automated operations, backup and restore, tape management, and archiving. The session will include a demo.

Level: Intermediate

zVM03 z/VM and Linux on System z: Integrating IBM Solutions

Tracy Dean

IBM offers several solutions that touch on systems and performance management of z/VM systems, including their Linux guests. This session will discuss the role of each product (including Performance Toolkit for VM, OMEGAMON XE on z/VM and Linux and Operations Manager for z/VM) and how they can be integrated. Examples of performance and system management scenarios will be discussed, including demos.

Level: Intermediate

zVM04 Dynamically Managing Hardware I/O Configuration Using VM

Rick Barlow, Nationwide Insurance

With continually increasing demand to provide high availability of systems, it is important to be able to manage the hardware I/O configuration without requiring an outage. This session expands on the z/VM facilities, focusing on the functions included in VM to manage the hardware I/O configuration of the processor on which your VM system runs. The conceptsand commands will be covered in detail and working examples will be presented. The presentation will focus on the CP commands for managing the hardware configuration. New content in this session will discuss the HCD / HCM feature of z/VM and show to how use this feature to reduce the complexity of managing the hardware I/O configuration.

Level: Intermediate

z/VM Networking and Connectivity Sessions (zVNxx)

zVN01 TCP/IP for z/VM Update

Tracy J. Adams

z/VM V5.4 includes TCP/IP Function Level 540, a new level of the TCP/IP Feature that delivers significant new functions. This session gives an overview of these enhancements, as well as describing the VM TCP/IP product and the changes to it that were introduced in Function Level 520 and 530.

Level: Intermediate

zVN02 Virtual Networking with z/VM Guest LANs and the z/VM Virtual Switch

Tracy J. Adams

Did you know that you can create virtual LAN segments that connect your z/VM guests together without the need for all those messy point-to-point connections? And did you know you can do that without creating new subnets? Come to this session to hear the latest on how, and when, to use z/VM Guest LANs and the z/VM Virtual Switch. We'll also talk about z/VM support for IEEE Virtual LANs (VLANs) and Layer 2 networks.

Level: Intermediate

zVN03 Configuration Tools for z/VM TCP/IP Network Connections

Miguel Delapaz

The IPWIZARD function allows you to quickly and easily do the base configuration as you first try and get TCP/IP running. The IFCONFIG command allows you to quickly and easily add new connections to your running TCP/IP stack. With these functions, you can get your connections up and running quickly without having to learn the format of the z/VM TCP/IP configuration files. The IFCONFIG command allows you to display information about and make temporary dynamic changes to the TCP/IP configuration without stopping and restarting the TCPIP virtual machine. The command syntax is very similar to that of Linux, making skills more transferable.

Level: Intermediate

zVN05 Link Aggregation with the z/VM Virtual Switch

Tracy J. Adams

Link Aggregation is a new feature of z/VM V5.3. Do you already using a z/VM Virtual Switch to manage your network connections? Do you want to find out how to get more out of z/VM Virtual Switch technology? Come to this session to learn how to make your backup OSA cards work for you by increasing your throughput and creating near seamless failover for your virtual network.

Level: Intermediate

zVN06 Migrating to the z/VM Virtual Switch

Tracy J. Adams

Converting your existing point-to-point or z/VM Guest LAN configurations to the z/VM Virtual Switch can appear to be a daunting task, but it's easier than you think. Here we'll talk about how to move subnet routing off of your z/VM system and onto your networking hardware where it belongs. We'll even talk about how to create IEEE VLANs on a Cisco switch. This presentation is a great way to bridge the "buzzword gap" between you and your network administrators.

Level: Intermediate

zVN08 z/VM and IPv6

Miguel Delapaz

As the availability of IPv4 addresses becomes a concern, the world is slowly moving toward IPv6. Over the past several releases, z/VM has been preparing for the IPv6 transition. This presentation will explore the evolution of IPv6 support in z/VM as well as provide information on how to configure your z/VM system to function on an IPv6 network. Support in both the z/VM TCP/IP suite and z/VM virtual networking options (Guest LAN & VSWITCH) will be discussed.

Level: Intermediate

z/VM Performance Sessions (zVPxx)

zVP01 z/VM Performance Update

Dr. Brian Wade

This presentation covers new developments in z/VM performance and capacity. It includes discussions of the performance and capacity characteristics of new and recent z/VM releases and of performance-related service.

Level: Intermediate

zVP02 z/VM System Limits

Dr. Brian Wade

This presentation examines z/VM's theoretical and practical operating limits. It discusses the reports and other data you can use to evaluate how close your system is to those limits. Finally, it gives some tips and guidelines for using your workload's characteristics to predict which kinds of limits your system will encounter first.

Level: Intermediate

zVP03 Performance Toolkit for VM - A Product Update

Michael Donovan

Performance Toolkit for VM is a powerful tool from IBM for monitoring z/VM system performance that was introduced as an optional, priced feature with z/VM V4.4. With additional enhancements in z/VM V5.1, Performance Toolkit replaced VMPRF and RTM. This presentation will focus on the enhancements to Performance Toolkit for VM that are associated with z/VM V5.2 and with the newly available z/VM V5.3.

Level: Intermediate

zVP04 Performance Toolkit for VM - Hints and Tips

Michael Donovan

Performance Toolkit for VM is a powerful tool from IBM for monitoring z/VM system performance. Come to this session to learn some uses and configuration hints to help you realize the full potential of this tool.

Level: Intermediate

zVP05 Tivoli OMEGAMON XE on z/VM and Linux

Raymond Sun

z/VM is critical to growing use of software running on Linux guests. Managing this environment requires insight into resource consumption at the z/VM level and at the Linux guest level. IBM's product offerings provide an integrated way to monitor (and manage) these performance characteristics. This presentation will discuss the current offerings - functionally, as an integrated solution, with user scenarios, and within the larger system management infrastructure. It will also provide a roadmap for futures with the expectation of gathering advice.

Level: Intermediate

zVP06, zVP07 z/VM Performance: Case Studies and Cookies

Dr. Brian Wade

Nothing goes better with cookies than discussions about z/VM performance. Come share some sweet treats as we illustrate using z/VM Performance Toolkit and other methods to sift through thousands of available performance metrics and thereby solve real-life performance problems. Bring your questions and come and go as you like in this double-length interactive session.

Level: Intermediate

z/VSE

z/VSE General Interest Sessions (zEGxx)

zEG01 z/VSE V4.2 News and Views

Jerry Johnston

This presentation will cover what's new in VSE, including z/VSE V4.2, as well as IBM's strategy for z/VSE. Come learn the latest on z/VSE including modernization. solutions involving Linux on System z, and exploitation of hardware (including encryption technology).

Level: Basic

zEG02 z/VSE Tools Overview

Ingo Franzki

The z/VSE web site offers more than 20 tools ('as is', at no additional charge) for download. The tools are designed make certain z/VSE tasks easier and more interesting. Because of the sheer number of tools, you may have lost track about what tools are provided and what they are for. There may be a tool available that you are not aware of, for a task you need to perform. This session will provide an overview of each the tools that are currently available on the VSE homepage. For every tool, a short description and usage scenarios will be discussed.

Level: Basic

zEG03 All the News about VSAM with z/VSE

Stev Glodowski

With z/VSE 4.2 we have implemented quite a number of enhancement, changes and a lot of new functionality into VSE/VSAM. This session will show and explain all the new features and changes made to VSE/VSAM in detail and in samples.

Level: Intermediate

zEG04 z/VSE V4.2 Technical Insights Part 1

Ingolf Salm

In Part 1, Ingolf will discuss the functional details of z/VSE. Part 2 will go into the implementation details.

Level: Advanced

zEG05 z/VSE V4.2 Technical Insights Part 2

Ingolf Salm

In Part 2, Ingolf will go into the z/VSE implementation details. Part 1 will discuss the functional details.

Level: Advanced

zEG06 The Multi Instant Logic Analyser4VSAM

Stev Glodowski

Learn how to find potential threats like invalid extents, defective space-maps or index structures. Check on capacity issues and limitations before running into them. All of those topics will be covered in this presentation using the "Multi Instant Logic Analyzer4VSAM" including new features like POWER JECL customization, LINUX support and enhanced index analysis.

Level: Intermediate

zEG07 z/VSE in the Elevator

Dr. Klaus Goebel

Will you ever need to explain to your boss what z/VSE is all about? And how IBM would address your top number of z/VSE customer concerns? And how to communicate all of this while riding on the elevator to the top of Empire State Building? If the answer is 'yes' to any of those questions, this is the session for you! Note: This session will start at 8:00 AM.

Level: Intermediate

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zEG08 z/VSE V4.2 and MWLC Pricing

Dr. Klaus Goebel

With the introduction of z/VSE V4.1, IBM also introduced a new software pricing metric known as MWLC. MWLC offers both full capacity and sub-capacity options. MWLC applies only to z/VSE V4 and a number of VSE-related IBM middleware software products running on IBM System z9 or z10 servers. MWLC software pricing offers excellent value for customers. This session provides a "deep dive" into implementation details and customer advantages of this new software pricing metric.

Level: Intermediate

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zEG09 Communicating with IBM

Stev Glodowski

This session will provide you an overview of various service deliverables and ways of contact and communication with IBM in order to obtain them. It will give an overview of ShopzSeries. See how it can be used to order IBM products and service for 'e-delivery' (Internet download), on CD-ROM, or on tape cartridges. It also explains how to search for APARs and PTFs when you encounter an error, how to order them, and what to do with the delivered images or PTFs in order to install them on z/VSE or z/VM.

Level: Basic

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zEG10 Mainframe Resiliency with z/VSE

Wilhelm Mild

z/VSE and z/VM capabilities, in combination with functions in IBM System z and Systems Storage products, increase your flexibility for cloning, continuous operations, data recovery, and disaster recovery situations. This session shows some of the options you have to exploit these concepts to deliver superior business continuity.

Level: Basic

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zEG11 VTAPE Update and Usage

Ingo Franzki

This session covers the latest news about VSE VTAPE and shares hints and tips for best usage. It covers various usage scenarios for VTAPE including electronic product and service delivery, Integration of VSE into a Tivoli Storage Manager environment, as wall as other distributed backup environments.

Level: Intermediate

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zEG12 z/VSE Birds-of-a-Feather and Requirements

Panel

This session is a free discussion session. It also asks for requirements that can be addressed directly to the z/VSE team. Note: This session will start at 8:00 AM.

Level: Basic

zLU05 The Supreme Court of Virginia Rules: Linux and System Z - Bringing the Future to Justice

Mike Riggs, Supreme Court of Virginia

Mike Riggs, Manager of Systems and Database Administration, will share his experiences using Linux on System z. He will describe its role in providing an up-to-date mainframe environment, including modernizing traditional z/VSE -z/VM applications. Gain insights into how one distinguished state wide judicial application system is currently utilizing Linux on System z in its production environment. This session will candidly discuss development strategies, growing pains, actual successes and future plans.

Level: Intermediate

z/VSE SOA & On Demand Connectors Sessions (zEOxx)

zEO01 z/VSE Exploitation and Enterprise Modernization

Wilhelm Mild

With the new possibilities in z/VSE, modern architectures can interoperate with your existing business logic on z/VSE. WebSphere and Portal integration as well as SOA solutions open up new horizons to your business. Real time integration of data and applications with distributed platforms enable unlimited possibilities. This session will show a part of them and how customers implemented them already.

Level: Intermediate

zEO02 SOA Roadmap and Application Integration for z/VSE

Wilhelm Mild

The ability to Integrate proven business logic across platforms has legitimate business value. There are various possibilities (such as CICS Transaction Gateway, Web Services, and MQ) to include z/VSE into the broader solution. Each alternative has its own capabilities - as well as its own pros and cons. SOA is a useful concept, that enables z/VSE for solution integration with other platforms. Come see how to exploit all these possibilities. Note: This session starts at 8:00 AM.

Level: Basic

zEO03 Using SOA Web Services with z/VSE

Ingo Franzki

z/VSE can participate in SOA environments and act as SOAP client and server. The z/VSE implementation of Web Services allows you to use existing CICS applications as Web Services. It also allows you to call an external Web Service from a CICS application on z/VSE. This session illustrates the use of these z/VSE capabilities. The CICS2WS Toolkit is a no charge development tool that helps to transform a CICS application into a Web Service on z/VSE. It also helps define the interface a z/VSE application can use to call on an external Web Service on a remote platform.

Level: Intermediate

zEO04 An Eclipse based Development Environment for z/VSE

Wilhelm Mild

Potential benefits of common Eclipse technology include added productivity for development/maintenance of new or existing z/VSE applications, a common environment and tool set for a wide range of platforms (including Java and WebSphere on Linux) facilitates cross-training and communications, and an environment that is already familiar to recent graduates. Accommodating the needs and preferences of recent graduates may help increase the pool of potential new resources to supplement existing mainframe skills. Note: This session will start at 8:00 AM.

Level: Intermediate

zEO05 VSAM Redirector between z/VSE and z/OS

Stev Glodowski

The VSAM Redirector has evolved to a flexible technology that supports VSAM-to-relational data exchange and synchronization. This Session will show how to use the VSAM Redirector to move data between VSE/VSAM and a relational database like DB2 in a z/OS Environment. Note: This session will start at 8:00 AM.

Level: Intermediate

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zEO06 The VSAM Redirector Technology in z/VSE

Wilhelm Mild

The VSAM Redirector began as an integrated function for data propagation. It has evolved to a more flexible technology that supports VSAM-to-relational data synchronization, and incremental processing. This session will highlight practical possibilities to replace FTP, normalize your VSAM data in multiple tables on a database, populate a Data Warehouse (in real time), and more.

Level: Intermediate

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zEO07 DB2 Server for VSE & VM 7.5 - Connectivity and New Functions

Wilhelm Mild

With Version 7 Release 5 of DB2 Server for VSE & VM, new enhancements are made available for increased productivity and access to remote DB2 LUW databases. With the new Client Edition of the Software, customers can centralize their DB2 data on Linux on System z at low cost. Come and hear what is new and how you can take advantage of a modern environment with DB2.

Level: Intermediate

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zEO51 Workshop: Rational Application Developer for z/VSE Live

Ingo Franzki and Wilhelm Mild

This session shows the options for a modern development environment for z/VSE. It focuses on a live demo of the IBM WebSphere Developer for System z (WDz) product You will see how you can develop z/VSE CICS and batch applications in COBOL, PL/1, C or Assembler using this modern application development framework based on the open platform Eclipse. WDz provides powerful editing capabilities, including syntax highlighting, outline view, code assist. Local syntax check using a built in compiler, as well as remote compiles on z/VSE make it a lot easier to develop and maintain applications.

Level: Intermediate

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zEO52 Workshop: How to Exploit SOA Using z/VSE Web Services

Ingo Franzki and Wilhelm Mild

This session shows how existing applications can become Web Services. The CICS2WS Toolkit is a no charge development tool that helps to transform a CICS application into a Web Service on z/VSE. It also helps define the interface a z/VSE application can use to call on an external Web Service on a remote platform. Come see how to do it practically and seamlessly.

Level: Intermediate

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zEO53 Workshop: How to Access z/VSE Data and Services

Ingo Franzki and Wilhelm Mild

Do you know how to exploit built-in z/VSE connector functionality? What about security and encrypted data access? This session walks you through the setup steps to illustrate how easy it is to use these powerful and flexible connector functions.

Level: Intermediate

zEO54 Workshop: Practical Uses of z/VSE Redirector Technology

Ingo Franzki and Wilhelm Mild

The Redirector is the technology that enables you to synchronize VSAM data with a remote database or collect changes of VSAM data for incremental processing. This session shows how to enable such a scenario and the steps to enable the Redirector functionality on z/VSE and on the remote platform.

Level: Intermediate

z/VSE Security Sessions (zESxx)

zES01 z/VSE Security Concepts and News

Ingo Franzki

This session provides an introduction to the security concepts of z/VSE. It includes CICS and batch security, plus connector and network security. It will cover the standard RACROUTE interface, as well as z/VSE security concepts in an open and heterogeneous world where z/VSE may connect to anyone and everyone. It will cover new security features first introduced in z/VSE V3.1.1, plus z/VSE V4.1 and V4.2 enhancements such as new auditing features and the new LDAP signon support.

Level: Intermediate

zES02 z/VSE Security Exploitation with Crypto Hardware

Ingo Franzki

This session will show how VSE security features like Encryption Facility and SSL (Secure Socket Layer) can be exploited. In addition, this session will describe z/VSE cryptographic capabilities, including Crypto Express2 and CP Assist for Cryptographic Function (CPACF). This session also covers z/VSE's support for the new TS1120 tape drive that provides drive based data encryption.

Level: Intermediate

Exhibitor Presentations

zQV01 Your Linux is Mainframe Ready. What's New with SUSE Linux Enterprise Server for System z

Mark Post, Technical Support Engineer IV

Presented by: Novell

In this session, learn about what's new with SUSE Linux Enterprise Server for System z.

Topics that will be discussed include.
- New Features and Functions in SLES10 Service Pack 2
- z10 Exploitation in SLES10 SP2
- Feature Candidates for SLES11
- z10 Exploitation Candidates in SLES11

And, if time permits, a discussion of what you would like to see added or changed in SUSE Linux Enterprise Server for System z.

Level: Intermediate

zQV02 UPs and DOWNs of zIIPs and zAAPs

Norman Hollander, Director - Mainframe and Performance Technology

Presented by: CA, Inc.

With the advent of System z processor technology, customers have been able to take advantage of Specialty Processors to facilitate their Sysplex environments with Integrated Coupling Facilities (ICFs), and consolidate Distribute Workloads on a mainframe platform with Integrated Facilities for Linux (IFLs). Now with z9 and z10 processors, there may be opportunities to reduce Software License costs with System z Integrated Information Processors (zIIPs) and System z Application Assist Processors (zAAPs). In this session, Norman Hollander will introduce some of the basic concepts of the technology, the considerations for successful implementation, and CA's exploitation of these processors.

Level: Intermediate

zQV03 Brocade DCF Solutions: Creating a Services Oriented Infrastructure for System z

Brian Larsen, Worldwide Business Manager, System z Infrastructure

Presented by: Brocade Communications Systems

The concept of the Brocade® Services Oriented Architecture is based on applying the appropriate services to applications, processors, and storage to maximize efficiency and flexibility for the IT environment. In order to fulfill the requirements of the concept, not only is there a need for intelligent processing, operating systems and storage, there is also a need for an infrastructure that supports its objectives. The Brocade Data Center Fabric (DCF) should support and provide the services to both the host and storage that allow data flows to be managed as requirements change. The Brocade Services Oriented Infrastructure (SOI) provides administrators the flexibility to use adaptive networking that includes; QoS, data mobility, encryption and virtual connectivity for fast and reliable deployments independent of the protocol. This presentation will examine how users should plan for today's infrastructure needs while building the Brocade DCF for the future.

Brocade provides industry-leading platforms, solutions, and services for intelligently connecting, managing and optimizing IT resources in shared storage environments—including mainframe environments—to meet evolving data center requirements for resource consolidation, server virtualization and "green" initiatives. The Brocade DCX™ Backbone provides high levels of performance, scalability, and investment protection to support IBM System z10 implementations. Brocade's new 8 Gbit/sec fibre channel switches deliver unmatched data center performance, fabric QoS, server-to-storage connectivity, virtualization support and integrated traffic management.

Level: Intermediate

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zQV06 Choose the Right Architecture and Save Millions - A Customer Case Study

Mark Post, Technical Support Engineer IV

Presented by: Novell

In a prior life, the speaker was involved in a high-profile Linux-on-Intel project with very tight deadlines. Come hear how choosing Linux on the mainframe could have saved a lot of money, several thousands of hours of people time and made the deadline a non-issue. The actual implementation will be shown, as well as the mainframe Linux alternative.

Level: Intermediate

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zQV07 New World Compliance for New World Mainframes

Norman Hollander, Sr, Director - Mainframe and Performance Technology

Presented by: CA, Inc.

Organizations are under increasing pressure to protect corporate assets, manage regulatory compliance and IT governance while ensuring business continuity. Security and Storage convergence creates a strategic symbiotic relationship that addresses compliance to company internal policies and evolving external regulations.This session discusses how CA solutions enable your compliance activities as part of an integrated, enterprise-wide approach.

Level: Intermediate

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zQV11 Cisco FICON Solutions

Brent Anderson, Advanced Technology/Storage Networking

Presented by: Cisco Systems, Inc.

Cisco FICON solutions – now with repulsar blasts, jet boots, and powered by an arc reactor...The Iron Man solution for your FICON switching and extension needs.

Level: Intermediate

zQV12 Low Cost, Scalable and Qualified Networking Solutions for GDPS and STP

Garry Moreau, Senior Staff Alliance Consultant

Presented by: Ciena

Today, the critical need for corporations to protect and maintain 24 x 7 availability to their data is requiring Business Continuance solutions to replicate mission critical data to geographically separate data centers. In many cases the barrier to deployment is the network connectivity costs. Efficient networking solutions that optimize your IT infrastructure can lower the cost significantly allowing high performance optical connectivity to become a reality. At this session you will learn how Ciena lowers the cost of implementing data replication and business continuance solutions for IBM zSeries mainframe servers by offering the industry's most efficient WDM transport solution. Using the CN 4200 FlexSelect Advanced Services Platform, zSeries users can achieve up to 67% greater efficiency in their transport channel counts compared to other qualified WDM solutions. As the first WDM solution qualified to multiplex IBM communications channels carrying the new STP timing protocol Ciena uniquely meets the needs of low-cost, scalable transport in GDPS environments.

Level: Intermediate

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zQV14 More Performance "Bang" for your Storage "Buck"

Brent Phillips, Managing Director, US

Presented by: IntelliMagic, Inc.

Today's economic pressures are at odds with the need for speed from mainframe storage. This session will show new storage performance metrics and monitoring capabilities that improve storage hardware utilization levels (increasing hardware ROI) while at the same time significantly reducing both the risk of service disruptions and the amount of IT staff time necessary for understanding, monitoring, and diagnosing storage and disaster recovery replication performance. All session participants will receive a copy of the presentation on a flash memory stick.

Level: Intermediate

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zQV15 What Makes a z Linux Proof of Concept Successful?

Andy Greco, z Workload Solutions Consultant

Presented by: Mainline Information Systems

Most companies begin their first foray into the Linux on System z world by conducting a z Linux proof-of-concept (POC). This presentation will draw upon the many years of experience of the presenter and will examine the dos and don'ts of a POC. Andy will discuss how to pick the right application, what organizational pitfalls to avoid, as well as, how to address the technical and political issues involved in most POCs. At completion of this presentation, the audience will have a much clearer understanding on how to successfully complete a Linux on System z POC.

Level: Intermediate

zQV17 Managed Evolution for System z - Strategically Modernizing Host I/O Infrastructure While Preserving Legacy Device and Application Investments

Sean Seitz, Vice President of Technical Services

Presented by: Optica Technologies Incorporated

IBM's new System z10 offers extraordinary consolidation, scalability and flexibility for mainframe environments; however these benefits can be undermined by the undesirable impacts of needing to manage a mixed environment of FICON, ESCON and Bus/Tag infrastructure. Managed Evolution for System z is a planned approach to modernizing host I/O infrastructures to FICON while maintaining necessary and stable applications and device types that are dependant on ESCON and Bus/Tag. As strategic components of Managed Evolution, this discussion will cover Optica's Prizm FICON Converter and it's high ROI applications, as well Optica's Eclipz Tape Encryptor and the benefits of this SIMPLE, high performance, low cost tape encryption solution.

Level: Intermediate

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zQV18 Red Hat Update for System z

Shawn Wells, Lead Solutions Architect

Presented by: Red Hat

An update of Red Hat Enterprise Linux for System z. What hardware (and z/VM) features we're planning to exploit, where we're going with our Linux on System z portfolio, architectural overview of recent customer wins, then ending with a Q&A session with the leads of our System z Solution Architecture Group (Shawn Wells) and our Special Engineering Group (Brad Hinson).

Level: Intermediate

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zQV19 Exploiting the zIIP Specialty Engine: New Technologies for Cost Effective Mainframe SOA Enablement

Gregg Willhoit, Chief Software Architect

Presented by: DataDirect Technologies

This session will detail the latest advances in mainframe middleware architecture, including the creation of a new hybrid thread type – the logical dispatchable unit – and how LDUs can combine with new WLM management techniques to exploit the System z9 Integrated Information Processor (zIIP) allowing organizations to offload significant portions of their mainframe SOA and data processing to the zIIP's unmeasured, non-speed restricted environment. With this information, users can develop more effective strategies for lowering mainframe TCO and integrating their mainframe systems into SOAs and BI initiatives.

Level: Intermediate

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zQV32 The Road to z/OS Integrity and Sustained Compliance

Bob Mancini, Director of Product Marketing

Presented by: NewEra Software, Inc.

Today over 70% of worldwide corporate and government data resides on IBM Mainframes. The majority of mainframe sites rely on z/OS as their primary operating system. In this session, the presenter will make the case that commercially available z/OS Security Products - RACF, ACF/2 and Top Secret - while adequate for generic resource protection are not sufficient to support the more demanding requirements for ongoing z/OS Integrity and sustained Compliance. To achieve z/OS Integrity, the presenter will recommend that technical staff consider system level software tools that provide assured access to z/OS resources; can be a trusted source of z/OS system information; that document, manage and detect z/OS hardware and z/OS software configuration changes; and when needed, efficiently conduct z/OS Integrity Audits in conformity with a prescribed Audit Plan.

Level: Intermediate

zQV33 Turn Your Mainframe Into a Web Citizen™

Patrick Fournier, VP – Virtel U.S.

Presented by: VirtelUS, Inc.

VIRTEL Web Suite is a mainframe-based, thin-client protocol converter between VTAM and TCP/IP that can be deployed in two or multi-tier configurations to convert the proven business logic of legacy applications to dynamic Web applications, turning them into true Web citizen™:

- VIRTEL Web Access extends mainframe applications and data to the Web instantly
- VIRTEL Web Modernization allows adding a dynamic Web 2.0 user interface with AJAX to replace outdated 3270 screens
- VIRTEL Web Integration allows establishing bi-directional connections between mainframe and Web applications to integrate them with SOA and WebSphere through Web Services, XML flows, etc

The presentation will include the demonstration of a CICS COBOL application accesses through VIRTEL from a standard Web browser using both classic and redesigned user interfaces.

Level: Intermediate

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zQV34 The TM/Automation Edition Hit Parade

Martin Wills, Senior Product Specialist

Presented by: MVS Solutions, Inc.

ThruPut Manager's Automation Edition has now been available for a whole year. Come and hear the feedback on the most popular features, as reported by datacenters using the product. Highlights include dynamic initiators, user displays, a sophisticated "flower box", workload distribution and more.

Level: Intermediate

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zQV35 Encryption and Key Management for Sensitive Data on z/OS

Presented by: nuBridges, Inc.

Even with state-of-the-art network security, sensitive data is still vulnerable at rest and in motion. Enterprises are starting to change the way they think about data protection – moving the boundary from the network to the data itself.

A complete data leak prevention strategy includes strong encryption and full-lifecycle encryption key management for z/OS databases, files, applications and associated backup storage. Driven by industry mandates such as PCI DSS and by government breach regulations, data protection solutions are now available that encompass integrated encryption, key management and logging.

nuBridges Protect™ is a software solution that supports IBM z, IBM i and distributed platforms. This session will explore how it can be used as part of a comprehensive data protection strategy.

Level: Intermediate