

WAVV Agenda



Covington KY
April 9 – 12, 2010

WAVV Committee

Requirements:

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

User Groups:

Ron Campbell, IBM Canada
Pete Clark, CPR Systems

Vendor Relations:

Pete Clark, CPR Systems

IBM Representatives:

Alan Altmark
Siegfried Langer
Julie Liesenfelt

CICS:

Karl DeVore, Lake County
Ken Ripple, ADI/Honeywell
Dave Stuart, County of Ventura

Data Management:

Juan Alegria, CSI International
Billy Bingham, St. John Medical Center
Keith Johnson, CSI International
John MyCroft, CSI International

e-Business and Multi-Platform Computing:

Futures / Directions:

Eric Vaughan, illustro Systems
Rich Smrcina, VM Assist

Hardware:

Aubrey Hayes

LINUX:

Jeff Barnard, Barnard Software, Inc.
Rich Smrcina, VM Assist

Network Computing:

Steve Dunnivant, Cendant Timeshare
Debbie Henderson, Hanes
Hans Rempel, HMR Consultants

Performance:

Billy Bingham, Baer Consulting
Ken Meyer, CSI International
Gale Peterson

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:

Pam Lovely, Skyline Corp.
Steven Southerland, Ceridian

Staff:

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

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Friday April 9, 2010

Attendee Registration – 2nd floor in the Convention Center

02:00 PM – 9:00 PM Registration Meeting Room 1

06:00 PM – 6:45 PM WAVV Committee Embassy Suites – Captains View
All WAVV Committee Members please attend.

Embassy Suites – Roebling 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. The right way to begin WAVV.

Saturday April 10, 2010

All meetings, not marked otherwise, will be in the Convention Center

Attendee Registration

07:00 AM – 7:00 PM Registration Meeting Room 1

Saturday 8:00 AM

U1 **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

U1 **IBM Update** Moderators: Pete Clark and Charles Rice

Speakers: Klaus Goebel, Siegfried Langer, Alan Altmark

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 2009.

Saturday 10:30 AM

U1 **System z lives and gets vitalized continuously - 'Ten years of Linux on System z' is a perfect example**

Speaker: Dr. Karl-Heinz Strassemeyer. IBM Executive Moderator: Eric Vaughan

Karl will describe the most important vitalization projects of System z in the recent past and the future. He will use the ten-years-birthday of Linux on System z as a perfect example on how to make important things happen. This will include remembering the exciting events ten years ago as well as celebrating the major milestones towards success.

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U2 Looking into the Cloud Moderator: Debbie Henderson
Speaker: Siegfried Langer, IBM

Cloud Computing – hype or reality? A general overview about Cloud Computing, the current offerings, implementation status, and vision.

U3 Modern application development for z/VSE Moderator: Chris Behrends
Speaker: Wilhelm Mild, IBM

This session shows how you can develop modern applications in your enterprise with one single tool and how you can profit from open platform knowledge to implement solutions for z/VSE and Linux on System z.

Saturday 11:45 AM

U1 10 years of Linux on System z Moderator: Julie Liesenfelt
Speaker: Bill Reeder, IBM

In December 1999 IBM released the first Linux code drop to the Open Source community. This was the start of a great growth story.

U2 Cloud Computing with z/VSE Moderator: Debbie Henderson
Speaker: Wilhelm Mild, IBM

Offering Cloud services to z/VSE users in your enterprise. What is possible? How can z/VSE participate?

U3 z/VM Platform Update Moderator: Steven Southerland
Speaker: Alan Altmark, IBM

This session will provide you with the latest & greatest information about z/VM. We will discuss support dates, changes to z/VM V5.4, z/VM V6.1, and the Statements of Direction for Single-System Image and Live Guest Relocation.

Saturday 12:45 PM Lunch on Your Own

Saturday 1:45 PM

U1 z/VSE Tools Overview and Update Moderator: Gil Porter
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

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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.

U2 Linux on System z Update: Current & Future Linux on System z Technology

Speaker: Hans-Joachim Picht, IBM

Moderator: Jeff Barnard

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

U3 z/VM Performance Primer

Speaker: Jon vonWolfersorf, IBM

Moderator: Julie Liesenfelt

Want to know everything there is to know about z/VM performance? Well, I hope you won't be disappointed, but we can't cover everything in only an hour! However, you will learn the foundation and tools you need to tackle various performance problems. This presentation will cover configuration guidelines, monitoring, and tuning. Lots of pointers to additional information will be given so that you can learn even more on your own.

Saturday 3:00 PM

U1 System z Hardware Exploitation in z/VSE

Speaker: Ingolf Salm, IBM

Moderator: Gil Porter

z/VSE V4.2/3 supports several new hardware functions and enhancements like PAV, SCSI, OSA, Crypto, FlashCopy, and more. This session will explain the value they can bring to your environment.

U2 Linux Installation Planning

Speaker: Mark Post, Novell

Moderator: Rich Smrcina

As with a lot of tasks, installing a Linux system can be pretty easy, once you know what you're doing. Stubbing your toes on all the gotchas along the way can be very frustrating. In this session, we'll be talking about the things you need to know and consider before you get started, including:

- * Deciding which architecture might be best for the applications you will be running
- * Laying out the system structure
- * Networking requirements for installation
- * Preparing the installation media

And more.

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U3 z/VM Security and Integrity
Speaker: Alan Altmark, IBM

Moderator: Steven Southerland

IBM System z customers are familiar with the isolation, security, and integrity features that the hardware provides. However, many customers using z/VM for the first time are new to the world of Virtualization and seek reassurance not only that multiple virtual servers can share hardware resources efficiently, but that they run in a secure environment and comply with organizational IT security policies. This presentation is an overview of the security and integrity characteristics of z/VM. We will discuss how a secure environment is created, customer concerns and responsibilities, and IBM's commitments, including Common Criteria certification.

V1 IPv6/VSE and z/VSE
Barnard Software

Come to the BSI Vendor Session and hear about IPv6/VSE. What is it? What's in it for me? Jeff Barnard and Tony Thigpen will discuss BSI's IPv6/VSE product now available from both BSI and IBM!

Saturday 4:15 PM

U1 z/VSE Update and Outlook
Speaker: Siegfried Langer, IBM

Moderator: Gil Porter

Overview on z/VSE plans, including the next release. It will cover z/VSE status, content, strategy and directions. Specific focus will be on the next release, z/VSE Version 4 Release 3.

U2 zLinux security
Speaker: Hans-Joachim Picht, IBM

Moderator: Jeff Barnard

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 Securing z/VM: The Road to EAL 4
Speaker: Alan Altmark, IBM

Moderator: Steven Southerland

z/VM has twice received a Common Criteria security certification for CAPP and LSPP to EAL 4+. Come to this presentation to really learn what all those letters mean and how to configure CP and the RACF Security Server to enable you to meet those requirements in your own shop.

Saturday 5:30 PM

U1 z/VSE Security – Best Practices
Speaker: Ingo Franzki, IBM

Moderator: Tony Thigpen

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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.

U2 Managing Linux on z/VM Moderator: Rich Smrcina
Speaker: Rich Smrcina, Velocity Software

Managing Linux on the mainframe requires capacity planning, performance analysis, chargeback and operational support. This presentation discusses technologies that can be used to accomplish it all effectively.

U3 Getting Started with RACF on z/VM Moderator: Julie Liesenfelt
Speaker: Bruce Hayden, IBM

Activating and customizing the RACF Security Server feature of z/VM is a process with several steps, a few decisions, and some new things to learn. But, your reward is a more secure z/VM system! This presentation will start at the beginning of the process and take you through all the steps needed to activate RACF. Also, it will offer several suggestions and shortcuts for configuration that you can use on your own system. In the end, you will have RACF up and running on your z/VM system.

Embassy Suites – City View 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 11, 2010

Attendee Registration

07:30 AM – 5:00 PM

Registration

Meeting Room 1

Sunday 7:00 AM

V2 Prayer and Praise

A special non-denominational celebration on Sunday morning.

Sunday 8:00 AM

U1 Use KEY15 Instead Of KEY0 And Win

Moderator: Martin Trübner

Speaker: Gil Porter

This is a session by an installation that uses bare bone VSE and some subsystems. We had tables in memory that needed to be shared across partitions. We put them in system getvis (KEY0 protected memory) and encountered performance problems. I changed a shared (system getvis) in-memory database from using storage KEY 0 to storage KEY F. This significantly reduced overhead of going into and out of KEY 0, not to mention the single threaded nature of being in KEY 0. This was done in

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assembler language, so the attendees would need a working knowledge of assembler. I will be happy to share how we did this, and even share the assembler code.

- U2 More CICS/TS Problem Determination and Tips – New ideas from CICS Level 2 Support – Part 1**
Speaker: Robert Sodan, IBM, Level 2 CICS Support Moderator: Ken Ripple

Do you know there is an Internet site devoted to known problems and their solution? Do you know what the most common problems CICS/TS and CICS/VSE customers are experiencing at the current time? Would you like to learn more about the various debugging techniques used to solve problems? Bob Sodan of the IBM CICS Support Center will be providing all the details about the newest Internet tool for our customers. The debugging topics will include abends, CICS waits, and hangs. There also will be storage tuning hints and recommendations based on known problems.

This presentation will provide a lot of opportunity to discuss real customer problems and what can be done to get them resolved. Come out and meet Bob, and learn how things are done from a CICS Level 2 support perspective. Part 2 of this presentation will follow immediately in the next session at 9:15.

- U3 Managing z/VM: Use the Free Utilities You Have Already!** Moderator: Steven Southerland
Speaker: Bruce Hayden, IBM

Your z/VM system included a several system management utilities that you may not know about. They are easy to set up and they can help you, the systems programmer, manage your new system. In this session you will learn what these utilities can do, how to configure them, how to use them, and what other alternatives exist. The CMS Utilities we will discuss are AUDITOR, SFPURGER, DIRMAP, the DCSS tools, and more.

- Lab: Running z/VM to Host Linux - Installation and Customization - Part 1 of 4**
Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

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 hands-on lab is designed to begin the process of developing z/VM system programming skills. The workshop 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 V6.1 system running in a virtual machine to configure and work with.

Sunday 9:15 AM

- U1 z/VSE Internals (deep dive)** Moderator: Gil Porter
Speaker: Ingolf Salm, IBM

Get an insight into functional details of z/VSE with emphasis on z/VSE V4.2/3 and selected enhancements.

- U2 More CICS/TS Problem Determination and Tips – New ideas from CICS Level 2 Support – Part 2**
Speaker: Robert Sodan, IBM, Level 2 CICS Support Moderator: Ken Ripple

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This is part 2, of a two-part session that began at 8:00 AM. See the Sunday 8:00 abstract for more details on session content. Even if you were unable to attend Part 1 due to a conflict, feel free to attend Part 2 as Bob has a wealth of information to share.

U3 IBM Rational Developer for System z in Action Moderator: Chris Behrends
Speakers: Ingo Franzki + Wilhelm Mild, IBM

This session will demonstrate Open Source 'Eclipse' technology. It includes advanced editing, syntax highlighting, error reporting, and integrated change management. Come see how the Eclipse environment applies to COBOL and PL/I development for z/VSE using the IBM Rational Developer for System z. See how the same open platform applies to development of Java and Linux applications as well.

V1 Mainline

V2 TCP/IP for VSE Update and Other Items of Interest
CSI International

IPv6 is on the way... How will your applications need to change? Will they even need to change? What does CSI's BIFF (Big Improvements For Free) project mean for you? Would you like easily encrypted connections? How about automatic translation? Would you like to find out where we buy our question marks? Answers to all of these question and more, presented in full color 1080P (240 Hz), 7.1 Dolby Digital True HD sound, 16:9 aspect ratio, and realistic 3-D (we don't charge for the glasses)!

Lab: Running z/VM to Host Linux - Installation and Customization - Part 2 of 4
Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

Please see part 1 at 8:00 AM for more details.

Sunday 10:30 AM

U1 High Availability and Disaster Recovery Moderator: Billy Bingham
Speaker: Wilhelm Mild, IBM

Considerations for z/VSE, z/VM, and Linux on System z for business resiliency. New Disk System functions can increase the reliability and data consistency.

U2 Cloud Computing Security
Speaker: Alan Altmark, IBM

A discussion of the security characteristics of cloud computing environments, focusing on the very real concerns of both cloud consumers and cloud providers.

U3 CEETrace Moderator: Martin Trübner
Speaker: Kevin Corkery

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After long absence of COBOL.FLOW, LE programs now have with CEETRACE a feature that offers even more.

Kevin will talk about his experience installing it, testing it and getting application programming to use it.

If time allows, Martin will chime in with bits and pieces that come with the CEETRACE that are not so obvious.

This is the session for those that use PLI or COBOL or both.

V1 "VSE2PDF - Features and Benefits"

Speaker: Tony Thigpen, Thigpen Enterprises

Is it time to cut your report distribution costs? Time to improve the look of mainframe report? Come see how we can help you save money while improving the appearance of the mainframe.

V2 Stay hip. Stay modern. Build a hybrid.

Speaker: Craig Moody, LRS IT Solutions

Now that you're five years into a three-year migration off your mainframe, and the application solution management purchased is not making things any easier, what is the next step? We will discuss using VSE tools to create a 'hybrid' environment. Use the strength of VSE and OPEN to provide solutions for your business. Exploit the strength of zSeries and OPEN. Discuss the costs look at sample TCO's .

Lab: Running z/VM to Host Linux - Installation and Customization - Part 3 of 4

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

Please see part 1 at 8:00 AM for more details.

Sunday 11:45 AM

U1 Bringing you up-to-date with VSAM in z/VSE 4.2 and z/VSE 4.3 outlook

Speaker: Stev Glodowski, IBM

Moderator: Kevin Corkery

VSAM has implemented quite a number of changes within z/VSE 4.2. Find out about all of them including IXFP Flashcopy exploitation, the new cluster name concept, backup/restore enhancements, the first VSAM Prodxit and more. We will also discuss the latest service level and give an outlook on what's coming for VSAM with z/VSE 4.3.

U2 Server Consolidation – first step to a Private Cloud

Speaker: Siegfried Langer, IBM

Infrastructure services on demand and fast deployment are characteristics of Cloud Computing. Consolidation and standardization are prerequisites. Learn why the IBM Enterprise Linux Server is an ideal system for Linux cloud services.

U3 DS6800 DASD Sub System, Maintenance and DR planning

Speaker: Ed Martin

Moderator: Billy Bingham

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V1 “Can Your Mainframe Tweet? With illustro’s new z/Ware product, it can!!”

illustro has always been dedicated to delivering innovative technology for VSE users and showcasing it at WAVV, and this year is no exception.

Come to our session for an update on our most recent software creations, including our new z/Ware Version 2.0 product, which uses simple Web Services to actually “Tweet-enable” your mainframe. We will demonstrate how your mainframe can report on what’s going on, including job success/failure and other system events, now even through Twitter, so you can monitor your mainframe from everywhere! This is just one of the features of the completely re-architected Internet-enabling software that illustro has been delivering for mainframe customers for over 10 years!

We will also provide updates on the latest enhancements in z/IPMon, our comprehensive performance and problem manager for TCP/IP, including the new Advisor feature which automatically tells you if something is wrong in your TCP/IP system, without you having to do anything!

Come and see the newest ways your VSE system can take advantage of all of the latest technology!

V2 The Modernization process of your VSE System with a special focus on the Data Layer, zLinux and Cloud Computing

Speaker: Peter Brodsgaard, The aMod

This session focuses on how you can modernize your infrastructure by using data replication and synchronization technology between your zVSE mainframe data structures and Open Systems Platforms, including the zLinux and DB2 platforms. Customer testimonials will be an integral part of this presentation..

Lab: Running z/VM to Host Linux - Installation and Customization - Part 4 of 4

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

Please see part 1 at 8:00 AM for more details.

Sunday 12:45 PM Lunch in Vendor Room

Sunday 3:00 PM

U1 z/VSE Performance Update
Speaker: Ingo Franzki, IBM

Moderator: Billy Bingham

This session will share the latest on z/VSE V4.2 performance. The information presented here may be useful in managing your own overall performance, including distributed environments. For example, how does z/VSE V4.2 compare with prior versions/releases of VSE? What are the performance implications of z/VSE and Linux mainframe environments? What about new z/VSE V4.2 functions?

U2 Transitioning to IPv6

Moderator: Tony Thigpen

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Speakers: Tony Thigpen, TEI and Jeff Barnard, BSI

Moving to IPv6 is not just simply 'plopping an IPv6 stack on VSE'. There are many other issues involved. This session will discuss the non-VSE areas such as infrastructure, firewalls, requesting an address, tunneling options, and other items that need to be understood for a smooth migration to IPv6.

U3 Virtual Security Zones

Speaker: Alan Altmark, IBM

Moderator: Steven Southerland

In multi-tier network applications, there is usually the concept of "zones" that each contain a set of servers. Each zone 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 zones and to integrate virtual servers into your existing zones. 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.

V1 Eliminating the Barriers: Bringing z/VM Administration to the 21st Century

Velocity Software

The skills needed to administer a z/VM system are typically acquired over a period of many years. Bringing new people in to the fold can be challenging when all they think about when they hear 'mainframe' is green screen. Experienced admins from other platforms might be turned away by having to learn yet another set of commands and a terminal interface. Other virtualization platforms compete for mind share via sexy GUIs.

This presentation will slide-show/demo (depending upon network availability) a project that provides cloud enablement for z/VM and will allow the administration of a z/VM system from a web browser.

V2 Fischer International

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

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM and Mark Post, Novell

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.

Sunday 4:15 PM

U1 Performance Tuning of z/VSE Applications working with Linux on System z

Speaker: Ingo Franzki, IBM

Moderator: Billy Bingham

Today, many z/VSE applications are closely connected to applications and servers running on Linux on System z. Examples are applications using z/VSE's DB2 Client, VSAM Redirector, Web Services & SOA, CTG, Connectors, etc. This session will discuss some of the typical pitfalls of such distributed

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environments and its performance implications to your z/VSE applications. You will hear hints and tips how to tune such environments and how to avoid pitfalls.

- U2 Handling Limit Conditions in CICS TS** Moderator: Karl DeVore
Speaker: Eugene Hudders, C\TREK Corporation

This session provides recommendations as to what should be done when the system alerts you that a limit condition has been reached. Limit conditions are objectives that are set by the user to control resource usage by CICS TS. Some of the more known limits are MXT and string assignments for a VSAM file. The session will cover what actions should be taken before the limit is raised.

- U3 Advanced Configuration and Auditing with RACF on z/VM** Moderator: Julie Liesenfelt
Speaker: Bruce Hayden, IBM

Now that you have RACF for z/VM installed and running on your system, what do you need to know about configuring and using it? How do you use the audit facilities and how do you create reports? This session will cover a variety of topics, including protecting a VSWITCH with RACF, using RACF groups, controlling shared user ids, using DIRMAINT with RACF, and set up and use of the audit facilities.

- V1 “Can Your Mainframe Tweet? With illustro’s new z/Ware product, it can!!”**

illustro has always been dedicated to delivering innovative technology for VSE users and showcasing it at WAVV, and this year is no exception.

Come to our session for an update on our most recent software creations, including our new z/Ware Version 2.0 product, which uses simple Web Services to actually “Tweet-enable” your mainframe. We will demonstrate how your mainframe can report on what’s going on, including job success/failure and other system events, now even through Twitter, so you can monitor your mainframe from everywhere! This is just one of the features of the completely re-architected Internet-enabling software that illustro has been delivering for mainframe customers for over 10 years!

We will also provide updates on the latest enhancements in z/IPMon, our comprehensive performance and problem manager for TCP/IP, including the new Advisor feature which automatically tells you if something is wrong in your TCP/IP system, without you having to do anything!

Come and see the newest ways your VSE system can take advantage of all of the latest technology!

- V2 Migrate *and* leave data behind on the mainframe!**
Speaker: Walter Sweat, Alchemy Solutions

Alchemy Solutions is proud to participate in WAVV 2010. As a migration and modernization company, we often encounter companies who want to move at least part of their applications off of the mainframe in order to prevent an increase in MIPS. This option gives them the chance to selectively move some part of their application inventory off to a less expensive platform, yet still keep their valuable business logic in place. But what about data that needs to be accessed by applications that are going to be

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migrated *and* by applications that are *not* going to be migrated? Up until now, that has been a huge dilemma for companies that are looking to reduce MIPS.

As an answer to this very challenging issue, Alchemy Solutions is proud to introduce and demonstrate NeoData zLink. zLink gives companies the ability to migrate some portion of their applications off the mainframe and *still* be able to access the VSAM data that remains on the mainframe. This way, the migrated applications can share data with applications that are not yet ready to be migrated, or that may never be candidates for migration. Migrated applications can selectively access VSAM data that has been moved to SQL Server (without changing your application code at all!) *and* VSAM data that is still stored on your mainframe.

Please join us as we demonstrate this very exciting new technology on Sunday at 4:30 in room 5. We look forward to seeing you there!

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

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM and Mark Post, Novell

Please see Part 1 at 3:00 PM for more details.

Sunday 5:30 PM

U1 An Open Discussion on IP Programming

Moderator: Tony Thigpen

Speaker: Forum

Are you currently programming IP applications? Are you contemplating programming your own IP application? Are you just curious about IP programming? This is your chance to sit around and talk IP programming.

This will be an open forum discussion relating to all areas of IP programming. Wither it's ASM Sockets, EXEC TCP, or EZA, bring your questions and your experience.

U2 Analyzing CICS TS DFH0STAT reports – Tuning Your System

Moderator: Karl DeVore

Speaker: Eugene Hudders, C\TREK Corporation

IBM supplies the DFH0STAT utility which provides CICS session statistics similar to the old CICS/VSE 2.3 shutdown statistics. In this session, Gene Hudders will discuss and analyze actual production DFH0STAT reports provided by a number of z/VSE sites (actual WAVV member installations). He will review the “Good, Bad and the Ugly”, will touch on all the available reports for DFH0STAT, and will cover everything from MXT, DSA Allocations, Program and Temporary Storage statistics, LSRPOOLS, to CICS Dataspaces. He will point out problem areas, potential bottlenecks, and then will offer some performance recommendations. Bring your DFH0STAT reports with and compare them to the samples in this session. How can you afford to turn down a tuneup like this (especially at someone else's expense)?

U3 Current & Future State of Linux on z

Moderator: Rich Smrcina

Speaker: Brad Hinson, RedHat

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Overview of what's currently available in Red Hat Enterprise Linux, plus a peak at what technology will be available in the near future. Includes details on specific bug fixes and feature enhancements.

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

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM and Mark Post, Novell

Please see Part 1 at 3:00 PM for more details.

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 12, 2010

Attendee Registration

See Bennie Pugh

Monday 8:00 AM

U1 CICS TS development for z/VSE

Speaker: Michael Poil, IBM Hursley

Moderator: Karl DeVore

Michael Poil from the IBM Hursley lab has an extensive background in both CICS TS and VSE. He has been involved with CICS TS in the VSE environment for a number of years and currently serves on the CICS TS Change/Team. In this session, Michael will discuss IBM's position on CICS TS development for z/VSE. If you have an interest in the future of CICS TS, you need to attend this session.

U2 VSAM - Hints & Tips, Limits and Fundamentals

Speaker: Stev Glodowski, IBM

Moderator: Kevin Corkery

This session will provide you with fundamental VSAM knowledge, including limitations, record layout, index structure, compression and more.

U3 System Automation using IBM Operations Manager for z/VM

Speaker: Bruce Hayden, IBM

Come learn about the tools and technology available from IBM for managing your z/VM environment. You can't monitor your system 24 hours a day, so why not have the system monitor itself? Find out what Operations Manager for z/VM can do for you, including interaction and monitoring of guests such as z/VSE and Linux on System z, monitoring spool usage and system events, scheduling events, and system automation. The session will include both presentations and demos. Topics will include system management, automated operations, and monitoring.

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

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

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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 installation portion of the workshop will use FCP attached SCSI LUNs instead of ECKD DASD. Students will also gain experience adding FCP LUNs to the system following installation, and will configure the additional LUNs into a multipath logical volume.

The goal is to equip each attendee with the skills required to return home and install Linux for System z using the distributions from Novell/SUSE, Red Hat, or the binary objects available for download from the Marist College web site.

NEW: The workshop was recently upgraded to the RedHat Enterprise Linux 5.4 level, and the SuSE SLES 11 level. If you have not had an opportunity to work with these distributions or versions, here is a chance to gain that experience.

Monday 9:15 AM

U1 Virtual Tape Systems, with a Disaster Recovery Plan Mindset

Speaker: Ed Martin

Moderator: Karl DeVore

U2 SOA with z/VSE Web Services in Action

Speakers: Ingo Franzki and Wilhelm Mild, IBM

This session demonstrates how existing VSE applications can become Web Services or can use external 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.

U3 When Linux on IBM System z Makes Sense (Cents)

Speaker: Len Diegel / Velocity Software Inc.

Moderator: Rich Smrcina

This presentation includes a review of current trends and challenges across the IT industry, the impact of Cloud computing, and a Total Cost of Ownership (TCO) analyses that compares running Linux on commodity servers (x86) with other solutions including VMware, z/VM, and public virtual solutions. The methodology and formulas used to develop the comparisons are included along with the results of recent migrations from Linux on x86 servers to Linux on IBM System z. The session concludes with real customer experiences and recommendations of proven products for capacity planning, identifying and resolving performance issues, and enablement tools for systems administrators and other IT professionals that make the job of administering Linux on z more doable; information that could mean the difference between a successful implementation or frustration and failure.

V1 BSI Update

Barnard Software

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Knock, knock. Who's there? IPv6. IPv6 who? What? No who. Who has IPv6 for the z/VSE customer? BSI that's who!! Come to the BSI update and hear Jeff Barnard talk about BSI's new IPv6 TCP/IP support and all the latest updates to our TCP/IP-TOOLS solution.

- V2 V5 MDL: The "Tape on Disk" Pioneer for VM & VSE
Speaker: Pratt Parrish, Bus-Tech, Inc.

This presentation will introduce affordable Virtual Tape Solutions for VSE and VM environments based on Bus-Tech's Mainframe Data Library (MDL) family of products. Our solutions are tailored to the needs and budgets of small to medium mainframe environments. Bus-Tech's MDL family pioneered "Tape on Disk" with its introduction in 2002 and continues to be the leader today with more than 850 controllers installed in 18 countries. MDL appears as FICON or ESCON attached 3480, 3490 or 3590 tape drives, and seamlessly integrates into your mainframe environment, tape management system and applications. MDL customers often realize an ROI (Return on Investment) of 6-9 months when replacing aging tape drives, ATLS and VTS. Join us and learn how you too can affordably go "tapeless", while improving response time, availability and reducing operations costs.

- Lab: Linux on System z Installation Hands-on Lab Part 2 of 3**
Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

Please see Part 1 at 8:00 AM for details.

Monday 10:30 AM

- U1 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.

- U2 z/VSE and DB2 on zLinux
Speaker: Wilhelm Mild, IBM

Capacity planning, disk considerations, application considerations and data characteristics; they all play an important role in a solution were z/VSE applications work with DB2 on Linux on System z. It's now documented. A new Redbook and the knowledge you don't want to miss. Get an overview and the essence in this session.

- U3 EZA Programming 106 - IPv6
Speaker: Tony Thigpen

Moderator: Tony Thigpen

With the world turning to IPv6, the EZA interface has been extended to support longer addresses and new functions. This session will take one of the simple client programs presented in the past and show the changes needed to update it for IPv6. The basics will be reviewed for those that have not attended a previous WAVV EZA Programming session.

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V1 **Building z skills for you, an IBM Academic Initiative Update**

Speaker: Marc Smith, IBM

Do the people who work on your System z at the office have 20+ years of experience? Are employees at your company who work on mainframes starting to talk about retirement? Is your company behind on a plan to transfer System z skills before these employees retire? If you answered yes to any of these questions, stop by to hear the latest on how the IBM Academic Initiative, System z program is working to build future skills for you, how you can tap into this new skill pool, and how you can help to build the skills you will need for the future.

V2 **Join the Mainframe Tapeless Revolution**

Speaker: Scott James

Mainframe datacenters are increasingly going tapeless, utilizing Luminex's innovative Channel Gateway Modern Mainframe Disk-Based Virtual Tape solution to replace legacy physical tapes. Mainframe enterprises are looking for ways to improve the reliability and performance of their mainframe data management, backup and disaster recovery processes, and daily tape operations. And now, this goal has become even more important in today's economy which requires datacenters to do more with less, without operational disruptions and with minimal risk. Learn how, with Luminex's Channel Gateways and deduplication, you can dramatically reduce the data you archive and backup by a factor of 10x to 20x or more, make remote data replication for DR practical, eliminate costly and cumbersome physical tape, improve data security and reduce your backup window. Current customer examples will be provided to illustrate the benefits of Modern Disk-based Mainframe Virtual Tape with deduplication.

Lab: **Linux on System z Installation Hands-on Lab Part 3 of 3**

Speakers: Richard Lewis and Jon vonWolfersdorf, IBM

Please see Part 1 at 8:00 AM for details.

Monday 11:45 AM

U1 **Using System z for Workloads You Would Never Have Imagined Five Years Ago**

Speaker: Siegfried Langer, IBM

Moderator: Billy Bingham

Today many System z clients are running applications on the mainframe, they would never have imagined 5 years ago. Ranging from new workloads on System z including SAP and BI to unsurpassed virtualization and consolidation - the IBM System z10 with Linux on System z is a very cost effective and competitive platform for enterprise computing. The presentation will highlight selected application areas and the System z specific values.

U2 **MQ Series for z/VSE – a Production Implementation – User Experience**

Speaker: Robert Johnston, Western Reserve Group

Moderator: Karl DeVore

Robert Johnston from the Western Reserve Group will discuss their robust incorporation of MQ Series in z/VSE. He will talk about their decision to adopt an ESB (Enterprise Service Bus) Architecture and

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why they chose MQ Series for z/VSE. Bob will cover the various planning aspects from sandbox implementation, to MQ classes, to the creation of a development environment. He will talk about recoverability issues, licensing concerns and considerations for naming conventions. Bob will conclude with details about their production implementation and what it takes to support MQ on *many* platforms!

U3 Using Logical Volume Manager (LVM) Moderator: Jeff Barnard
Speaker: Mark Post, Novell

Why using LVM will help the attendee. Basic LVM concepts (physical volumes, volume groups, logical volumes). The actual mechanics of: - Initializing Physical Volumes - Creating Volume Groups - Creating Logical Volumes - Adding/removing Physical Volumes from a Volume Group - Growing/Shrinking Logical Volumes.

V1 IBM

V2 Enhanced Peripherals For VSE/VM
Visara International

Please join us to learn how you can automate and consolidate your console operations; provide cost effective SNI communications without 3745's(NCP) or CCL; and enter the world of Virtual Tape.

Monday 12:45 PM Lunch in Vendor Room

Monday 3:00 PM

U1 Keeping z/VSE current Moderator: Tony Thigpen
Panel: Ed Martin Aultman, Health Foundation
Kevin P. Corkery, Independent Consultant

The panel will address questions from the floor on "The Good, The Bad, and The Ugly" of keeping current on z/VSE.

U2 OpenSolaris on System Z: Technical Update Moderator: Rich Smrcina
Speaker: David Boyes, Sine Nomine Associates

Development on OpenSolaris for System z continues, with a number of new features tracking the OpenSolaris releases for Intel and SPARC. Come here about IPS, new crypto enablement, ZFS improvements, iSCSI, SPARC emulation and much much more. A Surprise in Every Box!

U3

V1 Tape Elimination and DR/Recovery of Mainframe and Open Systems Using Local/Remote Virtual Tape
SecureAgent

By partnering with several well-known DR/Recovery services providers, SecureAgent provides an end-to-end, local and remote backup/recovery solution of z/VM and z/VSE systems (as well as other

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mainframe, open systems or AS/400 environments). The Secure Data Solution® (SDS) is a patented and patent-pending virtual tape system and remote vault that allows an organization to efficiently store and retrieve compressed and encrypted virtual tape images both locally and at a remote location(s). The SDS appears as tape units to attached computer systems; however, in reality, the virtual tape images are compressed and encrypted files residing on disk arrays attached to the SDS. The SDS connects via either ESCON or FICON to mainframes and via FC/SCSI to non-mainframe systems. As virtual tape images are being written to a local SDS, they can also be transmitted to other Secure Data Solutions installed at remote sites for disaster recovery purposes or to be shared by applications on computer systems connected to the SDS at the remote sites. The SDS encrypts and compresses all data, so data security is maintained and the need for off-site tape handling and transport is reduced or eliminated—and so is the liability due to loss or theft of unencrypted data on physical tape. If physical tapes are needed, the SDS can be configured to connect to certain attached physical tape devices at a local or a remote site.

The Secure Data Solution normally resides in a standard communications cabinet and requires few environmental resources. An organization can install a remote SDS at another office, a remote data center, a disaster recovery provider, or a vital records provider's facility. When the remote Secure Data Solution is connected to computer systems at the remote site, those systems can also access the virtual tape images. A single operator console can manage the entire Secure Data Solution environment (all sites).

Moving to a virtual tape environment can be extremely easy and very cost-effective, especially when considering the DR/Recovery aspects of such a solution. Join us to hear how the SDS has benefitted our DR/Recovery partners and fellow VSE users in their current support backups for their mainframe environment.

V2 **zStor – a Cost-Effective Storage Subsystem**
Speaker: Pratt Parrish | WW Manager of Channel Development and Marketing | Bus-Tech, Inc.

Many users continue to operate with hardware and software technology that is lacking support for new hardware functions, and out of software and/or hardware support. IBM's newest z10 processors offer significant decreases in hardware maintenance costs and IBM software costs. But quite often the main inhibitor to a complete mainframe technology refresh is the cost of new tape and dasd storage subsystems. Mainline and Bustech now offer zStor, a low cost, rack-mounted (4u) tape and dasd subsystem. zStor offers a high performance disk subsystem, combined with a virtual tape subsystem based on Bustech's successful MDL product, all in one low priced unit. Join us for this session, and learn how the zStor product can increase your storage subsystem capabilities, while lowering your storage subsystem costs.

Monday 4:15 PM

U1 **How new concepts of SOA change your productivity**
Speaker: Wilhelm Mild, IBM

SOA is still the technology that you can not go around with today's heterogeneous application landscape. Come and see how you integrate them all. Concepts that you want to make happen with SOA – come and get samples of implementations that multiplied the business because of SOA.

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U2 What's new with SLES 11 on System z Moderator: Jeff Barnard

Speaker: Mark Post, Novell

This session will cover the new Linux distribution from Novell, SLES 11.
The speaker will cover topics including:

- * Software packaging
- * Software Adds/Removals
- * Architecture
- * Network Configuration
- * File Systems
- * Hardware Support
- * Fibre Channel Protocol (FCP)
- * z/VM Interoperability
- * Installer
- * Performance Management
- * Security
- * System Management/Configuration
- * Mono

U3 z/VSE Security Exploitation with Crypto Hardware Moderator: Tony Thigpen

Speaker: Ingo Franzki, IBM

In today's business climate you must protect critical data. Penalties for allowing personal information to become compromised (theft, mismanagement, or loss) are costly and unforgiving. You need encryption. This session will 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). It covers z/VSE's support for the IBM TS1120 and TS1130 (new) encrypting tape drives and DS8000 Full Disk encryption support as well.

Monday 5:30 PM

U1 WAVV Requirements Processing 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 requirement is reviewed by 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.

U2 The Linux on System z tool chain in a nutshell (s390-tools) Moderator: Rich Smrcina

Speaker: Hans Joachim Picht, IBM

The s390-tools package is the essential tool chain for Linux on System z. It contains everything from the

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bootloader to dump related tools. This presentation will outline the major tools of this package and present them in a nutshell, including the primary use cases, hints and real world examples providing a quick, authoritative solutions to daily system administration challenges. Furthermore the latest additions and extensions will be presented.

U3 **Integrating z/VSE into an Identity Management System**

Speaker: Ingo Franzki, IBM

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. 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 V4.2 LDAP Sign-on support.

Embassy Suites – Roebing Ballroom

Monday 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.

Tuesday April 13, 2010

Tuesday 8:00 AM

U4 **Synchronizing your VSAM Data with a Database Environment**

Speakers: Wilhelm Mild & Ingo Franzki, IBM

Moderator: Chris Behrends

This workshop will guide you through the concepts and impacts if you want to synchronize VSAM with a database. You need to take in consideration the data integrity for batch workload failures, the recovery of a VSAM file and the reflection of actions needed in the database environment. What did IBM do to ease such a project and what can be done in a fully automated way?

U2 **Encryption 101**

Speakers: Tony Thigpen, TEI and Jeff Barnard, BSI

Moderator: Tony Thigpen

What is 'encryption' and why does it matter?

U3 **Thoughts on Processor and System Emulation Technologies**

Speaker: David Boyes, Sine Nomine Associates

Moderator: Rich Smrcina

This session explores some new research on emulating processors and system architectures on dissimilar hardware. Discussion of the complexities of performing dynamic instruction translation and I/O mapping, plus some demonstration information for a experimental APE (Arbitrary Processor Emulation) tool developed for use in one of our research programs. Emulation for POWER, SPARC and Intel will be discussed, and (development willing) we will have an interesting development to demo/announce.

Tuesday 9:15 AM

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- U4 z/VSE in a 24x7 Operation** Moderator: Tony Thigpen
Speaker: Wilhelm Mild, IBM

With typical Batch and online CICS workload the trend is to increase the availability of applications for 24X7 operations. Assuring availability of business critical applications and data in z/VSE, the globalization requires permanent access to critical data and processes.

- U2 What would you like to see ported to z/VSE**
Moderators: System side: Martin Trübner, Application side: Chris Behrends

What would you like to see ported to z/VSE that is available on THE other platform (z/OS) esp. programming-languages (i.e. REXX, COBOL) and functionality in subsystems available on both platforms (i.e. MQ, CICS)" as well as on other platforms.

Invited are all that have seen other platforms and/or are visionary creating new idea. Let us put all the missing functionality in z/VSE together. If this is a session with no or little attendance- good for IBM, everone is happy with what they have.

- U3 Connectors User Experience** Moderator: Debbie Henderson
User Panel: Chris Behrends, Mid America Computer Corp and Pete Clark, CPR Systems

Chris and Pete will share their experiences with VSE Connectors and how they have implemented and integrated various Connectors into their environments. The session will cover Connectors in general, how they are used, general installation, tailoring

Tuesday 10:30 AM

- U4 WebSphere MQ Series for z/VSE**
Speaker: Wilhelm Mild, IBM

Solutions with WebSphere MQ can modernize your business and open the door for z/VSE to be part of a modern Enterprise Bus and SOA solution. This session will show the exploitation of WebSphere MQ for z/VSE V3.0, which offers new possibilities of messaging communications across platforms and architectures.

- U2 New Instructions in the z10**
Speaker: Martin Trübner

New instructions in the Z10 that make it a great machine. After the session in 2002 which had bits and pieces of Z-arch, I will now cover some of the latest instructions that give a compiled operating system a great advantage, but could also help programmers.

This is the session for those that do have exposure to HLASM programs (be it new one or old ones for maintenance).

- U3 Read-only Root File System & Other Resource Sharing Techniques**
Speaker: Brad Hinson, RedHat Moderator: Rich Smrcina

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Design and implementation of shared read-only root file system in Linux. Standardize your environment and simplify maintenance with this and other resource sharing techniques.

Tuesday 11:45 AM

U4

U2 **IXFP - Flashcopy – SNAPSHOT**
Speaker: Stev Glodowski, IBM

Moderator: Steven Southerland

Enhance your backup strategy with new Flashcopy features. While bringing you up-to date with all IXFP Flashcopy features and exploiters, this session will cover the standard Flashcopy using IXFP AR commands, how to do a SNAPSHOT using IDCAMS and FCOPY including NOCOPY and DDSR, up to the latest on the new space efficient (SE) feature.

U3

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