

WAVV Agenda



Colorado Springs
April 15 – 19, 2011

WAVV Committee

Requirements:

Karl DeVore, Lake County
Ellen Alexander, School Dist of Lee County
Ron Campbell, IBM Canada
Tony Thigpen, Thigpen Enterprises, Inc.

User Groups:

Ron Campbell, IBM Canada
Pete Clark, CPR Systems

Vendor Relations:

Pete Clark, CPR Systems

IBM Representatives:

Miguel Delapaz
Siegfried Langer
Julie Liesenfelt

CICS:

Karl DeVore, Lake County
Ken Ripple, ADI/Honeywell

Data Management:

Kevin Corkery, Cor Co Consulting

Futures / Directions:

Eric Vaughan, illustro Systems
Rich Smrcina, Velocity Software

LINUX:

Jeff Barnard, Barnard Software, Inc.
Rich Smrcina, Velocity Software

Network Computing:

Steve Dunnavant, Cendant Timeshare
Debbie Henderson, Hanes

Performance:

Billy Bingham, Baer Consulting
Ken Meyer, CA Technologies

Utilities and Languages:

Chris Sims, TxMQ Inc.
Martin Trudbner, Germany
Chris Behrends, Mid American Computer

VSE Systems Control and Productivity:

Tony Thigpen, Thigpen Enterprises, Inc.
Gil Porter, DHL Computing Service
Ellen Alexander, Lee County Schools

VM:

David Boyes, Sine Nomine
Hans Rempel, HMR Consultants
Steven Southerland, Ceridian

Staff:

Pete Clark, CPR Systems
Bennie Pugh, CPR Systems
Charlie Rice, CPR Systems
Kathy Clark, WAVV Volunteer
Midge Pugh, WAVV Volunteer
Judy Rice, WAVV Volunteer

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Friday April 15, 2011

Attendee Registration – Group Registration

02:00 PM – 9:00 PM Registration

06:00 PM – 6:45 PM WAVV Committee Gold Camp
All WAVV Committee Members please attend.

Foothills

07:00 PM – 11:00 PM *Splash* Special People Love a Special Happening.
Food, drinks and especially interesting conversations. Come early, stay late, ask questions, get answers, give opinions, but do not miss SPLASH. The right way to begin WAVV.

Saturday April 16, 2011

Attendee Registration – Group Registration

07:00 PM – 7:00 PM Registration

Saturday 8:00 AM

U4 Opening Session

Moderators: Pete Clark and Charles Rice

WAVV opening session. Introductions of projects and WAVV committee members followed by WAVV announcements. Helpful information for both old and new attendees and a chance to renew old friendships. Do not miss this first session.

Saturday 9:00 AM

U4 IBM Update

Moderators: Pete Clark and Charles Rice

Speakers: Klaus Goebel, Siegfried Langer, Miguel Delapaz, IBM

A brief update on what's new with z/VSE, z/VM, Linux on System z, and IBM System z servers and related news since WAVV 2010.

Saturday 10:30 AM

U1 z/VSE and Linux on System z inseparably more than a decade

Speaker: Wilhelm Mild, IBM

Moderator: Rich Smrcina

Over a decade that z/VSE got its sibling in Linux on System z. Inspire yourself with the possibilities you have and how you can get your business to new dimensions.

U2 Linux on Systems z Update: Current and Future Linux on System z Technology

Speaker: Hans-Joachim Picht, IBM

Moderator: Rich Smrcina

This presentation will detail the latest features for Linux on System z, as well as a detailed outlook for Linux

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on System z development occurring in the IBM Labs and the open source community. Future technology enhancements are expected to be provided with upcoming releases of Linux enterprise distributions. We will address both System z specific features and some current platform independent developments in Linux. The session will attempt to give an impression of how Linux development for System z works, and where we are heading. Current technology will be presented as we take a closer look at the features which have been added to the most recent Red Hat and SuSE Linux Distribution Update.

Saturday 11:45 AM

U1 CICS TS for VSE/ESA News

Moderator: Karl DeVore

Speaker: Mike Poil, IBM Hursley

The announcement of z/VSE 5.1 includes a Statement of general direction saying: “IBM intends to provide CICS Explorer capabilities for CICS TS for VSE/ESA, to deliver additional value.” Mike Poil from the Hursley laboratory will introduce and demonstrate some of the functionality of the version of the product that is shipped for use with CICS TS for z/OS to give you a taste of what the CICS TS for VSE/ESA version may provide.

U2 What’s new with RHEL 6 for System z

Moderator: Jeff Barnard

Speaker: Brad Hinson, Red Hat

This presentation details what's currently available in RHEL 6 for IBM System z. Come see a live demo of these new features in action, plus get a peak at other new technologies we're working on at Red Hat.

U3 z/VM Platform Update

Moderator: Steve Southerland

Speaker: Miguel Delapaz, IBM

This session will provide you with the latest and greatest information about z/VM. We will discuss support dates, important APARs for z/VM V5.4, z/VM 6.1, the Statements of Direction for Single-System Image and Live Guest Relocation, as well as z/VM support for IBM’s newest System z server.

Saturday 12:45 PM **Lunch on Your Own**

Saturday 1:45 PM

U1 z/VSE Performance Update

Moderator: Billy Bingham

Speaker: Ingo Franzki, IBM

This session will share the latest on z/VSE V4.3 performance. The information presented here may be useful in managing your own overall performance, including distributed environments. For example, how does z/VSE V4.3 compare with prior versions/releases of VSE? What are the performance implications of z/VSE and Linux mainframe environments? What about new z/VSE V4.3 functions, such as GETVIS constrain relief, 4 Digit CUUs, 1MB frames, Queue-I/O assist, etc.?

U2 Introduction to the new Linux on System z Terminal Server using IUCV

Speaker: Hans-Joachim Picht, IBM

Moderator: Rich Smrcina

IBM has introduced a new full-screen terminal access to Linux instances on the same z/VM system, using

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the Inter-User Communications Vehicle (IUCV). This feature is part the latest Enterprise Distributions for System z and provides an alternative terminal access to 3270 and 3215 line-mode terminals, especially for the Linux system administrator with only basic z/VM skills. Another use case is the system administration in a tight security environment, where sensitive Linux instances are isolated from the local IP networks. You will learn how to set up a Linux instance as a terminal server for a virtual Linux server farm on z/VM.

U3 Introduction to z/VM Virtualization Moderator: Steve Southerland
Speaker: Bill Bitner, IBM

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 an dispatching, methods for virtualizing memory and I/O devices and ways z/VM’s virtual machine model transcends mere hardware virtualization.

Saturday 3:00 PM

U1 How to reduce I/O on VSE Moderator: Tony Thigpen
Ken Meyer

Over the years I/O has become faster and faster, but still lags way behind the CPU speeds of your average mainframe. Come and join us for this session on available methods and processes. Add your own experiences and opinions, good and bad. This should be a lively and pertinent panel discussion.

U2 Performance in a Virtualized Environment Moderator: Jeff Barnard
Speaker: Siegfried Langer, IBM

Performance tuning is an art. Typically there are no fixed rules to its optimization as many factors are influencing system throughput and resource consumption, as well as service level requirements. In a virtualized environment this becomes even more complex as virtualized systems may compete with the hypervisor for resources. The presentation will cover general performance considerations in a virtualized environment with focus on Linux and z/VM.

U3 The Basics of Using z/VM Moderator: Steve Southerland
Speaker: Miguel Delapaz, IBM

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 awhile and a want a VM refresher, this is the session for you! We will show you which VM command 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.

Saturday 4:15 PM

U1 Setup Monitoring for z/VSE Moderator: Billy Bingham
Speakers: Wilhelm Mild & Ingo Franzki, IBM

Workshop: With z/VSE 4.3 you can monitor z/VSE using SNMP and include it in your enterprise monitoring environment. Come and see how you setup such an environment.

U3 z/VM and Linux Guest Performance "Best Practices" Moderator: Steve Southerland

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Speaker: Jon vonWolfersdorf, IBM

This presentation 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 virtualized environment.

Saturday 5:30 PM

U4 A Vision of the Future – in the Light of 44 Years of Experience

Speaker: Dr. Karl-Heinz Strassemeyer, IBM

Moderator: Eric Vaughan

“Dr. Karl-Heinz Strassemeyer, Distinguished Engineer from the IBM Boeblingen Lab, has been sharing his vision of our future for a very long time. In between these sessions, he has been hard at work to see that these predictions actually come to reality, for the betterment of mainframe-kind. At this, his last appearance at WAVV before his retirement after a stellar career with IBM, Dr. Strassemeyer will help us gain perspective on the past by once again sharing a view of the future.

Join Eric Vaughan as we host a very special session for Dr. Strassemeyer at this end-of-day session. It promises to be a special moment for WAVV.”

Summit Ballroom

07:00 PM – 11:00 PM

Splash

Special People Love a Special Happening.

Food, drinks and especially interesting conversations. Come early, stay late, ask questions, get answers, give opinions, but do not miss SPLASH.

Sunday April 17, 2011

Attendee Registration

07:30 AM – 5:00 PM

Registration

Sunday 7:00 AM

V2 Prayer and Praise

A special non-denominational celebration on Sunday morning.

Sunday 8:00 AM

U1 z/VSE Security

Moderator: Gil Porter

Speaker: Ingo Franzki, IBM

This session provides an introduction and best practices to the basic security concepts of z/VSE. It includes CICS and batch security, plus connector and network security. It will also cover z/VSE security concepts in an open and heterogeneous world where z/VSE may connect to anyone and everyone. This session will also show you how to exploit z/VSE security features like Encryption Facility for z/VSE and SSL (Secure Socket Layer). In addition, it will describe IBM mainframe cryptographic technology, including Crypto Express2 and CP Assist for Cryptographic Function (CPACF).

U2 zPDT: z on Your Thinkpad!

Moderator: Steve Dunnivant

[U1 – Gold Camp](#)

[U2 – Pikes Peak I & II](#)

[U3 – Pikes Peak IV](#)

[U4 – Summit Ballroom](#)

[V1 – Centennial](#)

[V2 – Pikes Peak III](#)

[Lab – Foothills](#)

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Speaker: Dr. Klaus Goebel, IBM

The IBM System z Personal Development Tool (zPDT) is a new technology from IBM that enables a virtual System z10 architecture environment on a Lenovo Thinkpad or IBM System x server. It allows mainframe operating systems such as z/OS, z/VM, z/VSE, or Linux on System z, as well as mainframe middleware to run unaltered on Intel and Intel compatible platforms. zPDT is used by IBMers internally since many years, and recently has been released to ISVs and commercial customers for application development. This session describes the technics behind zPDT and its usage scenarios.

Lab: Lab – Configuring z/VM 6.1 for Hosting Linux on System z Workloads

Speakers: Richard Lewis & Jon vonWolfersdorf, IBM

As businesses seek to become more efficient and agile with regard to IT infrastructure, one very effective strategy is to consolidate distributed workload onto System z using virtual Linux servers, and IBM's world-class virtualization technology – z/VM. In this hands-on workshop, each student will be the system programmer of their very own z/VM environment, taking a freshly installed z/VM 6.1 image and performing all of the system programming steps necessary to make that z/VM image production ready. Tasks include setting system config file defaults, adding “system owned volumes” to the system, connecting the system to a TCP/IP network, defining a VSWITCH for Linux virtual machines, configuring the Directory Maintenance facility, preparing a base Linux virtual machine to support rapid copying or cloning and configuring the programmable operator facility to help automate and monitor the Linux guest environment. All of this work will be done on the System z installed in the technical showcase, so once you have finished the workshop, you will be able to go and look at the system you were using inside and out!

Sunday 9:15 AM

U1 z/VSE 4.3 - The time to get is NOW!

Moderator: Tony Thigpen

Speakers: Kevin Corkery, Cor Co Consulting
Pete Clark, CPR Systems

Since future z/VSE releases will not run on pre-z9 hardware, many shops will need to upgrade (or at least order the tapes) before the next z/VSE release becomes available. During this session, users will give an overview of their experience with z/VSE 4.3 which will be followed with an open discussion on how to plan for the migration. Included will be a discussion concerning the "no CICS/VSE shipped with z/VSE 4.3" restriction.

U2 Running Linux on System z as a z/VM Guest: Useful Things to Know

Speaker: Hans-Joachim Picht, IBM

Moderator: Rich Smrcina

It seems as if the majority of the current Linux on System z installed base is running on top of the z/VM hypervisor. If you have such an environment or plan to deploy something like this come to this session. You will learn how a Linux guest can interact with CP based on real world examples and use cases for your day to day operations. Topics include the hypervisor file system, vmur, vmcp, cmm and many more.

V1 Managing Performance for a Linux AND VSE Cloud Environment

Velocity Software

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Managing a virtualized Linux AND VSE environment with a cloud architecture requires management. This presentation will show how ZVPS provides:

- Performance analysis to maintain service levels
- Capacity planning to ensure future service levels
- Operational alerts to avoid service degradations
- Chargeback for accounting

ZVPS has added VSE as a supported platform for performance management. VSE Performance management will be included as part of this discussion.

V2 **BI for everyone using DataQuant**

Drew Moore, Information Management Technical Architect, LRS

Is BI as confusing to you as the Cloud is to me? When your boss asks about dashboards is he talking about your '65 Chevy or some report format he needs?

LRS hopes to answer some of these questions **and more** in our presentation and demo of DataQuant. DataQuant is a powerful but easy to use business intelligence tool that streamlines the delivery of business data. DataQuant can create query, reporting and dashboards on all IBM platforms. It can be used with virtually all JDBC compliant data sources, including DB2 on any platform, Oracle and SQL Server.

Lab: **Lab – Configuring z/VM 6.1 for Hosting Linux on System z Workloads Part 2 of 4**

Speakers: Richard Lewis & Jon vonWolfersdorf, IBM

This is the continuation of the 4-part lab beginning at 8:00 AM.

Sunday 10:30 AM

U1 **z/VSE Fast Path to Linux on System z**

Moderator: Tony Thigpen

Speaker: Ingo Franzki, IBM

The Fast Path to Linux on System z is a brand new function included in z/VSE 4.3. This session will give an overview about the Linux Fast Path function. We will discuss what features it provides and what benefits you can expect by using it. This session is of special interest for everybody that runs z/VSE applications communicating with applications running on Linux on System z. Good examples are applications using the DB2 Client, Connectors, VSAM Redirector, etc.

U3 **Webifying the agenda**

Moderator: Martin Trubner

Speakers: Chris Behrends, Mid America Computers
Martin Trubner, Pi-GmbH

Last year we had the agenda as static html file. So everyone could access the agenda (even from machines that could not read PDF).

This year we went one step further and created an android-application that has up to date information. The up to date information can also be used as source for the non android crowd.

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We will talk about what tools we used, how we did it and what we would do different next time.

V1 **TapeStream - Complete Tape Management**

Fischer International

TapeStream provides more than full-function tape emulation. Tape images can be automatically scratched (deleted or re-initialized) based on volume serial number, dataset name, creation date, expiration date, size or other factors. FIPS-140 encryption is available as well.

The catalog feature can be used to track datasets written to TapeStream tapes by dataset name, volume serial number, creation date, expiration date, jobname or step/phase name. The catalog is maintained using standard SQL, so your installation can easily write custom reports to meet your needs.

The Post-Processing feature allows tape images to be transferred to LAN/SAN storage or other locations, or automatically burned to optical media using a disk publisher. Differential duplication can be automatically launched to reduce the amount of data that needs to be sent to a remote site or archived for recovery.

V2 **The IBM Mainframe in the Cloud & The Enterprise Data Infrastructure**

aMod, The Application Modernization Company

Challenges that corporations are facing when moving the IT enterprise infrastructure towards Cloud Computing Enablement. The presentation will specifically focus upon the data layer and it's vital role in the Cloud.

Lab: **Lab – Configuring z/VM 6.1 for Hosting Linux on System z Workloads Part 3 of 4**

Speakers: Richard Lewis & Jon vonWolfersdorf, IBM

This is the continuation of the 4-part lab beginning at 8:00 AM.

Sunday 11:45 AM

U1 **z/VSE Internals (deep dive)**

Speaker: Ingolf Salm, IBM

Moderator: Gil Porter

Get an insight into functional details of z/VSE with emphasis on z/VSE V4.3 and selected enhancements.

U2 **Lessons Learned on Putting Linux on System z in Production**

Speaker: Hans-Joachim Picht, IBM

Moderator: Jeff Barnard

You've heard by now that Linux runs on the mainframe and is effectively the same Linux 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 high level overview on how customers around the world dealt with those topics before. You will hear about how they took mainframe Linux from initial proof of concept to being a strategic platform choice for several important applications.

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U3 Using SCSI in a z/VM Environment

Moderator: Hans Rempel

Speaker: Steve Wilkins, IBM

Cancelled – Speaker could not attend because of Weather

V1 ITC's uPDT: zPDT as it was meant to be!

Speakers: Stan King and Mike Hammock

IBM's zPDT provides the foundation of a software based System z environment and Information Technology Company (ITC) packages it into a complete and ready to use Ultimate Personal Development Tool (uPDT). You have probably heard about zPDT from IBM and other sources, now come listen to the people with the most zPDT experience outside of IBM to get more "real life" information. Stan will provide some general information and background of zPDT then Mike will get into more a more detailed description. We will conclude by showing how ITC has improved the basic zPDT system with ITC provided tools and enhanced functionality. A live demo with open Q&A session will conclude the session.

V2 How to Sell Linux to your company and make the implementation a Success

Mainline

The purpose of the presentation is to give the attendees the information necessary to 'sell' Linux on z Series to their respective company. Included are the business reasons for Linux as well as the appropriate applications. Once the company decides to implement Linux, the presenter will provide information on the 'Do's and Don'ts' of the inevitable Linux Proof of Concept that follows.

Lab: Lab – Configuring z/VM 6.1 for Hosting Linux on System z Workloads Part 4 of 4

Speakers: Richard Lewis & Jon vonWolfersdorf, IBM

This is the continuation of the 4-part lab beginning at 8:00 AM.

Sunday 12:45 PM

Lunch in Vendor Room

Sunday 3:00 PM

U1 There is more than just Connecting CICS to the Web

Moderator: Karl DeVore

Speaker: Martin Trubner, Pi-Systemprogrammierungs-GmbH

To connect CICS/TS (even on 2.7) to the web is easy these days. But there is more - here are some of the problems that might come with this. Some on VSE-L might recall the iceberg that surfaced in March and April 2010. The full story is here and covers the problem, the short fix and the long range activities.

U2 SCSI over FCP for Linux on System z Roundup

Moderator: Rich Smrcina

Speaker: Sven Schuetz, IBM

The Linux zfc device driver adds support for Fibre Channel attached SCSI devices to Linux on System z.

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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. This presentation will cover hardware and software requirements, configuration, IPL and dump.

U3 **z/VM Performance Update** Speaker: Bill Bitner, IBM

Moderator: Hans Rempel

The speaker will cover new developments in z/VM performance. Topics include the latest z/VM releases and performance-related service.

V1 **IPv6/VSE and z/VSE** Barnard Software

IPv6? What's that? Why do I need it? Does z/VSE support it? Come hear Jeff Barnard of Barnard Software, Inc. discuss IPv6, IPv6/VSE, IPv6 support in z/VSE and transitioning to IPv6.

V2 **Solutions for Maximizing the Integration and Usability of VSAM files on VSE** Don Spoerke , GT Software

An in-depth overview of how GT Software's Ivory suite can help developers maximize the usability of VSAM data without an impact on development or IT resources. Reusing these files saves time, money and eliminates the need to re-host the data for the purpose of BI, warehousing, or integration to new applications. Also join Don at the SPLASH Exhibit Hall on Sunday from 7 – 11 PM, and Monday from 12:45 - 3:00 PM and 7:00 – 11 PM.

Lab: **Beginning Linux – Hands on Lab Part 1 of 3** Speakers: Richard Lewis & Jon vonWolfersdorf, IBM

Most likely you have heard of the Linux operating system, but perhaps the somewhat arcane command names have scared you away from doing anything with the operating system. Certainly command names such as grep, awk and so forth can be intimidating. This hands-on workshop is intended for people with no UNIX or Linux background. The purpose of the lab is to introduce you to the Linux operating system from an “end-user” perspective. You will experience logging into a Linux system and have the opportunity to execute various Linux commands that any user of a Linux system or Linux System Administrator needs to be aware of. Along the way, we will cover the basic structure of the operating system, and put the commands you are working with into the larger operating system context. You will learn about things such as processes, devices, file systems and commands that relate to those portions of the operating system and much more. This workshop is an excellent place to start if you are interested in the Linux operating system.

Sunday 4:15 PM

U1 **Introduction to new Features in z/VSE 4.3 Connectors** Moderator: Steve Dunnivant Speaker: Ingo Franzki, IBM

This session provides an introduction into the new features of the z/VSE Connectors in z/VSE 4.3. It will discuss what POWER Output Generation Messages (OGM) are and what you can use it for.

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The session will also talk about the Decimal Position Support in the Java-based Connectors, as well as enhancements in VSAM Redirector, like the Redirector EXCPAD support.

Besides the new z/VSE 4.3 features, this session will also highlight a few of the recent enhancements provided with in z/VSE 4.2 and older releases. For example, did you know about the Web Services Security support available since z/VSE 4.2?

U2 Linux on System z – s390-tools in a Nutshell Moderator: Rich Smrcina
Speaker: Hans-Joachim Picht, IBM

Whenever you have to operate, configure and maintain a Linux on System z system, you will face a combination of general architecture independent and platform specific system administration tools. The s390-tools package is the essential tool chain for Linux on System z. It contains application for every stage of the life cycle of system, from the boot loader to dump related tools. This presentation will outline the major set of the tools in a nutshell, including the primary use cases, hints and real world examples providing quick authoritative solutions to daily system administration tasks.

U3 What's New in z/VM I/O Support? Moderator: Hans Rempel
Speaker: Steve Wilkins, IBM

Moved to Monday 9:15

V1 NeoKicks and Visual Studio Integration
Speaker: Michael Leslie, Alchemy Solutions

Developers who have a need to generate and maintain online applications have a friend in Visual Studio and NeoKicks. The NeoKicks product, developed by Alchemy Solutions, is able to work within a Visual Studio development environment and makes the development, support and enhancement of online applications a breeze. Also, developers can have access to the superior debugging capabilities offered by Visual Studio. And that means that also have the ability to use one single debugger with their online application and any other .NET developed applications already in place in their environment. All in all, Visual Studio and NeoKicks make the online developer's world a much more productive place to be!

V2 Introducing Cloud Enablement for Linux and VSE
Velocity Software

zPRO from Velocity Software provides the cloud enablement beyond the performance management architecture provided by ZVPS.

Come here how Velocity Software brings z/VM into a full cloud solution for the enterprise, including cloning of servers, security management, directory management and a web based interface to managing the enterprise based on a z/VM webserver interface.

Lab: Beginning Linux – Hands on Lab Part 2 of 3
Speakers: Richard Lewis & Jon vonWolfersdorf, IBM

This is a continuation of the lab that started at 3:00 PM.

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Sunday 5:30 PM

U1 CICS TS Performance Tuning Primer – Analyzing DFH0STAT Reports

Speaker: Greg Rodriguez, C\Trek Corporation

Moderator: Karl DeVore

This session will review the different reports that can be produced using the STAT transaction in CICS TS. Emphasis is given to those reports that can be used to tune the system. The session is intended for system programmers who are not familiar with the reports produced by DFH0STAT.

U2 Problem Reporting and Analysis Linux on System z – How to survive a Linux critical situation

Speaker: Sven Schuetz, IBM

Moderator: Jeff Barnard

We will introduce a trouble shooting first-aid-kit for Linux on System z. You should always have it on hand and can get on it - just in case. Sven, IBM Team lead for Linux on System z Service team, will guide you through some examples of real customer problems, their diagnosis, and solution. Maybe yours is among them.

U3 z/VM System Limits

Speaker: Bill Bitner, IBM

Moderator: Hans Rempel

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. Included is a brief look at some of the ways IBM tests these limits.

V1 illustro Systems International Update

Speakers: John Lawson and Chuck Arney, illustro

Come hear what's new with illustro's software and services. Updates to the z/Ware 2.0 Internet enabling software and the z/IPMon TCP/IP monitor software will be highlighted. Bring your own topics for discussion with the illustro technical staff.

Lab: Beginning Linux – Hands on Lab Part 3 of 3

Speakers: Richard Lewis & Jon vonWolfersdorf, IBM

This is a continuation of the lab that started at 3:00 PM.

Sunday 7:00 PM – 11:00 PM

Splash & Exhibits

Exhibit Hall

Special People Love a Special Happening. Food, drinks and especially interesting conversations. Come early, stay late, ask questions, get answers, give opinions, but do not miss SPLASH.

Monday April 18, 2011

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Attendee Registration

See Bennie Pugh

Monday 8:00 AM

U1 z/VSE Performance Roundtable – Shrinking Batch Window

Speaker: Pete Clark, CPR Systems

Moderator: Gil Porter

Ken Meyer, CA Technologies

Martin Trubner, Pi-GmbH

Mike Poil, IBM Hursley

Come and join us for a live VSE-L, focusing on performance and how it can be improved, the situations being faced by ever shrinking mainframe budgets, and how system programmers are expected to do more with less in this still shaky economy.

U2 Crypto Support for Linux on System z Introduction

Moderator: Jeff Barnard

Speaker: Hans-Joachim Picht, IBM

System z provided unique hardware security features which can be exploited by Linux running on this platform. An overview about all the supported crypto solutions by Linux on System z will be given in this presentation. The first part of this presentation will outline the supported hardware including crypto cards and CPACF. The second half covers the crypto support provided by Linux on System z, their usage (e.g. Apache-SSL), and some performance results.

U3 z/VSE Tools Overview and Update

Moderator: Tony Thigpen

Speaker: Ingo Franzki, IBM

The z/VSE web site offers more than 20 tools (provided unsupported, 'as is', at no additional charge) for download. These 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 currently available on the z/VSE homepage. For every tool, a short description and usage scenarios will be discussed.

Lab: Installing Red Hat 6.0 or SuSE SLES 11 SP1 in a System z FCP Environment Hands-on Lab Part 1 of 3

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

While Linux is the same operating system across all supported platforms, there are some unique platform features that must be understood, especially when working in a System z environment. In this workshop, students will have an opportunity to install either the current level of Red Hat Enterprise Linux (6.0) or the current level of Novell SuSE Linux Enterprise Server (SLES 11 SP1) in a SCSI FCP environment. Each student will have their own System z virtual machine to install the distribution of choice in. If you have not yet worked with the latest levels of these distributions in the context of System z, this is your opportunity to experience first hand the Linux installation process. Once the basic installation is completed, additional exercises will take you through the process of adding FCP SCSI LUNs to your running system, and configuring those LUNs into a multipath logical volume.

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Monday 9:15 AM

U1 z/VSE Performance Roundtable systems – DataSpaces, Virtual Tape use

Speaker: Pete Clark, CPR Systems

Moderator: Billy Bingham

Ken Meyer, CA Technologies

Martin Trubner, Pi-GmbH

Mike Poil, IBM Hursley

A roundtable discussion on z/VSE performance hints and tips presented by users. Discussions will include use of DataSpaces, Virtual Tape, and other performance parameters. Discussions will also include z/VM parameters and how it relates to z/VSE.

U2 Linux on System z – the Central Hub

Moderator: Rich Smrcina

Speaker: Wilhelm Mild, IBM

Establish Linux as Central hub in your enterprise. Come and see how other customers did reorganize their solutions using Linux on System z. It's all real and tells you how you could do it as well

U3 zVM and TS1120/30 Tape Encryption

Moderator: Hans Rempel

Speaker: Steve Wilkins, IBM

Cancelled due to weather

U3 What's New in z/VM I/O Support?

Moderator: Hans Rempel

Speaker: Bill Bitner, IBM

New features have been added to the z/VM Control Program, whether by APAR or just included in the newest release that involve new I/O devices and concepts. This presentation will take a more in-depth look at these capabilities, their benefits, what is needed to use them and the "ins and outs" of how they can be invoked. A basic understanding of z/VM Device Support would be helpful as this presentation will build on that knowledge, though is not necessarily required.

V1 We get by with a little help from our friends!

Thigpen Enterprises

TEI has been working with you for years with our VSE2PDF and Dino/Protect products. And now we want to do even more. Our new VSE2PDF/Lite product can provide simplified PDF production output for your company. With our BSI partnership, we now offer on-site consulting and conversion services. Come to this session and learn how we can help you get current, stay current and be positioned for a great future with z/VSE.

V2 Join the VM VSE Tapeless Revolution

Speaker: Scott James, Luminex

Hear from a current VSE customer how they implemented MODERN Mainframe Virtual Tape (disk-based) and dramatically reduced their physical tape use, improved their backup and disaster recovery plan and improved their overall tape operations. We'll also share our experience with implementing the solution for other VM and VSE data centers, which have gone tapeless, utilizing Luminex's innovative Channel Gateway MODERN Mainframe Virtual Tape solution to replace legacy physical tape drive

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products. You'll learn how you can achieve these goals without making any changes to your current mainframe tape applications or processes.

Lab: **Installing Red Hat 6.0 or SuSE SLES 11 SP1 in a System z FCP Environment Hands-on Lab Part 2 of 3**

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

This is a continuation of the lab that started at 8:00 AM.

Monday 10:30 AM

U1 Cost Effective Tape Vaulting

Moderator: Ken Meyer

Speaker: Kevin Corkery, Cor Co Consulting
Tom Duerbush of THD Consulting

Is it now possible to set up a cost efficient off-site backup systems using TCP/IP and software already included with z/VSE? This session will present the experiences of two VSE site currently working toward such a setup. It will be followed by an open discussion of some of the options available.

U2 Data Center Efficiency and the Bottom Line

Moderator: Tony Thigpen

Speaker: Kevin Donovan, DOE

Building a Better Data Center has positive impacts on environment and the bottom line. The presentation will explore the techniques that can be employed to improve Data Center efficiency and what the positional economic impacts are. The presentation will address Data Center Best Practices and 10 Things You Can Do Now to improve your Data Center.

Kevin Donovan is the Data Center Manager for The National Renewable Energy Laboratory, Department of Energy.

U3 z/VM and the zEnterprise System zManager

Moderator: Hans Rempel

Speaker: Miguel Delapaz, IBM

In this presentation we will discuss how z/VM interacts with and is managed by the zManager component of the zEnterprise System.

V1 z/VSE goes Android. Live Demo

Speakers: Chris Behrends- MACC, Ingo Franzki - IBM and Wilhelm Mild - IBM

This session will illustrate the flexibility of z/VSE Connectors to use Android on your Cell Phone or Tablet PC to access z/VSE and what you need to develop applications for it.

We will show a live demo how Android can access z/VSE.

V2 Disaster Recovery Planning with Virtual Tape

Speakers: John Sawyer and Brad Rice, SecureAgent

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Want to reduce backup times? Want to encrypt your tape image data going off-site? Want a better, more efficient way of handling Disaster Recovery?

SecureAgent provides an end-to-end backup and recovery solution for z/VM and z/VSE (as well as for other mainframe operating systems, for open systems and for the AS/400 environment). The Secure Data Solution (SDS) is a virtual tape system that allows organizations to cost-effectively write and retrieve virtual tape images both locally and at a remote location(s). The SDS appears as tape devices to the host, for example, as 3480, 3490 or 3590 tape drives. The SDS provides mainframe connectivity via ESCON or FICON and open systems/AS400 connectivity via FC/SCSI, and seamlessly integrates to your environment, whether working with Dynam-T, EPIC or even without a tape management system. All tape images are compressed and encrypted, so data security is provided and the need for handling real physical tape can be eliminated as has been done with various VSE users that participate at WAVV. A single operator can remotely manage the entire Secure Data Solution (all sites) including having the master console for the host to IPL at the remote site once a restore has been done. Moving to the Secure Data Solution is extremely easy and cost-effective, especially when utilizing the solution for DR activities, data center relocations, and migration from physical tape. Please join us to hear how the SDS has benefited some of your peers at WAVV and learn more about how the SDS could fit into your production and DR plans. We also look forward to visiting with you in our SPLASH booth!

Lab: Installing Red Hat 6.0 or SuSE SLES 11 SP1 in a System z FCP Environment Hands-on Lab Part 3 of 3

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

This is a continuation of the lab that started at 8:00 AM.

Monday 11:45 AM

U2 HyperPAV and Large Volume Support for Linux Moderator: Jeff Barnard
Speaker: Sven Schuetz, IBM

This session will introduce the concepts of Parallel Access Volumes (PAV) and will explain how PAV and the new Hyper PAV feature are supported in Linux on z Series. The second part of the session will explain how Large Volumes (ECKD volumes with more than 65520 cylinders or 45GB storage capacity) are supported.

U3 Introduction to z/VM Performance Moderator: Hans Rempel
Speaker: Bill Bitner, IBM

If you are just getting started understanding z/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 also provide pointers to additional information so that you can learn even more on your own.

V1 Virtual Justice - Using z/VSE and Linux on System z

Speaker: Mike Riggs, Supreme Court of Virginia

Mike Riggs, Manager of Systems and Database Administration, will share his experiences using z/Linux, z/VM and z/VSE on System z. He will describe the processes in place that exploit z/Linux to

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maintain an up-to-date mainframe environment utilizing WebSphere and Java applications in concert with traditional z/VM and z/VSE applications. Being able to orchestrate a productive harmony utilizing various platform application systems on zLinux enables this state-wide judicial application system to maintain the distinction as one of the finest in the country.

V2 **The Modernization Imperative by Treehouse Software, Inc.**

Treehouse Software discusses deciding the future of your mainframe applications, and transforming those applications to modern technologies.

Monday 12:45 PM **Lunch in Vendor Room**

Monday 3:00 PM

U1 **Integrating z/VSE into an Identity Management System using LDAP**

Speaker: Ingo Franzki, IBM

Moderator: Gil Porter

This presentation will illustrate how to integrate z/VSE into an enterprise-wide Identity Management System using the new LDAP Sign-on Support (LDAP Client) in z/VSE 4.2 and 4.3. It focuses on options and benefits Ingo will cover basics of Identity Management Systems and LDAP Directories. This session provides implementation details about z/VSE LDAP Sign-on support, including new the LDAP Batch sign-on and LDAP UI Dialogs now supported with z/VSE 4.3.

U2 **Secure Cloud Computing with Linux on System z**

Moderator: Rich Smrcina

Speaker: Siegfried Langer, IBM

Cloud Computing is a trend, a methodology, and an architecture that provides new options for IT optimization from enhanced systems management and provisioning to outsourcing of services. One of the key concerns regarding Cloud deployments is the aspect of security in a broader sense.

This session will talk about the advanced capabilities available with Linux on System z and ways of making first steps into the Cloud in a secure and controlled fashion.

U3 **z/VM Single System Image and Guest Mobility Preview**

Moderator: Steve Southerland

Speaker: Bill Bitner, IBM

IBM has issued a Statement of Direction describing its intent to permit multiple z/VM Systems to collaborate in a Single System Image cluster, and to allow a running guest to be moved from one member of a cluster to another with Live Guest Relocation. This presentation provides a preview of these enhancements.

V1 **IPv6/VSE and z/VSE**

Barnard Software

IPv6? What's that? Why do I need it? Does z/VSE support it? Come hear Jeff Barnard of Barnard Software, Inc. discuss IPv6, IPv6/VSE, IPv6 support in z/VSE and transitioning to IPv6.

V2 **Baer Consulting**

U1 – Gold Camp

U2 – Pikes Peak I & II

U3 – Pikes Peak IV

U4 – Summit Ballroom

V1 – Centennial

V2 – Pikes Peak III

Lab – Foothills

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Join Baer Consulting, Inc. as they discuss their business and partnerships with SecureAgent and Viador. We will discuss SecureAgent's SuperVision and SA SDS offering and our recent partnering with Viador in developing zReporter. zReporter has the ability to report on z/VSE and z/OS performance data.

Monday 4:15 PM

U1 WAVV Requirements Discussion

Moderator: Karl DeVore

Change the future, become a force to be reckoned with, submit a requirement. Do not just sit there participate. The WAVV Requirement process is initiated by the user submission of a requirement. The requirements are reviewed in this session, discussed, voted on and then submitted to the product vendor. This has to be one of the more valuable sessions at WAVV.

WAVV accepts requirements against all products and vendors.

U3 z/VM PAV and HyperPAV Support for z/VM

Moderator: Steve Southerland

Speaker: Steve Wilkins, IBM

Cancelled due to weather

this presentation covers details of the PAV minidisk support initially 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 V5.3 (and later). 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 V5.4 and z/VM V6.1 provide support of HyperPAV volumes as linkable minidisks for guest operating systems.

Monday 5:30 PM

U1 A CICS Health Check

Moderator: Karl DeVore

Speaker: Mike Poil, IBM

Do you have a healthy CICS environment? This session starts by identifying the components that can affect the successful operation of a CICS environment, and hence could be the subject of a Health Check. For example: Topology, Availability, Performance, Monitoring and Maintenance.

It then looks in detail at the some of these areas, with practical advice on what to look for and how to choose appropriate configuration settings, and some CICS internals are thrown in for good measure. For example:

CICS is dependent on the hardware and the z/VM and z/VSE environments that are in place; how do you assess the effectiveness of what you have, and how can they be configured to best help CICS and even other parts of z/VSE?

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What about CICS configuration options?
What is the effect of multiple cpus on CICS, especially for MRO and ISC?
How can you optimize the use of Getvis storage for CICS?
Why should dumps in CICS be avoided if possible?
How is CICS performing on a daily basis and over time, what do you need to assess this?

U2 Networking with Linux on System z Moderator: Steve Dunnivant
Speaker: Sven Schuetz, IBM

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 and HiperSockets. You will learn how to configure a network device manually and how to configure a network device automatically in Red Hat and Novell distributions. The presentation will end with more advanced network topics such as channel bonding.

U3 z/VM Performance Case Studies Moderator: Steve Southerland
Speaker: Bill Bitner, IBM

This sequence of short presentations illustrates a number of different situations and problems we've seen as we've handled various z/VM performance questions. The sequence starts with a review of how to collect MONWRITE data, which is crucial to analyzing performance concerns. It then moves to studies of systems that are performing well and others that are not performing so well. Analysts' findings are illustrated using various reports from z/VM Performance Toolkit.

V1 Linux Enterprise High Availability Extension and the SUSE Linux Enterprise Mono Extension
Speaker: Mike Friesenegger – Novell Moderator: Rich Smrcina

Come learn about and see the High Availability Extension and the Mono Extension in action.

The SUSE Linux Enterprise High Availability Extension is included with a SUSE Linux Enterprise Server for System z subscription. The extension includes a high-availability solution, a cluster-aware logical volume manager, a clustered file system and user centric tools to manage the cluster.

The SUSE Linux Enterprise Mono Extension enables the deployment and execution of ASP.NET applications to Linux on System z. This extension might be the new workload you are looking to deploy on Linux on System z!

Monday 07:00 PM – 11:00 PM Summit Ballroom

***Splash* Special People Love a Special Happening.**

Food, drinks and especially interesting conversations. Come early, stay late, ask questions, get answers, give opinions, but do not miss SPLASH.

Tuesday April 19, 2011

Tuesday 8:00 AM

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U1 **Business Resiliency: It's about High Availability and Disaster Recovery**

Speaker: Wilhelm Mild, IBM

Moderator: Gil Porter

Considerations for z/VSE, z/VM, and Linux on System z regarding business resiliency. New z/VSE 4.3, new Disk System functions can increase the reliability and data consistency. Distinguish between high availability of your databases and Disaster Recovery of your entire IT environment.

U2 **z/VSE VTAPE Update and Usage**

Speaker: Ingo Franzki, IBM

Moderator: Billy Bingham

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

U3 **Migrating to Multiple SSL Server Support for z/VM**

Speaker: Miguel Delapaz, IBM

Moderator: Hans Rempel

NOTE: This session will be in Pikes Peak III

SSL Support for z/VM has seen extensive and exciting changes. From the move to a CMS-hosted server machine, to the use of AES cipher suites for encryption and decryption, to new certificate management practices, z/VM SSL server continues to grow in functionality. You will hear about the services available with the z/VM SSL server: its configuration and use, the management of certificates, capacity planning and debugging tips.

Tuesday 9:15 AM

U1 **First Capture Analysis – skills for Level 2 CICS Support Part 1 of 2**

Speaker: Bob Sodan, IBM Level 2 CICS Support

Moderator: Karl DeVore

Bob Sodan of CICS Level 2 Support Center will be presenting on a number of topics this year. There will be an update and brief example of the First Gather Internet site to help ensure the correct documentation is received the first time. Next we will go over a lot of the basic CICS commands and tools, and their uses in problem determination and debugging. Simple things such as CEMT I AUX, CEMT I DUMPDS, starting, stopping AUX trace, switching AUX trace files (before you start the AUX so they are clean), printing AUX files, processing dumpdatasets, CEMT S commands, suggested sizes for AUXTRACE (A & B), Dumpdatasets (A & B), CEMT S TRD (xxxx) SYSMAX(1) ADD, CEMT I INTTRACE, CEMT P SNAP/DUMP (their usage and repercussions). Usage of the VSE DEBUG command in conjunction with other tools and basic discussion on SDAIDS trace – setup requirements (from a VSE perspective) finding the location of a program in storage and setting up a Storage Alteration trace, STARTSD / STOPSD, command.

U2 **Extreme Virtualization**

Speaker: Siegfried Langer, IBM

Moderator: Steve Southerland

Virtualization technologies are becoming a common technology to increase flexibility and resource utilization. However, there are big differences between implementations. The session will focus on the advanced virtualization capabilities of z/VM as the hypervisor for Linux on System z. Differences to other virtualization technologies like VMware or Hyper-V will be covered in general.

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Tuesday 10:30 AM

U1 First Capture Analysis – skills for Level 2 CICS Support Part 2 of 2

Speaker: Bob Sodan, IBM Level 2 CICS Support

Moderator: Karl DeVore

Now that we have captured the documentation needed to debug and solve the problem we need to get it to LEVEL 2 support. Bob will present an updated step by step instruction process to ensure the correct documentation is getting to the Support Center. The remaining time will be dedicated to an overview of the domain structure and function.

U2 zPDT: Advanced Topics and Demo

Speaker: Klaus Goebel, IBM

Moderator: Steve Dunnavant

The IBM System z Personal Development Tool (zPDT) is a new technology from IBM that enables a virtual System z10 architecture environment on a Lenovo Thinkpad or IBM System x server. zPDT is only available for application development purposes. IBM customers can get it as part of the Rational Developer for System z Unit Test (RDz UT) feature, currently only available for z/OS users. This session describes some advanced topics and some additional hints & tips about zPDT and RDz UT.

The session also includes a live demo of zPDT and/or RDz UT on a Thinkpad.

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