

zSeries Technical Conference (As of 04/11/2001)

April 23 - 27, 2001
Prague, Czech Republic

[Agenda](#)

[Sessions Descriptions](#)

Monday 23 April

Main tent									
13:00 - 13:30 Dieter Burget GUIDE SHARE EUROPE									
13:30 - 14:30 Carol Stafford, Vice President, IBM Enterprise Servers EMEA									
14:30 - 15:00 Coffee Break									
	Meeting Hall 6	Meeting Hall 7	Small Hall	Club A	Club B	Club C	Club D	Club E	Terrace 1
	Level -1		Ground floor	1st floor					2nd floor
15:00 - 16:15	<u>Z207</u> OS/390 and z/OS Unix System Services Update (Jack Jones)	<u>Z111</u> System Automation for OS/390 V2.1 Overview (Thomas Lumpp)	<u>G101</u> Repeat Tues. IBM z900 Technical Overview (Phil Dalton)	<u>Z313</u> WLM Goal Mode Migration Aid (Don Kiesel)	<u>V101</u> Repeat Tues. z/VM Platform Update (R. Mullen)	<u>V600</u> VSE/ESA Platform Update (J. Johnston)	<u>M820</u> Repeat Tues. Did you know NUMA-Q is enabled for S/390? (M. Augustine)	<u>L101</u> The World of Linux on IBM zSeries Servers (Cliff Laking)	<u>M107</u> Intro to Java and Enterprise JavaBeans on OS/390 and z/OS (Glenn Anderson)
16:15 - 16:30	Break								
16:30 - 17:45	<u>Z201</u> OS/390 and z/OS WebSphere Application Server Update (Frank DeGilio)	<u>Z309</u> Seven Deadly Sins of IP Performance Management (Laura Knapp)	<u>Z101</u> Repeat Tues. The z/Series Operating System: z/OS Technical Update (Nick Matsakis)	<u>Z303</u> Repeat Tues. RMF: The Latest and Greatest (Harald Bender)	<u>V201</u> Introduction to TCP/IP (A. Altmark)	<u>V601</u> VSE e-business Roadmap (J. Johnston)	<u>G402</u> Repeat Tues. LPAR vs. VM Multiple Preferred Guests (W. Bitner)	<u>M720</u> Economic Justification of Linux on S/390 and zSeries (D. Boyes)	<u>Z214</u> z/OS and OS/390 UNIX System Services Automation (Thomas Lumpp)
17:45	Welcome Cocktail in the Exhibition Area								

Index of colors:

z/OS Sessions	General Interest	Linux sessions	Management issues and topics	VM Sessions	Vendor sessions
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Tuesday 24 April

	<u>Z116</u>	<u>Z120</u>	<u>Z104</u>	<u>X102</u>	<u>V305</u>	<u>Z217</u>	<u>V110</u>	<u>L330</u>
16:15 - 17:30	Hardware Configuration Manager Update (J. Schmalzried)	Looking at z/OS Managed System Infrastructure (msys) for SetUp In More Detail (Franz-Peter Boley)	Repeat Wed. Migrating to z/OS Vers 1, Rel. 1 (Greg Daynes)	A monitoring facility for DB2/VM and DB2/VSE (Antoon Vekeman-Software Product Research)	Measuring multi-platform Linux systems with VM (B. Robinson)	Implementing Domino on OS/390, User Experience (J. Williams, Millennia Business Systems)	Pipelines lookup: A Swiss Army Knife (R. van der Heij)	Linux Porting Experience (D. Boyes)

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Wednesday 25 April

14:30 - 15:45	<u>Z212</u> Enterprise Web Security Using Policy Director (Jack Jones)	<u>Z311</u> Performance Tuning for WebSphere Servlets on OS/390 (Bob St. John)	<u>X102</u> The SPR products "Monitoring Facility" and "Statement Analysis" for DB2 for VSE& VM (A. Vekeman - Software Product Research)	<u>Z315</u> CICS and WLM: New Options and Insights (Steve Samson)	<u>V100</u> z/VM Platform Direction and Discussion (Reed Mullen)	<u>V301</u> Repeat Tues. z/VM Performance Update (W. Bitner)	<u>G805</u> NUMA Enabled for S/390 (EFS) Total Cost of Ownership tools and Techniques.. Simplified and explained. (W. Steagall)	<u>L940</u> The Global File System - A Cluster File System for Linux (Dr. Bündgen)	<u>M104</u> z/OS Systems Management (Joachim Schmalzried)	
15:45 - 16:15	Coffee Break									
16:15 - 17:30	<u>Z213</u> Secure Hybrid Web Server Solutions (Jack Jones)	<u>Z121</u> Z/OS Managed System Infrastructure (msys) for Operations (J. Schmalzried)	<u>Z109</u> Repeat Thurs. IBM License Manager (Alan Shaffer)		<u>V122</u> 64-Bit Support In VM (J. Franciscovich)	<u>V105</u> CMS Programming Environment Update (M. Donovan)	<u>Z122</u> Automatic Restart Manager - Implementation and Exploitation, User Presentation (Paul Arnerich, TSD UK)	<u>L570</u> Firewalls, Packet Filters & IP Masquerading on Linux (R. van der Heij)	<u>M520</u> Linux and IBM e-Server, a perfect fit. (Dr Strassemeyer)	

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Thursday 26 April

	Meeting Hall 6	Meeting Hall 7	Small Hall	Club A	Club B	Club C	Club D	Club E	Terrace 1	
	Level -1		Ground floor	1st floor					2nd floor	
08:30 - 09:45	<u>Z215</u> Using Java Technology with CICS, MQSeries, IMS and DB2 to build Web-centric applications (Ken Blackman)	<u>Z114</u> Parallel Sysplex Console Considerations and IBM 2074 (Riaz Ahmad)	<u>Z109</u> Repeat Wed. IBM License Manager (Alan Shaffer)	<u>Z312</u> Performance Tuning for WebSphere Servlets accessing CICS, IMS, and DB2 (Bob St. John)	<u>V240</u> An NFS Client For VM CMS (A. Altmark)	<u>V230</u> Pipeline Web CGI Techniques (W. Roden)	<u>V304</u> Repeat Fri. FCON/ESA for VM Performance (E. Jaeger)	<u>L560</u> Can it Do Pictures, Too? X-Windows Configuration on Linux for S/390 (R. van der Heij)	<u>M109</u> WebSphere Commerce Suite Today: Version 4 Overview (Dave Hauser)	
09:45 - 10:15	Break									
10:15 - 11:30	<u>Z211</u> How Do I Protect My S/390 or zSeries from the Internet? (Ulrich Boche)	<u>G103</u> IBM z900 Network Connectivity (Connie Beuselinck)	<u>Z106</u> OS/390 and z/OS Goody Bag (Bob Rogers)	<u>Z316</u> OS/390 and z/OS Performance Management (Steve Samson)	<u>V103</u> VM Support of OS/390 Parallel Sysplex (J. Franciscovich)	<u>V141</u> Peer-to-Peer Remote Copy for z/VM and VSE/ESA (TBD)	<u>G801</u> What is S/390 Enablement on NUMA-Q EFS Anyway? (G. Eheman)	<u>L920</u> Using the Andrew File System (D. Boyes)	<u>X101</u> Introducing TMON for CICS/TS (VSE) (Terry McGrath, Landmark Syst.)	

Coffee Break									
11:30 - 11:45									
11:45 - 13:00	<u>Z117</u> Installation Enhancements in z/OS (Greg Daynes)	<u>Z107</u> z/OS InfoPrint Server: Part 1 (Paul Rogers)	<u>L103</u> Linux for S/390 and zSeries Middleware Alternatives (Frank DeGilio)	<u>Z218</u> Running SAP/R3 in an OS/390 Envir.; Dream or Nightmare? A User presentation (Ludwig Aichberger , Land Oberoesterreich)	<u>V402</u> Sharing data between Linux and VM (W. Roden)	<u>V303</u> VM Guest Performance (W. Bitner)	<u>V271</u> Repeat Tues. DB2 for VSE & VM: What's new in V7 ? (F. Fillmore)		<u>Z310</u> Coding Java for Performance (Christine Casey)
13:00 - 14:30 Lunch in Restaurant Gloria, 1st floor Coffee in the Expo, ground floor									
14:30 - 15:45	<u>Z112</u> Parallel Sysplex Automation (J.Schmalzried)	<u>Z108</u> z/OS InfoPrint Server: Part 2 (Paul Rogers)	<u>Z110</u> Repeat Fri. Software Capacity Planning: IBM License Manager and LPAR (Alan Shaffer)	<u>Z308</u> Memory Performance Management (Martin Packer)	<u>V125</u> New VM Dump Tool (J. Franciscovich)	<u>X306</u> Technical Overview of VM Performance Tools (B. Robinson, Velocity Software, Inc)	<u>L960</u> Repeat Tues. A Colony of Penguins (C. Laking)	<u>L970</u> Connecting Linux to S/390 (A. Altmark)	<u>M110</u> WebSphere Commerce Suite Tomorrow: Vers 5 Overview (Dave Hauser)
15:45 - 16:15	Coffee Break								
16:15 - 17:30	<u>Z115</u> Parallel Sysplex Recovery Planning (Riaz Ahmad)	<u>L102</u> Repeat Fri. Linux in an LPAR: Here's How It's Done (Erich Amrehn)	<u>Z118</u> Getting Ready for IBM License Manager (Greg Daynes)	TBC	<u>V203</u> Repeat Wedn. TCP/IP for z/VM Update (A. Altmark)	<u>V274</u> Exploiting DB2 Server for VSE&VM for Business Intelligence and e-Commerce (F.Fillmore)	<u>V142</u> FlashCopy for z/VM and VSE/ESA (TBD)	<u>L905</u> Repeat Tues. The Iron Penguin (N. Ferguson)	TBC

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Friday 27 April

	Club A	Club B	Club C	Club D	Club E
1st floor					
08:30 - 09:45	<u>Z119</u> License Manager Impl. Experience: Hints and Tips (Paul Rogers)	<u>Z216</u> WebSphere and Java with IMS Applications and Data: Ideal for e-business (Ken Blackman)	<u>L102</u> Repeat Thurs. Linux in an LPAR: Here's How It's Done (Erich Amrehn)	TBC	<u>L930</u> Linux System automation using VM PROP (D. Boyes)
Coffee Break					

10:15 - 11:30	Z110 Repeat Thurs. Software Capacity Planning: IBM License Manager and LPAR (Alan Shaffer)	Z205 Migration Strategies for WebSphere on OS/390 and z/OS (Glenn Anderson)	V304 Repeat Thu. FCON/ESA for VM Performance (E. Jaeger)	V272 Repeat Wed. DB2 Server for VSE&VM Tips, Tricks, and Techniques (F.Fillmore)	L915 64-Bit Early Experiences For Linux (N. Ferguson)
11:30	End of Conference				

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zSeries Technical Conference, featuring z/OS, z/VM and Linux - Abstracts

Sessions are divided into these topic areas:

- [G100 General Interest](#)
- [Z200 WebSphere, Java and UNIX Services](#)
- [Z100 z/OS and OS/390 Implementation and System Services](#)
- [Z300 z/OS and OS/390 WLM and Performance Management](#)
- [L100 Linux](#)
- [M100 Management Issues and Topics](#)
- [V10 zVM and VM/ESA](#)
- [X100 Marketing /Vendor Sessions](#)

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G100 General Interest

Includes these session titles:

- [G101](#) - IBM z900 Technical Overview
- [G102](#) - IBM z900 I/O Overview and Migration
- [G103](#) - IBM z900 Network Connectivity
- [G104](#) - IBM z900 and z/OS Parallel Sysplex Update
- [G105](#) - LPAR Advanced Topics
- [G106](#) - FICON Overview
- [G401](#) - S/390 Service Update Facility: A day in the life of a system programmer
- [G402](#) - LPAR vs Multiple Preferred Guests
- [G801](#) - What is S/390 Enablement on NUMA anyway?
- [G802](#) - Is anyone using S/390 Enablement on NUMA ? (You bet)
- [G803](#) - NUMA and S/390, What is NUMA? Architectural overview
- [G805](#) - NUMA Enabled for S/390 (EFS) Total Cost of Ownership tools and techniques*. simplified and explained

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G101 - IBM z900 Technical Overview

Phil Dalton

The IBM eServer zSeries 900 and z/Architecture provide an unbeatable enterprise-class platform with the performance, real-time responsiveness, application flexibility and simplified management required to deliver unprecedented business value for the next generation of e-business. Come to this session to learn about the leadership technology, design, system structure, and new function in the z900 central electronic complex that differentiate z900 as the first of an entirely new class of IBM servers for both e-businesses and traditional S/390 applications.

[Top Agenda or zSeries Abstracts](#)

G102 - IBM z900 I/O Overview and Migration

Connie Beuselinck

This session will cover all of the features that can be installed in the new z900 I/O cage - ESCON, FICON, OSA-Express, ISC-3, and PCI Crypto. These new features complement the z900's increased processing power with greatly increased I/O bandwidth and connectivity compared to the previous S/390

G103 - IBM z900 Network Connectivity

Connie Beuselinck

This session will cover all of the network connectivity options on the z900. It will compare the Open Systems Adapter-Express (OSA-Express) on the z900 with OSA-Express on G5/G6 as well. We'll discuss the value of the new I/O infrastructure, Queued Direct Input/Output (QDIO), and new functional enhancements that were delivered in OS/390 V2R10. A comparison of ESCON, FICON, and OSA-Express will be done to ensure you have a view of all of the connectivity options available on the z900. This session will also touch upon Enterprise Extender, TN3270 Serving, and applications that could benefit from use of OSA-Express.

G104 - IBM z900 and z/OS Parallel Sysplex Update

Phil Dalton

The IBM eServer zSeries 900, z/Architecture , and z/OS offer a quantum leap in parallel sysplex performance, function and connectivity. Come to this session to learn more about how z900 enhances parallel sysplex with a new coupling facility, new I/O subsystem capabilities, new PR/SM LPAR function, and new high-speed coupling links. And, get an introduction to how a z/OS sysplex will exploit the new capabilities z900 provides.

G105 - LPAR Advanced Topics

Phil Dalton

This session focuses on the newest enhancements in logical partitioning (PR/SM LPAR) technology introduced on the IBM eServer zSeries 900 and on the S/390 Parallel Enterprise Server G6 and G5. Learn about this new function and learn how to use new LPAR controls and configuration in support of the new z900 z/Architecture, new parallel sysplex function, z/OS, Capacity Upgrade on Demand, and Linux. This session is intended for those with considerable familiarity with PR/SM LPAR. It builds upon material presented in session

G106 - FICON Overview

Connie Beuselinck

The new Fibre CONnection (FICON) channels offered on the z900 combined with the introduction of the INRANGE FC/9000 Fibre Channel Director, the McDATA ED-5000 Enterprise Fibre Channel Director, the IBM Enterprise Storage Server, and the IBM Magstart 3590 can provide you with winning combinations. All of these products will be discussed to help you leverage FICON to reduce channel requirements while supporting the new workloads at higher speeds and increased distances up to 100 km with appropriate repeaters.

G401 - S/390 Service Update Facility: A day in the life of a system programmer

Stephen Saroka

Did you ever wish you could just click your mouse and get just the service (PTFs) you need for your S/390 zOS, OS/390, zVM, VM/ESA, VSE/ESA systems and related subsystems? You can! Come to this session to hear about the S/390 Service Update Facility (SUF), the S/390 strategic Internet solution for ordering corrective and preventive service customized to your system and related subsystems!

G402 - LPAR vs Multiple Preferred Guests

Bill Bitner

In non-VM installations, hardware Logical Partitioning (LPAR) support is widely viewed as an alternative to VM/ESA's Multiple Preferred Guest (MPG) facilities. However, VM aficionados know that there must be a catch, since VM offers so much more. In fact, as this session explains, running VM in an LPAR can even be a viable configuration option. Because LPAR and MPG are based on many of the same technologies and concepts, it isn't surprising that they are often compared and sometimes confused. In this session, we try to present a factual comparison of LPAR and MPG, with an eye to helping customers decide which solution is the right one for them.

G801 - What is S/390 Enablement on NUMA anyway?

Gary Eheman

This technical presentation will offer more detail on S/390 Enablement on NUMA than the overview session [M820](#). It will answer the questions What is S/390 Enablement? How does it work? What do you need to know about it to enjoy success? Device support will be discussed as well as processor support. Get the facts on IBM's new S/390 entry level offering server.

G802 - Is anyone using S/390 Enablement on NUMA ? (You bet)

Rod Nash

This session will explore the reasons why the NUMA-Q EFS system is a good solution for many customers. We will take a close look at why a customer choose NUMA-Q EFS, what system they were coming from, the VSE software they were using and the network environment. Then we will look at how the

system, applications and data were migrated to the new system, the new network configuration and some unique features of NUMA-Q EFS that were exploited. We will also the skills required to install and maintain the NUMA-Q EFS system. Finally we will discuss some of the problems we created for ourselves during the install and migration.

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G803 - NUMA and S/390, What is NUMA? Architectural overview

Andreas Sonntag

- Why Intel
 - HW - architectural comparison
 - NUMA: What's NUMA
- Why NUMA
 - Offering to Customers
 - Partitionable Multi-OS environment

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G805 - NUMA Enabled for S/390 (EFS) Total Cost of Ownership tools and techniques... simplified and explained

Bill Steagall

It is not useful to compare apples to oranges, and likewise when analyzing two somewhat different options to solve the same problem, one can not simply compare hardware to hardware. It is necessary to compute the total cost of ownership. To have an accurate understanding of the options, it is important to include software and maintenance, among other things. The worst mistake is to compare the wrong hardware configurations. We'll discuss xServer 430 Enabled for S/390 (x/EFS) and alternatives for the thirty MIPS and under customer.

Z200 WebSphere, Java and UNIX Services

Includes these session titles:

- [Z201](#) - OS/390 and z/OS WebSphere Application Server Update
- [Z202](#) - Configuring Java Servlet Support on OS/390 and z/OS
- [Z203](#) - Understanding and Implementing WebSphere for OS/390 and z/OS Connectors
- [Z204](#) - Web Server Security on OS/390 and z/OS
- [Z205](#) - Migration Strategies for WebSphere on OS/390 and z/OS
- [Z206](#) - WebSphere 4.0 for OS/390 and z/OS: Planning and Implementing
- [Z207](#) - OS/390 and z/OS Unix System Services Update
- [Z208](#) - Unix Filesystem Sysplex Support (Shared HFS)
- [Z209](#) - OS/390 and z/OS Unix Services Security Update
- [Z210](#) - LDAP Implementation and Customization on OS/390 and z/OS
- [Z211](#) - How Do I Protect My S/390 or zSeries from the Internet?
- [Z212](#) - Enterprise Web Security Using Policy Director
- [Z213](#) - Secure Hybird Web Server Solutions
- [Z214](#) - z/OS and OS/390 UNIX System Services Automation
- [Z215](#) - Using Java Technology with CICS, MQSeries, IMS and DB2 to build Web-centric applications
- [Z216](#) - WebSphere and Java with IMS Applications and Data: Ideal for e-business
- [Z217](#) - Implementing Domino on OS/390 – a User Experience
- [Z218](#) - Running SAP/R3 in an OS/390 Environment; Dream or Nightmare? A User presentation

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Z201 - OS/390 and z/OS WebSphere Application Server Update

Frank DeGilio

This session will discuss the evolution of the WebSphere Application Server over the last year. Since WebSphere's inception back in the late 90's, the product has gone through a number of dramatic changes that reflect not only market forces but the incorporation of IBM's unique insight into how this technology can solve business problems. This has been especially true in the 390 arena where the product has been pushed to take advantage of the classic strengths of OS/390 while maintaining the edge associated with web culture. This presentation outlines this heritage and relates it to the new features, functions and strategies in the latest WebSphere product set.

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Z202 - Configuring Java Servlet Support on OS/390 and z/OS

Glenn Anderson

This session will introduce JAVA servlets and JAVA server pages, and their relationship to webserving on OS/390. A discussion of the servlet support included in the Websphere Application Server Standard Edition 3.02 and 3.5 will follow. Topics to be covered include the servlet runtime environment, servlet lifecycle, and configuring the Websphere Application Server 3.02 and 3.5 on OS/390 to support servlets. This session assumes basic knowledge of OS/390 webserving and JAVA.

Z203 - Understanding and Implementing WebSphere for OS/390 and z/OS Connectors

Frank DeGilio

This session focuses on how to effectively connect OS/390 to legacy environments. The advent of WebSphere has introduced a new method for making the best use of your current reliable transaction environment. This presentation enumerates the different ways customers can tie the latest web technology to the tried and true applications that are the workhorse of your business.

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Z204 - Web Server Security on OS/390 and z/OS

Ulrich Boche

This presentation tries to give a broad overview of OS/390 Web server security. Its main topics are:

- Why Serving the Web from OS/390 Provides Better Security
- Serving Web Pages Securely from OS/390
- Accessing CICS, IMS and DB2 Securely from the Web
- SSL and Client Certificates
- System SSL with the web server

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Z205 - Migration Strategies for WebSphere on OS/390 and z/OS

Glenn Anderson

The latest OS/390 WebSphere Version 4 announcements bring with them a series of challenges on how to get from here to there. Are you moving your servlet environment from the Application Server 1.2 to the new 3.5? How about from Application Server 3.02 to 3.5? Are you interested in migrating from Standard Edition to WebSphere V4.0? Are you confused about where you are right now with WebSphere on OS/390, let alone where you should be? If you answered yes to any of these questions, then this session is for you.

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Z206 - WebSphere 4.0 for OS/390 and z/OS: Planning and Implementing

Glenn Anderson

The newly announced WebSphere Ver 4.0 for OS/390 and z/OS provides a Java 2 Enterprise Edition runtime environment for servlets, JSP's and Enterprise JavaBeans. This brings with it exciting new possibilities for running e-business applications on the OS/390 and z/OS servers. WebSphere Ver 4.0 also brings with it a large and complex implementation. This session will introduce the components of WebSphere 4.0 and their functions. Also included will be an outline for implementation.

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Z207 - OS/390 and z/OS Unix System Services Update

Jack Jones

Unix System Services has been an integrated part of OS/390 for several years now. It is required to implement several 'new' interfaces and applications. In session, enhancements that have been added to OS/390 Unix System Services 2.10 and higher will be discussed. This will be divided into the File System enhancements, Shell and Utilities enhancements, and Kernel enhancements. Examples of how these enhancements might be used within the user's OS/390 Unix System Services environment will be provided when appropriate.

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Z208 - Unix Filesystem Sysplex Support (Shared HFS)

Jack Jones

Starting with OS/390 2.9, the HFS files introduced support for sharing Unix files across a sysplex. This provides accessibility and availability advantages for the HFS. This session will describe the implementation of this support and its requirements. Examples of running this with various environments will be provided with the required updates to the BPXPRMxx member of SYS1.PARMLIB. A basic understanding of HFS and its system management issues are needed for this session.

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Z209 - OS/390 and z/OS Unix Services Security Update

Ulrich Boche

The security in OS/390 UNIX System Services is considerably different from that of other UNIX systems. This presentation shows both the commonalities and the differences.

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Z210 - LDAP Implementation and Customization on OS/390 and z/OS

Jack Jones

The OS/390 LDAP server was introduced in OS/390 2.5 and there have been many enhancements since then. With OS/390 2.10, the LDAP server became a full function LDAP V3 server. This session discusses the basic features and functions of the OS/390 LDAP server, and several examples as to why this is critical to your enterprise. Most of this session will be explaining of the LDAP server is implemented on OS/390.

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Ulrich Boche

This presentation will discuss the issues of connecting a mainframe system to the Internet. Topics are TCP/IP security, the use of firewalls, and the implementation of a de-militarized zone including some customer scenarios.

[Top Agenda](#) or [zSeries Abstracts](#)**Z212 - Enterprise Web Security Using Policy Director****Jack Jones**

It is becoming a requirement for an enterprise to have a security policy that protects their complete webserver environment. Most webserver security implementations protect just the individual webserver or web application. This session shows some of the security challenges that must be addressed when an institution deploys e-business solution. The requirements and components of an enterprise security environment will be reviewed. IBM's Policy Director and its components will be used for example purposes but the emphasis of this session is issues and considerations for securing an enterprise web application(s). This session will be used as background for session [Z213](#).

[Top Agenda](#) or [zSeries Abstracts](#)**Z213 - Secure Hybrid Web Server Solutions****Jack Jones**

To protect your web server, as well as other TCP/IP protocols, you will need to have a strong network security environment. This session will review what some customers are doing to configure the networks and systems for security and how they are using their S390 systems in these solutions. These solutions include components that are cross platform but will discuss the OS/390 feature and functions. The examples used in this session are all current customer implementations.

[Top Agenda](#) or [zSeries Abstracts](#)**Z214 - z/OS and OS/390 UNIX System Services Automation****Thomas Lumpp**

This presentation covers what's available on OS/390 and z/OS to automate and monitor multi-tiered applications with a focus on USS based applications. Automation problems and available solutions and bypasses are worked out. The latest news are System Automation for OS/390 V2.1 enhancements that allow the transparent automation of USS based applications. Automation details are provided for the most important UNIX applications. Monitoring plays a key role in OS/390 UNIX System Services (USS) Automation.

This presentation shows, how to display USS info for all processes or about a specific process and how to use the NetView UNIX Pipe Stage to issue NetView Commands from UNIX or vice versa.

Finally, all available RMF measurements of USS are listed, like RMF postprocessor and monitor II reports for HFS, Lotus Domino, and HTTP Server, and how to use them to improve USS performance. RMF's GUI, PM of OS/390 offers even a prototype that can monitor Linux images.

[Top Agenda](#) or [zSeries Abstracts](#)**Z215 - Using Java Technology with CICS, MQSeries, IMS and DB2 to build Web-centric applications****Ken Blackman**

As customers build new web-centric Java applications, they need to be able to incorporate their existing business processes and database systems into their new e-business model. This presentation provides the details of how Java applications can run in and with CICS, MQSeries, IMS and DB2, and how together they can support new web-centric applications with existing corporate data.

[Top Agenda](#) or [zSeries Abstracts](#)**Z216 - WebSphere and Java with IMS Applications and Data: Ideal for e-business****Ken Blackman**

With much of the world's corporate data residing in high-performance IMS systems, e-business enablement is a hot topic. This session is an overview of the e-business enablement tools and solutions involving WebSphere and IMS. These solutions extend IMS applications and data out to the Internet/Intranet and into the world of Java, EJBs, and XML. This session explores the architecture used to "Web-enable" IMS using WebSphere, and introduces you to the IMS Web-enabling tools and their interfaces. It covers the IMS role in the e-business framework and focuses on the currently available IMS WebSphere connectors. Many IMS users are using WebSphere today to access IMS data directly or via IMS transactions. The session also explains the direction the IMS connectors will be taking in the future as they help users implement their solutions across the Web.

[Top Agenda](#) or [zSeries Abstracts](#)**Z217 - Implementing Domino on OS/390 – a User Experience****Julie-Ann Williams, Millennia Business Systems Ltd**

This presentation covers Julie's experiences whilst installing and implementing Domino on OS/390 at Direct Line Insurance. A large telephone based insurance company in the UK, Direct Line has a history of using OS/390 as its platform of choice for applications. This session does not cover business decisions for why they chose Domino on OS/390. It is purely technical data on things that discovered during the project.

A copy of the presentation can be found at www.sysprog.co.uk/Domino.ppt

[Top Agenda](#) or [zSeries Abstracts](#)**Z218 - Running SAP/R3 in an OS/390 Environment; Dream or Nightmare? A User presentation**

The government of Upper Austria has been running SAP/R3 (ISPS) in an OS/390 environment over more than 3 years; the presentation covers highlights, problems and overall user experience over that time, the reasons for choosing that platform, platform weaknesses and highlights and future intentions

Z100 z/OS and OS/390 Implementation and System Services

Includes these session titles:

- [Z101](#) - The z/Series Operating System: z/OS Technical Update
- [Z102](#) - zSeries Architecture Application Support
- [Z103](#) - z/Series Architecture Operating System Support
- [Z104](#) - Migrating to z/OS Version 1 Release 1
- [Z106](#) - OS/390 and z/OS Goody Bag
- [Z107](#) - z/OS InfoPrint Server: Part 1
- [Z108](#) - z/OS InfoPrint Server: Part 2
- [Z109](#) - IBM License Manager
- [Z110](#) - Software Capacity Planning: IBM License Manager and LPAR
- [Z111](#) - System Automation for OS/390 V2.1 Overview
- [Z112](#) - Parallel Sysplex Automation
- [Z113](#) - IBM Coupling Technology: An Update
- [Z114](#) - Parallel Sysplex Console Considerations and IBM 2074
- [Z115](#) - Parallel Sysplex Recovery Planning
- [Z116](#) - Hardware Configuration Manager Update
- [Z117](#) - Installation Enhancements in z/OS
- [Z118](#) - Getting Ready for IBM License Manager
- [Z119](#) - License Manager Imp. Experience: Hints and Tips
- [Z120](#) - Looking at z/OS Managed System Infrastructure (msys) for Setup In More Detail
- [Z121](#) - z/OS Managed System Infrastructure (msys) for Operations
- [Z122](#) - Automatic Restart Manager - Implementation and Exploitation, a User Presentation
- [Z123](#) - The future and z/OS - a User presentation

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Z101 - The z/Series Operating System: z/OS Technical Update

Nick Matsakis

This session will focus on the new software technologies, functions, and enhancements which were delivered in z/OS 1.1 and "Previewed" in z/OS 1.2. Topics which will be discussed are:

- z/OS 1.1
 - Intelligent Resource Director
 - Network Connected Multiple Console Support (MCS)
 - Managed System Infrastructure (msys)
 - 64-Real (OS/390 V2R10)
 - IBM License Manager
 - Workload License charges
- z/OS 1.2
 - System Managed CF Duplexing
 - HiperSockets
 - Extended use of Managed System Infrastructure (msys)
 - Security Enhancements
 - RMF updates

Coexistent, statements of direction, etc. will also be discussed.

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Z102 - zSeries Architecture Application Support

Bob Roger

The IBM zSeries z900 processor supports a new 64-architecture called z/Architecture. This presentation is a tutorial overview of this new architecture, including, the overall structure and rationale of the architecture. It also covers most of the new instructions that applications can use to exploit the 64-bit capabilities of the z900. It also covers the many new instructions that have been defined to improve program efficiency which are not directly related to 64-bit processing. This session is a prerequisite for the session **z/Series Architecture Operating System Support**.

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Bob Roger

This session delves into the aspects of the new z/Architecture which typically only used by operating systems or authorized middleware programs. This includes dealing with real storage above 2GB, dynamic address translation, doing I/O with real storage above 2GB and many other relatively esoteric topics. It is intended for those who need to know such details as well as anyone curious as to how the 64-bit hardware and software support really work. It assume previous attendance to the session **zSeries Architecture Application Support**.

[Top Agenda](#) or [zSeries Abstracts](#)**Z104 - Migrating to z/OS Version 1 Release 1****Greg Daynes**

z/OS Version 1 Release 1 in conjunction with a zSeries 900 processor will provide 64-bit real storage support, the Intelligent Resource Director (IRD), Variable Workload License Charging (VWLC), and IBM License Management. During this session the speaker will explain how to successfully plan for and migrate to z/OS Version 1 Release 1, as well as explain the software considerations to migrating to the z900 server. Topics include:

- The new and changed elements of z/OS
- A new z/OS Upgrade Package for OS/390 R10 customers
- Driving and target system requirements
- Required migration tasks (including hardware and software)
- Recommended migration paths for customers wishing to run z/OS on a z900 server
- Installation enhancements for z/OS Release 1 customers

This session will be of interest to systems programmers (and their management) who order and install software. Regardless of where you're migrating from, prepare for the z/OS operating system by attending this informative session!

[Top Agenda](#) or [zSeries Abstracts](#)**Z106 - OS/390 and z/OS Goody Bag****Bob Rogers**

This presentation covers some of the items in OS/390 R8 thru R10 and z/OS release 1 which will be of interest to systems programmers. For these release these include, but are not limited to:

- 64-bit support under z/Architecture
- Some enhancements to WLM
- Some Unix enhancements
- Greater than 32K blocksize support
- Relief for real storage below 16MB
- The architecture levelsets for OS/390 R10 and z/OS R1

For the enhancements discussed, a description of the problem solved and its history is provided.

[Top Agenda](#) or [zSeries Abstracts](#)**Z107 - z/OS InfoPrint Server: Part 1****Paul Rogers**

InfoPrint Server, introduced as OS/390 Print Server with Release 5, is an optional feature of OS/390 Version 2 Release 8 and higher that uses OS/390 UNIX System Services and lets you consolidate your print workload from many servers onto a central OS/390 print server. This feature is the basis for a total print serving solution for the OS/390 and z/OS environments. InfoPrint Server provides support for LAN and host printing on OS/390 and consists of several components, IP Printway and NetSpool that work together to provide printing services.

InfoPrint Server delivers improved efficiency and lower overall printing cost with the flexibility for high-volume, high-speed printing from the JES spool to anywhere in the network. With InfoPrint Server, you can reduce the overall cost of printing while improving manageability, data retrievability, and usability.

This 2-part presentation describes the InfoPrint Server from a functionality, customization, implementation, and end-user point of view.

[Top Agenda](#) or [zSeries Abstracts](#)**Z108 - z/OS InfoPrint Server: Part 2****Paul Rogers**

See Part 1

[Top Agenda](#) or [zSeries Abstracts](#)**Z109 - IBM License Manager****Alan Shaffer**

VM has always supported VSE, and z/OS operating systems as guests, enabling enterprises with VSE, z/OS, and VM to run their diverse applications on the same processor. As z/OS testing has become more complex through the use of Parallel Sysplex technology, VM has responded to this challenge by providing the capability to support the Parallel Sysplex system environment as guests. This session will describe how to use this VM unique capability to virtualize the Parallel Sysplex environment under VM, without the need for a Coupling Facility, Coupling Links, or a Sysplex Timer.

[Top Agenda](#) or [zSeries Abstracts](#)**Z110 - Software Capacity Planning: IBM License Manager and LPAR****Alan Shaffer**

Z111 - System Automation for OS/390 V2.1 Overview

Thomas Lumpp

Come to this session to learn about the amazing new Sysplex Automation and other new functions of System Automation for OS/390 V2.1. Parallel Sysplex Automation needs to deal with the resources that are critical for sysplex and application availability and has to be able to handle complex applications that are distributed over multiple systems within the sysplex. Automation limited to just one system is simply not able to do the job. SA OS/390 V2.1 can automate applications distributed over a sysplex by virtually removing system boundaries for automation through its new manager/agent design exploiting MQSeries 5.2 technology. SA OS/390 V2.1 can reduce the complexity of managing a Parallel Sysplex through its goal driven Parallel Sysplex application automation and brand new concepts like grouping and powerful dependency support which enables you to model your configuration.

Z112 - Parallel Sysplex Automation

Joachim Schmalzried

Parallel Sysplex can achieve higher availability at a lower cost through its data-sharing, redundancy and workload-management and -backup features. Parallel Sysplex Automation has to deal with resources critical for sysplex availability and has to be able to automate complex applications which are distributed over the sysplex. Automation limited to just one system is simply not able to do the job. System Automation for OS/390 V2.1 (SA OS/390) can automate applications distributed over a sysplex by virtually removing system boundaries for automation through its new manager/agent design.

In this presentation, the speaker will cover:

- Parallel Sysplex automation overview and considerations
- Discussion of automation of applications exploiting sysplex
- Parallel Sysplex HW/SW Automation with System Automation for OS/390
- New sysplex automation to remove system boundaries and to
- Lower complexity and costs, increase service quality
- Subsystem recovery using Automatic Restart Management (ARM)

Z113 - IBM Coupling Technology: An Update

John Stimson

IBM's Parallel Sysplex technology is continually evolving and new and exciting function are being rolled out. Take a look at what OS/390 Release 9, 10 and z/OS V1R1 on the IBM ^ z900 processors offer in new functions and enhancements to make your Parallel Sysplex even more available, more easier to manage and faster! We'll also discuss some of the new hardware that has been announced and how it is integrated with the operating systems software, which is a major competitive advantage that only IBM holds!

Z114 - Parallel Sysplex Console Considerations and IBM 2074

John Stimson

Parallel sysplex provide a simpler and more flexible way to operate consoles in a multisystem environment. Many changes were introduced into multiple console support (MCS) to support the sysplex environment. This presentation will address how to define and use multiple console support (MCS) consoles and the Extended MCS consoles. How messages and commands in a parallel sysplex environment are processed. SMCS support in z/OS V1R1 and IBM 2074 Console Support Controller will also be discussed.

Z115 - Parallel Sysplex Recovery Planning

John Stimson

One of the benefits of Parallel Sysplex is the elimination of the processor as a single point of failure, but this improvement alone does not guarantee continuous operation. To achieve continuous operation care must be taken to adequately configure, define policies, and implement procedures to avoid or minimize the loss of a component due to planned or unplanned outages. In this session following recovery considerations will be discussed for the Parallel Sysplex infrastructure, including: Recovery considerations for Image failure, Coupling Facility recovery, Subsystems recovery for Resource Sharing Components and Planned removal of Coupling Facility from the Parallel Sysplex.

Z116 - Hardware Configuration Manager Update

Joachim Schmalzried

With ESCON, FICON, Parallel Sysplex, and other I/O connectivity technologies becoming increasingly complex, managing the associated configurations is becoming more and more difficult. Hardware Configuration Manager (HCM) to the rescue! HCM allows you to easily keep track of your hardware and software configuration and to define all necessary information through a graphical user interface. Come to this session to hear about the updates in OS/390 2.7 HCM and in OS/390 2.9 HCM, especially:

- How the utilities provided with OS/390 2.7 HCM help to simplify complex configuration changes
 - when migrating to the new FICON architecture
 - when including new directors in a configuration
- How the new OS/390 2.9 HCM work together with I/O-OPS (ESCON Manager) to:
 - display the I/O devices of the active Sysplex

- visualise operational information in the configuration diagram
- sense NED information
- retrieve, change and activate directly matrices of a director

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Z117 - Installation Enhancements in z/OS

Greg Daynes

There have been a number of enhancements spread across a wide variety of tools, including ServerPac, SMP/E, and ShopzSeries. Come to this session to hear the speaker describe:

- How ServerPac has changed since the last time you installed one? OS/390 R9, R10 and z/OS V1 R1 ServerPac enhancements include manipulating SMS-managed data sets and HFS files; a new look for "Modify System Layout" providing a new View and Change facility to make it easier to change data set attributes and move data sets between volumes; setup for License Manager, and more.
- New support in SMP/E to address an overflowing SMPPTS data set (available via PTF for current releases). Some other topics will be previewed, such as new SMP/E function to provide the ability to install software products and service directly from a network source like the Internet, which will allow a quicker and more seamless integration of electronic software delivery and installation.
- ShopzSeries (formerly ShopS390) which is a new tool that provides customers with a self-service capability for planning and ordering S/390 software upgrades over the Web. It will analyze your current installation, determine the correct product migration and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). This application is currently available for use in the US and a number of European countries with future plans to deploy worldwide.

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Z118 - Getting Ready for IBM License Manager

Greg Daynes

The IBM License Manager is a combination of license management tools you can use to manage software licenses, check compliance with the software licenses, and manage your software inventory. It keeps track of what products are licensed to a server and manages the use of these products to the terms and conditions in the products license. IBM License Manager is based on the Open Group specification for software license use management (XSL). The speaker will discuss the prerequisite software, hardware and installation activities in preparation for installing and configuring the IBM License Manager. This session is intended for MVS systems programmers who have the responsibility of building the infrastructure required for the IBM License Manager to function.

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Z119 - License Manager Imp. Experience: Hints and Tips

Paul Rogers

IBM License Manager (ILM) as an element of z/OS is also a component of Workload License Charges (LC) and together they provide the ability to use a combination of IBM z/Series hardware and software to manage your costs and system capacity. This presentation provides a system programmer perspective to the operation of ILM and LC. It provides an insight into the daily operation of this new environment and describes the internal working of the various components involved.

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Z120 - Looking at z/OS Managed System Infrastructure (msys) for Setup In More Detail

Franz-Peter Boley

This session builds on session [M108](#) and provides more technical detail about how z/OS msys for Setup works, which configurations are supported and what the technical pre-reqs for using msys are.

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Z121 - z/OS Managed System Infrastructure (msys) for Operations

Joachim Schmalzried

The msys initiative to make the manageability of z/OS easier is extended in z/OS R2 to operations tasks by the introduction of a new element, z/OS Managed System Infrastructure for Operations (z/OS msys for Operations). It simplifies the day-to-day operation of z/OS Parallel Sysplex clusters. By automating typical operator tasks and events in a Parallel Sysplex it reduces operations complexity and improves system recoverability, enhancing the availability of Parallel Sysplex clusters. Distinct displays of relevant information allow greater operational awareness, providing ease of manageability.

With msys for Operations you will be able to easily manage all the systems in a Parallel Sysplex, coupling facilities and their structures, as well as couple data sets. For example, it will be possible to drain a coupling facility (that is, to release it from its structures and connections) with one simple, interactive command. In addition msys for Operations resolves situations, like WTO(R) buffer shortages or system logger failures, through its build-in automation technology.

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Z122 - Automatic Restart Manager - Implementation and Exploitation, a User Presentation

Paul Arnerich, TSD UK

This presentation will overview Automatic Restart Manager (ARM) functions, and explore the reasons for implementing today. Implementation issues include Operator Commands, Exits and Policy Definition will be discussed. Finally, the paper will look at a user experience implementing ARM including use of the "Wrapper" to manage automated recovery for applications that do not/cannot support ARM.

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Z123 - The future and z/OS - a User presentation

IBM announced the new zSeries machines and operating systems on 3 Oct. 2000. This is a major announcement in the MVS history and affects both the operating system, the applications and the cost picture for most "mainframe" installations. What has IBM solved by introducing z/OS? What has not been solved (yet)? What new problems will surface as time passes? What is the ideal configuration for the next few years? This presentation will try to address these important questions.

Z300 z/OS and OS/390 WLM and Performance Management

Includes these session titles:

- [Z301](#) - OS/390 WLM Goal Mode Improvements
- [Z302](#) - WLM and LPAR CPU Management
- [Z303](#) - RMF: The Latest and Greatest
- [Z304](#) - Parallel Sysplex Tuning Update: Software
- [Z305](#) - Parallel Sysplex Tuning Update: Hardware
- [Z306](#) - DB2 Batch Performance
- [Z307](#) - Intelligent Resource Director in Action
- [Z308](#) - Memory Performance Management in a 64-bit World
- [Z309](#) - Seven Deadly Sins of IP Performance Management
- [Z310](#) - Coding Java for Performance
- [Z311](#) - Performance Tuning for WebSphere Servlets on OS/390
- [Z312](#) - Performance Tuning for WebSphere Servlets accessing CICS, IMS, and DB2
- [Z313](#) - WLM Goal Mode Migration Aid
- [Z314](#) - WLM and DASD I/O Topics
- [Z315](#) - CICS and WLM: New Options and Insights
- [Z316](#) - OS/390 and z/OS Performance Management

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Z301 - OS/390 WLM Goal Mode Improvements

Dieter Wellerdiek

WLM goal mode changes the way how you map your business objectives to the OS/390 system. While it takes away for the user the complexity of converting business goals to system internals, it also takes away some direct mechanisms how the users can control CPU and storage access for their workloads. Goal mode introduced that the OS/390 system became capable of recognizing CICS/IMS transactions. This allows the user to manage their CICS/IMS workloads towards business objectives like response time goals. While this was a significant improvement for managing CICS and IMS production workloads, it can be too much for managing test CICS and IMS workloads which are only sporadically or infrequently used.

This presentation provides an overview of the latest improvements for WLM goal mode. It discusses improvements to protect CPU dispatching priorities for important work against less important work as well as to protect storage for business critical applications. In addition a way is shown to manage CICS/IMS test workloads differently than production workloads. Finally the presentation gives a summary of new classification rules

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Z302 - WLM and LPAR CPU Management

Dieter Wellerdiek

Through z/OS, the zSeries platform provides a Workload Manager (WLM) that is unique in the industry in its ability to handle unpredictable volumes. Based on business goals, WLM continuously directs resources to the business priority work without human intervention. This dynamic resource allocation is managed across all virtual servers in a cluster on the same zSeries server running z/OS by the feature called Intelligent Resource Director (IRD). WLM will use clustering and partitioning technologies to monitor the performance of all the workloads and dynamically adjust physical processor and I/O resources across them without operator intervention.

In this way, WLM will be able to expand and contract the partitions, and maximize throughput in all of them intelligently based on business goals. In this example, as the e-commerce work in the first virtual server explodes, perhaps as the result of a marketing campaign, it can expand with resources while the test and development virtual servers shrink.

Intelligent Resource Director assigns resources to the application; the application is not assigned to the resource. This capability of a system to dynamically direct resources to respond to the needs of individual workloads within the system is an evolutionary step. It enables the system to direct resources to the highest priority work at any given instance, and this helps to reduce the cost of ownership of the system.

Intelligent Resource Director is made up of three parts that work together to help increase business productivity:

- Channel Subsystem Priority Queuing
- Dynamic Channel Path Management
- LPAR CPU Management

This powerful triad of functions can increase your productivity by directing resources to your most business-critical work first. Systems Management is simplified through improvements to I/O configuration and workload management. Additionally, Channel Subsystem Priority Queuing will benefit both the clustered environment and the single system customer, while Dynamic Channel Path Management and LPAR CPU Management will benefit the clustered environment. The new three functions are controlled by the Workload Manager within z/OS and are used together. This presentation gives an overview how WLM controls the new functions and how they are used to manage the workloads across multiple partitions in a zSeries server.

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Harold Bender

RMF is IBM's strategic product for z/OS performance management. It is the base product to collect performance data of z/OS systems and it provides reporting capabilities for sysplex-wide monitoring, performance analysis and capacity planning. During this session, the speaker will discuss how RMF supports you in major areas such as

- Reporting of new Workloads (HTTP/Domino Server)
- I/O Performance and new Hardware Reporting
- WLM LPAR Management / License Manager
- Linux Performance (zSeries 900 and Intel x86)

and a lot more...

This session includes the details of the latest functions provided in the recent RMF releases.

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Z304 - Parallel Sysplex Tuning Update: Software**Joan Kelley**

This presentation looks at software functions in OS/390 Rel 2.6.0 thru 2.10.0 which are related to Parallel Sysplex Performance. It describes new MVS functions relating to CF structure sizing and user duplexing. It discusses new exploiters of coupling and gives updated XCF tuning recommendations. It also provides examples of new data presented in RMF and various display commands.

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Z305 - Parallel Sysplex Tuning Update: Hardware**Joan Kelley**

For the technical person who has some experience with Parallel sysplex performance, this presentation summarizes recent developments in the Parallel Sysplex environment that are specifically related to performance. It reviews the technology changes in the G5 , G6 and zSeries 900 processors and their implications for tuning. It details new functions and fixes shipped in CFLEVELs 5 through 9. RMF reports of various configurations will be used as examples.

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Z306 - DB2 Batch Performance**Martin Packer**

Batch performance remains a topic of great importance for many installations. Increasing reliance is placed on DB2 applications and their overnight components.

With increasing data volumes being processed, DB2 batch performance is of growing interest to many.

This presentation takes IBM's methodology for batch window reduction and applies it to DB2 batch. No knowledge of DB2 is assumed, though significant DB2 information is presented (covering all the recent releases of DB2).

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Z307 - Intelligent Resource Director in Action**Joan Kelley**

We tested the Intelligent Resource Director in several different production like scenarios to determine how well it managed CPU, I/O priority and Dynamic CHPIDs. This presentation describes what we had to do to enable IRD and it compares system performance with/without the function enabled. RMF reports of the tests will be used as examples.

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Z308 - Memory Performance Management in a 64-bit World**Martin Packer**

64-bit z/OS continues the evolution of the storage hierarchy, with important changes to memory management (such as the demise of expanded storage and the very significant relief of addressability constraints). Therefore now is a good time to review how central storage works. Because central storage is not managed as simply as one might expect, this presentation describes the more important quirks and how to take them into account. It also describes the changes for 64-bit z/OS, which will cause installations to rethink how they use memory. This presentation gives guidance on how to conduct such a rethink.

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Z309 - Seven Deadly Sins of IP Performance Management**Laura Knapp**

Whether you're an Internet company with exponential growth or an enterprise transforming your business, your success depends on how well you optimize your assets. Find out the 7 deadly sins of IP performance management made by new and old e-business companies moving to an IP infrastructure and HOW to avoid them. Also, learn more about the key issues impacting a IP site including costs and how to best manage your site in the face of worldwide pressures.

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Z310 - Coding Java for Performance

This presentation will give you hints and tips on how you can code a Java application for better performance, whether you run it on VM, OS/390, or another platform. We will cover the considerations in your design and coding practices to avoid bottlenecks, and tools that may help you improve the performance of your application. Also some recent performance enhancements to the JDK will be discussed.

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Z311 - Performance Tuning for WebSphere Servlets on OS/390

Bob St. John

This presentation provides general performance tuning recommendations for WebSphere Application Server on OS/390. The presentation covers key tuning considerations for TCP/IP, Web Server and WebSphere Application Server. WebSphere stand-alone and scalable modes are discussed. WebSphere Application Server tuning topics include JVM tuning, connection management, and session persistence.

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Z312 - Performance Tuning for WebSphere Servlets accessing CICS, IMS, and DB2

Bob St. John

This presentation provides performance tuning recommendations for WebSphere Servlets on OS/390 which access CICS using CICS Transaction Gateway (CTG), IMS using IMS Connector for Java, and DB2 using Java Database Connectivity (JDBC) or SQLJ. The presentation covers recommendations for building efficient servlets using VisualAge for Java and WebSphere Studio as well as system tuning recommendations for WebSphere Application Server environments on OS/390 which access CICS, IMS, and DB2 data. Various DB2 connectivity options, JDBC, SQLJ, and Stored Procedures will also be discussed.

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Z313 - WLM Goal Mode Migration Aid

Don Kiesel

This session will address the migration from Compatibility Mode to Goal Mode and the use of the Goal Mode Migration Aid (GMMA). An overview of the process will be discussed and the advantages and concerns involved in using this method will be outlined.

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Z314 - WLM and DASD I/O Topics

Don Kiesel

This session is for those who want a better understanding of DASD, Goal Mode, and Work Load Manager. It will discuss the component parts if a DASD I/O and WLM's impact when the I/O option is selected in the Service Definition.

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Z315 - CICS and WLM: New Options and Insights

Steve Samson, Candle

Since the announcement of Workload Manager (WLM) in 1994, the interaction between CICS and WLM goal mode has been a frequent matter for concern. Many who implement goal mode see the complexity of the CICS interface and the difficulty of exploiting response time goals; they give up and stay on velocity goals with no intent to change.

IBM has recently delivered a series of new facilities to overcome some objections to goal mode. Some optional changes to the way CICS operates in goal mode are among those new facilities.

This session presents the new facilities as they apply to CICS as well as a new and less disruptive approach to goal mode migration and exploitation for CICS.

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Z316 - OS/390 and z/OS Performance Management

Steve Samson, Candle

This session reviews the art and practice of performance management, focusing on what's needed in performance management to deal with changes in the OS/390 and z/OS marketplace. Changes in demand patterns are supported by new initiatives in z/OS and must become part of the way performance management is practiced Today and tomorrow.

These changes include movement:

- from internal to external users of the system
- from carefully planned, scheduled, and predictable work types and volumes to the wild and unpredictable peaks of work that arrive from the Web
- from statically managed to dynamically managed hardware (LPAR) configurations
- from fixed software charges based on total system capacity to variable charges based on projected and actual usage

L100 Linux

Includes these session titles:

- [L101](#) - The World of Linux on IBM zSeries Servers
- [L102](#) - Linux in an LPAR: Here's How It's Done
- [L103](#) - Linux for S/390 and zSeries Middleware Alternatives
- [L104](#) - Linux S/390: A UNIX System Services Perspective

- [L330](#) - Linux Porting Experience
 - [L350](#) - Linux and VM Open Edition - synergies and comparisons
 - [L550](#) - Linux Enterprise Applications
 - [L560](#) - Can It Do Pictures Too? -- X-Windows Configuration on Linux for S/390
 - [L570](#) - Firewalls, Packet Filters and IP Masquerading on Linux
 - [L901](#) - Linux for S/390 - Basics
 - [L905](#) - The Iron Penguin - Linux on Big Iron
 - [L915](#) - 64-Bit Early Linux Experience
 - [L920](#) - Using the AFS (Andrew File System)
 - [L930](#) - Linux system automation using VM PROP (Programmable Operator Facility)
 - [L940](#) - The Global File System: A Cluster File System for Linux
 - [L950](#) - S/390 Virtual Image Facility for Linux
 - [L960](#) - A Colony of Penguins: Design and implementation of ice-floes for a large farm of Linux virtual servers
 - [L970](#) - Connecting to Linux for S/390
-

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L101 - The World of Linux on IBM zSeries Servers

Cliff Laking

[Top Agenda](#) or [zSeries Abstracts](#)

L102 - Linux in an LPAR: Here's How It's Done

Erich Amrehn

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L103 - Linux for S/390 and zSeries Middleware Alternatives

Frank DeGilio

Much has been made of the value of Linux on the S/390 platform. While it is obvious that the hardware does provide advantages over traditional Linux platforms, little has been said about the utility of Linux on the platform. This Presentation outlines some of the web related middleware choices available on S/390 and talks about some of the exploiting architectures one would find in this environment. It will talk about how one can take advantage of the Linux Capabilities and how they can readily play in a traditional Mainframe environment.

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L104 - Linux S/390: A UNIX System Services Perspective

Frank DeGilio

A glance at some of the marketing material from IBM might lead one to believe that IBM is investing in Linux to the detriment of UNIX System Services on OS/390 and z/OS. In truth the investment in Linux is complimentary to UNIX System Services on OS/390. This session talks about the evolution of UNIX System Services and Linux on S/390 and shows how these software environments differ and how they are the same. It describes architectures that favor Linux and those that favor USS and where the two can work together.

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L330 - Linux Porting Experience

David Boyes

This session provides a look at specific programming requirements and modifications required to adapt a application written for Intel Linux, mainstream Unix implementations such as Solaris or AIX, and also non-Unix platforms to operate using Linux as a base. We'll examine modifications to compile processes, source code, tools, and system services that may be required to port an application, and provide guidance on when to use Linux and when to stick with a more traditional solution and use Linux for complementary tasks in a cooperative fashion. We'll examine two major application porting projects (OpenAFS and some internal billing applications) and point out some of the problems and solutions we found.

Note: Knowledge of C programming and Unix program development will be helpful for this session.

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L350 - Linux and VM Open Edition - synergies and comparisons

Neale Ferguson

The rapid uptake of Linux on the mainframe, and the use of VM/ESA as a hosting mechanism for virtual penguin farms has ushered in a new era for VM. In this presentation a quick comparison between VM Open Extensions and Linux serves as a starting point to examine the new opportunities and synergies possible when the bear meets the penguin. Issues addressed include systems management and data sharing.

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L550 - Linux Enterprise Applications

This session provides an update on integrating Linux into an enterprise application suite. It provides an updated list of commercial vendor supporting Linux, case studies of replacing vendor-supplied applications with equivalent open-source solutions, and economic analysis of using Linux as a "leveling" platform to provide scalable, cost-effective application solutions for small to large businesses. The case studies will include WWW infrastructure, electronic mail, and transaction processing applications in several live businesses in the global arena.

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L560 - Can It Do Pictures Too? -- X-Windows Configuration on Linux for S/390

Rob van der Heij

Yes, it certainly can. Linux for S/390 does not control a video card and monitor to be used by the graphical user interface, but there are lots of options using a graphical workstation for the applications on Linux for S/390. The presentation will focus on the issues related to running applications with a remote graphical workstation.

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L570 - Firewalls, Packet Filters and IP Masquerading on Linux

Rob van der Heij

With Linux for S/390 the mainframe gets access to a wealth of modern e-business applications. The TCP/IP implementation on Linux also comes with the tools and techniques to protect these applications against intruders. VM enhances some of these tools with its virtualization of network components. These techniques can also help you in setting up the infrastructure to run multiple Linux machines on a VM system.

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L901 - Linux for S/390 - Basics

Steffen Thoss

S/390 uniquely provide customers with the ability to consolidate many servers onto a single platform. The presentation explains the S/390 unique capabilities and the specific Linux commands to take advantage of the virtualization capabilities on S/390, the optimized resource management (resource sharing), and the environment options (native, LPAR, VM). Also the IPL possibilities (tape, CD, FTP), DASD and tape handling, and the setup of the connectivity with Linux for S/390 will be explained.

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L905 - The Iron Penguin - Linux on Big Iron

Neale Ferguson

The largest Linux machine in the world is a big hunk of iron. Mainframe-style big iron is back in fashion as IBM and independent developers alike have brought the Linux platform to the S/390 mainframe running within virtual machines. This presentation introduces the S/390 architecture, touches on the byzantine development of the VM/ESA operating system and examines the technical details of the port and how it came about.

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L915 - 64-Bit Early Linux Experience

Neale Ferguson

"In December 2000, almost a year to the day of making their Linux patches for S/390 available, IBM published their experimental patches for Linux running on z/Architecture machines. This presentation looks at the early experiences of building a 64-bit Linux system using these patches and of creating a 64-bit filesystem from scratch. A look at the architecture-specific enhancements made to the Linux kernel."

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L920 - Using the AFS (Andrew File System)

David Boyes

AFS (the Andrew File System) adds several interesting capabilities to enterprises that have a need for global-scale file systems, or need to enhance the performance of a disk-intensive application while maintaining centralized control and security for data. With the release of OpenAFS (the interoperable open-source version of the IBM AFS code), organizations can now take advantage of these features at a much more attractive entry cost. This session describes the architecture and benefits of AFS, design and setup of a enterprise AFS deployment, and describes the details of adapting applications to take advantage of the AFS environment and application programming models. The examples in the presentation focus on the Linux for System/390 port of OpenAFS (and the author's travails at getting it ported to S/390), but are applicable to other AFS environments, including the University of Michigan AFS server for OS/390 and the Transarc AFS implementation available from IBM.

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L930 - Linux system automation using VM PROP (Programmable Operator Facility)

David Boyes

One of the fantastic benefits of running Linux under VM is the availability of a sophisticated programmable operations facility that can monitor Linux console and syslog output and respond intelligently to messages and queries posted by literally thousands of Linux instances. This session will describe a set of Linux automation tools that form a framework for handling common console and user problems, do availability testing and application availability monitoring, and provide rudimentary security scanning for a farm of nearly 10,000 virtual Linux systems in production. Come see how to use VM's best features to also drive events on other systems as well -- we'll also present a prototype of a distributed console monitoring tool that provides PROP-based control of AIX, Solaris, and SGI systems integrated with a Linux for S/390 environment.

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Dr. Reinhard Bündgen

The global files system (GFS) is an open source project that allows to concurrently access a file system from several Linux images if that file system is stored on a physically shared DASD. GFS therefore provides for vertical scalability and availability of file system accesses.

Standard Linux file systems do not support sharing a file system stored on a physically shared disk. The global file system (GFS) provides this important cluster capability while preserving the coherence of the caching techniques that are the base of Linux's excellent I/O performance. In addition GFS implements techniques for journaling, logical volume management and support for both large files and large directories.

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L950 - S/390 Virtual Image Facility for Linux

Christine Casey

The S/390 Virtual Image Facility for LINUX (VIF) provides an environment that lets you create and manage multiple Linux images on a single S/390 or zSeries platform. This presentation introduces you to the VIF concepts and structure, installation and configuration overview, and recent improvements to the product.

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L960 - A Colony of Penguins: Design and implementation of ice-floes for a large farm of Linux virtual servers

Cliff Laking

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L970 - Connecting to Linux for S/390

Alan Altmark

This presentation discusses how to connect LINUX for S/390 to your TCP/IP network, including LAN, CTC, and IUCV connections

M100 Management Issues and Topics

Includes these session titles:

- [M101](#) - A Management Overview of zSeries and z/OS
- [M102](#) - Why OS/390 and z/OS for e-business?
- [M103](#) - IBM's WebSphere Portfolio for OS/390 and z/OS
- [M104](#) - z/OS Systems Management
- [M105](#) - IP Management
- [M106](#) - Understanding IPv6
- [M107](#) - Intro to Java and Enterprise JavaBeans on OS/390 and z/OS
- [M108](#) - z/OS Managed System Infrastructure (msys) for Setup
- [M109](#) - WebSphere Commerce Suite Today: Version 4 Overview
- [M110](#) - WebSphere Commerce Suite Tomorrow: Version 5 Overview
- [M520](#) - Linux and IBM e-Server, a perfect fit
- [M620](#) - Value of z/VM for Linux Environments
- [M720](#) - Linux Scalability and Competitive Advantage
- [M820](#) - Did you know NUMA is Enabled for S/390?

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M101 - A Management Overview of zSeries and z/OS

Annette Miller

This session will discuss the zSeries 900 server and z/OS provide improvements over the existing S/390 Parallel Enterprise Server™ family and OS/390 in a wide range of IT system requirements. Some of the improvement characteristics we'll discuss are flexibility, responsiveness, networking, availability, openness, security, and cost effectiveness. zSeries is the first e-business Enterprise Server designed for the high-performance data and transaction requirements of next generation e-business.

[Top](#) [Agenda](#) or [zSeries Abstracts](#)

M102 - Why OS/390 and z/OS for e-business?

Annette Miller

As an OS/390 systems programmer, or an IT manager, you know how well OS/390 and z/OS are suited for e-business, but do you know how to articulate the benefits to your management and the business units within your organization? Come to this presentation to get information that you can use to sell the platform for e-business yourself. For instance, how can you map best practices in a multi-platform environment to logical servers in an OS/390 system. See how zSeries and S/390 helps you play in the rapidly changing world required to survive in the new world of e-business.

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M103 - IBM's WebSphere Portfolio for OS/390 and z/OS

This session will discuss the different options for WebSphere on S/390 and zSeries. We will identify the capabilities of WebSphere for running JSPs, servlets, and EJBs. Find out what is available on both Linux and OS/390, and compare the capabilities of both. We will see some sample scenarios for using WebSphere on each operating system, and options for combining Linux and z/OS.

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M104 - z/OS Systems Management

Joachim Schmalzried

z/OS Systems Management can help you to increase application availability, lower skill requirements and costs. z/OS has leading self-management and platform-management and can be integrated in end-to-end Tivoli management solutions. Major ease of manageability advances with msys are delivered in z/OS R1 by msys for Setup and in z/OS R2 by msys for Operations.

This presentation is intended to provide an overview of today's z/OS Systems Management goals, value, capabilities, products (including Tivoli), recent announcements and future directions.

Details include:

- Parallel Sysplex Application Automation now possible
- Simplifying the IT Environment
- z/OS Intelligent Resource Management (WLM & IRD)
- Solutions and Integration Points

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M105 - IP Management

Laura Knapp

One of the greatest challenges many of our business have faced as we move to an IP infrastructure is how is IP managed. For those of you moving from SNA (Systems Network Architecture) many of the familiar components of management do not appear to be a part of IP. While IP may not have functions that map one-one to SNA management the functions are there! Come to this session to learn about managing an IP world, including the technologies, techniques, and philosophies to use!

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M106 - Understanding IPv6

Laura Knapp

Learn about new features introduced with the new standard for TCP/IP: IPv6. Examine issues related to addressing, security, reliability, and multicasting with IPv6. Discover how to integrate IPv6 into your existing IPv4 networks coming away with a clear understanding of tunnelling and other integration technologies

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M107 - Intro to Java and Enterprise JavaBeans on OS/390 and z/OS

Glenn Anderson

Everyone is talking about running Java on OS/390: Java applications, servlets, Enterprise-Java Beans. So what are all these things? What is a Java class, a Java Virtual Machine, a Just-in-Time compiler? Just in time for what? And what exactly is an "EJB" application? Let Glenn sort out all the confusion and leave you ready to tackle the advanced sessions, such as configuring WebSphere and implementing EJB's. All "stupid" questions welcome.

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M108 - z/OS Managed System Infrastructure (msys) for Setup

Franz-Peter Boley

z/OS has started a major ease-of-use initiative with the introduction of z/OS Managed System Infrastructure for Setup (z/OS msys for Setup) as a new base element. msys for Setup offers a new approach for installing and configuring z/OS components and products, resulting in major productivity improvements. msys for Setup is used by Parallel Sysplex in z/OS R1 for setting up a resource sharing environment, and will be used in z/OS R2 by additional z/OS components. This presentation introduces the concepts of z/OS msys for Setup, including a short demo. More technical detail information is provided in session [Z120](#).

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M109 - WebSphere Commerce Suite Today: Version 4 Overview

Dave Hauser

This presentation will attempt to cover the following items. While some technical content will be covered, it will not require extensive technical knowledge.

- Overview of WCS function and strategy in the e-Commerce marketplace Characterization of the runtime requirements/architecture of WCS 4.1 The appearance of Java within WCS and an overview of Java usage Highlighting of new WCS 4.1 features:
 1. Personalization via Rules
 2. Catalog Enhancements to provide bundling and packaging capability
 3. Added support for auctions
 4. Order processing enhancements
 5. Integrated E-mail notification
 6. Overview of Payment infrastructure

- WCS/390 specific enhancements

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M110 - WebSphere Commerce Suite Tomorrow: Version 5 Overview

Dave Hauser

WCS V5.1 has already been shipped for the NT platform. As WCS V5 has been architected to be as consistent across platforms as possible, the majority of the particulars for the NT platform will apply to the WCS/390 V5 release.

WCS V5 is a major departure from prior releases in many ways. This presentation is intended to highlight those changes, o describe new functionality and requirements for V5, as well as to touch upon specifics of the upcoming S390 release of WCS V5. This is not intended to be a highly technical presentation, but an overview of the primary topics of WCS V5. Specifically covered will be:

- The design principles IBM had in mind when creating WCS V5
- An overview of the runtime hardware and software requirements of WCS V5
- An overview of the Java usage and architecture of WCS V5
- An overview of the programming requirements and environment for customization of WCS V5
- Highlights of new function/capability in WCS V5

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M520 - Linux and IBM e-Server, a perfect fit

Karl Strassmeyer

Karl will derive his vision of the role of Linux on the IBM eServer platforms based on his experience with the zSeries evolution in the past and into the future. As godfather of Linux for S/390 he will also describe the culture of the open source community as a major game changer in the industry. Karl will derive his vision of the role of Linux on the IBM eServer platforms based on his experience with the zSeries evolution in the past and into the future. As godfather of Linux for S/390 he will also describe the culture of the open source community as a major game changer in the industry.

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M620 - Value of z/VM for Linux Environments

Reed Mullen

This session will explain the business value and technology advantages of running Linux systems in virtual machines using IBM's z/VM product. Much of the "buzz" surrounding Linux on the mainframe comes from running Linux on VM. Attend this session and you'll see why!

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M720 - Linux Scalability and Competitive Advantage

David Boyes

With Linux entering the large enterprise and having to coexist with existing mainframe (and LAN systems) applications environments, what can we do to ensure that these systems have current and accurate access to existing enterprise data? How does Linux get to that big VSAM file or that database in NT-land? This session will look at some of the methods for accessing and managing data stores in differing environments and explore the options for directly connected, network and SAN-based storage, and backup and recovery solutions available for Linux on S/390 and Intel platforms. Come distribute some of your data, and take home an archive of some of mine...

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M820 - Did you know NUMA is Enabled for S/390?

Mike Augustine

S/390 on the Intel-based NUMA server? You bet. This session will overview an Intel based server capable of running S/390, ptx, Linux applications and more concurrently. This is a scaleable and reliable server with fast fiber connected DASD and proves a new entry point for S/390. Stop by to get the latest information on a exciting new option for running S/390 and more.

V10 zVM and VM/ESA

Includes these session titles:

- [V100](#) - VM Platform: Direction and Discussion
- [V101](#) - z/VM Platform Update
- [V103](#) - VM Support of OS/390 Parallel Sysplex
- [V104](#) - Program Management Binder/Loader for CMS
- [V105](#) - CMS Programming Environment Update
- [V106](#) - Intro to Pipes
- [V107](#) - Intermediate Pipelines
- [V110](#) - Pipelines Lookup; A Swiss Army Knife
- [V120](#) - Intro to The VM Control Program (CP) (Part I of II)
- [V121](#) - Intro to The VM Control Program (CP) (Part II of II)
- [V122](#) - 64-Bit Support in VM
- [V125](#) - New VM Dumptool
- [V140](#) - Using the Enterprise Storage Server with z/VM & VSE

- [V141](#) - Peer-to-Peer Remote Copy for z/VM and VSE/ESA
 - [V142](#) - FlashCopy for z/VM and VSE/ESA.
 - [V201](#) - Intro to TCP/IP
 - [V203](#) - TCP/IP Feature for z/VM (First occurrence)
 - [V205](#) - Intro to SSL
 - [V220](#) - TCP/IP routing (Part 1 of 2)
 - [V221](#) - TCP/IP routing (Part 2 of 2)
 - [V230](#) - Pipeline Web CGI Techniques
 - [V240](#) - An NFS Client for CMS
 - [V271](#) - DB2 for VSE&VM: What's new for V7?
 - [V272](#) - DB2 for VSE&VM Tips, Tricks and Techniques
 - [V274](#) - Exploiting DB2 for VSE & VM for Business Intelligence and e-commerce
 - [V301](#) - z/VM Performance Update
 - [V303](#) - VM Guest Performance
 - [V304](#) - FCON/ESA for VM Performance
 - [V305](#) - Measuring multi-platform Linux systems with VM
 - [V402](#) - Sharing Data Between Linux and VM
 - [V600](#) - VSE/ESA Status and Update
 - [V601](#) - e-business Roadmap for VSE/ESA
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V100 - VM Platform: Direction and Discussion

z/VM is a new VM operating system based on the new 64-bit z/Architecture. z/VM provides a highly flexible test and production environment for enterprises deploying the latest e-business solutions. Built upon the solid VM/ESA base, z/VM exploits the z/Architecture and helps enterprises meet their growing demands for multi-system server solutions with a broad range of support for operating system environments such as z/OS, OS/390, TPF, VSE/ESA, CMS, Linux for S/390, or Linux for zSeries.

This session is an open dialog and discussion with IBM z/VM Product Owner and Platform Manager, to discuss the z/ VM role in the future.

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V101 - z/VM Platform Update

Reed Mullen

Come hear the latest about IBM's next generation of VM technology: z/VM. This session will present an overview of z/VM Version 3 Release 1 and related VM products from IBM. Here's your chance to get a high-level perspective of today's z/VM environment. You'll also get an introduction to z/VM function presented in various sessions through the week.

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V103 - VM Support of OS/390 Parallel Sysplex

John Franciscovich

VM has always supported VSE, and z/OS operating systems as guests, enabling enterprises with VSE, z/OS, and VM to run their diverse applications on the same processor. As z/OS testing has become more complex through the use of Parallel Sysplex technology, VM has responded to this challenge by providing the capability to support the Parallel Sysplex system environment as guests. This session will describe how to use this VM unique capability to virtualize the Parallel Sysplex environment under VM, without the need for a Coupling Facility, Coupling Links, or a Sysplex Timer.

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V104 - Program Management Binder/Loader for CMS

Michael Donovan

In z/VM, CMS hosts the DFSMS/MVS Program Management Binder, and provides a native implementation of the corresponding program object loader functions. Included with this support is a new CMS command, BIND, to invoke the services of the binder to bind and store an executable file containing a program object on DASD (minidisk, SFS, or BFS), and an enhancement to the C89 command to optionally use the binder in place of the combination of the LE prelinker and the LOAD and GENMOD commands. Furthermore, the complete binder API is available to application programs which need to invoke the services of the binder dynamically.

This session covers both the externals and the internals of the new CMS binder/loader support, and also examines its potential role in shaping the future of OS application affinity in CMS.

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V105 - CMS Programming Environment Update

Michael Donovan

V106 - Intro to Pipes

Will Roden

CMS/TSO Pipelines is the most efficient way to write an application that I know of. Some of our customers tell us that they get a productivity enhancement of between 15% and 300% by using Pipelines. This is because Pipelines consists of over 150 "jems" called stages that provide simple but complete function. Each stage is completely tested and provides solid function that is available for use. The stages are combined into Pipelines when you build an application. Pipelines can be used to write the entire application, or just a part of one. During this discussion, I will explain the Pipelines concepts that are needed to get started and I will also expose several useful stages. When we are finished, you will be able to use Pipelines to enhance your applications and start you on the road to increased application productivity.

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V107 - Intermediate Pipelines

Will Roden

Now that you can write simple Pipelines, your next step is to understand multistream Pipelines. This discussion includes: how to write a multistream Pipeline, how selection stages and other stages take advantage of it, and how to write your own REXX stages that handle this concept. This presentation will improve your knowledge in an area of Pipelines that has caused some discomfort.

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V110 - Pipelines Lookup; A Swiss Army Knife

Rob van der Heij

Lookup is one of the more powerful built-in stages of CMS Pipelines, but 10 streams and half a dozen options can be overwhelming for apprentice plumbers. This presentation will introduce the basic principles of lookup and will give some examples to demonstrate how lookup can make your pipelines simpler and more efficient. You will also learn how to write a pipeline that uses feedback to update the reference table and how to make such a pipeline terminate properly.

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V120 - Intro to The VM Control Program (CP) (Part I of II)

John Franciscovich

Do you use your VM system interactively? To run applications? To host a web server? To run another operating system? For something else? All of the above?

Whatever you use VM for, the Control Program (CP) works under the covers as a real machine resource manager. It provides each virtual machine (user) with an individual working environment and access to real processor resources and devices, and allows applications and users to exchange information. Come to this session and get a glimpse of what CP does for you "under the hood" of VM/ESA.

This session will be continued in Session [V121](#), "Under the Covers: The VM Control Program (CP): Part 2."

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V121 - Intro to The VM Control Program (CP) (Part II of II)

John Franciscovich

Do you use your VM system interactively? To run applications? To host a web server? To run another operating system? For something else? All of the above?

Whatever you use VM for, the Control Program (CP) works under the covers as a real machine resource manager. It provides each virtual machine (user) with an individual working environment and access to real processor resources and devices, and allows applications and users to exchange information. Come to this session and get a glimpse of what CP does for you "under the hood" of VM/ESA.

This session is a continuation of Session [V120](#), "Under the Covers: The VM Control Program (CP): Part 1."

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V122 - 64-Bit Support in VM

John Franciscovich

z/VM, IBM's latest VM operating system, operates in a new architectural mode - z/Architecture - which it uses to exploit the 64-bit architecture available on the IBM zSeries 900 processors. This allows z/VM to utilize greater than 2GB of central storage for pageable guests, and facilitates the testing of 64-bit operating systems by allowing for the definition of virtual machines with storage sizes greater than 2GB.

This session will describe how CP was changed to take advantage of the new 64-bit architecture. It will also show you how to utilize the new capabilities introduced with this support and explain how the commands, messages and systems generation process have changed in this new VM operating system.

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V125 - New VM DumpTool

John Franciscovich

z/VM includes a new tool for reading dumps. The VM Dump Tool brings some new technology to the dump reading environment. This session will describe

V140 - Using the Enterprise Storage Server with z/VM & VSE

Bill Worthington

IBM's Enterprise Storage Server (also known as Shark) has been evolving since its announcement in 1999. This session will explore the features and functions of the ESS and how VM and VSE and Linux for S/390 customers might use them.

[Top Agenda](#) or [zSeries Abstracts](#)**V141 - Peer-to-Peer Remote Copy for z/VM and VSE/ESA**

Bill Worthington

In December, 2000, IBM released Advanced Functions for the ESS. This session will focus on using the Peer-to-Peer Remote Copy capability for disaster recovery and for data migration. Both VM and VSE customers can make use of this function. Examples will be provided of the commands required to invoke this.

[Top Agenda](#) or [zSeries Abstracts](#)**V142 - FlashCopy for z/VM and VSE/ESA.**

Bill Worthington

In December, 2000, IBM released Advanced Functions for the ESS. This session will focus on using the FlashCopy capability for making instant images of files and volumes. Both VM and VSE customers can exploit this function. Examples will be provided of the commands required to invoke this.

[Top Agenda](#) or [zSeries Abstracts](#)**V201 - Intro to TCP/IP**

Alan Altmark

This presentation is a gentle introduction to VM TCP/IP. You will learn the elements of a TCP/IP "stack", the major components of VM TCP/IP and its basic software configuration options, as well as some practical information about the IBM Open Systems Adapter.

[Top Agenda](#) or [zSeries Abstracts](#)**V203 - TCP/IP Feature for z/VM (First occurrence)**

Alan Altmark

This presentation discusses the significant enhancements made to the TCP/IP Feature of z/VM. Also included is a summary of the important TCP/IP-related PTFs which have been released for prior releases.

[Top Agenda](#) or [zSeries Abstracts](#)**V205 - Intro to SSL**

Will Roden

In October of 2000, IBM announced an SSL server for VM. This implementation was done using LINUX on VM. I will discuss:

- What is SSL?
- How is the VM SSL Server set up?
- Steps to make it work.

This will give you a better understanding of SSL and SSL on VM.

[Top Agenda](#) or [zSeries Abstracts](#)**V220 - TCP/IP routing (Part 1 of 2)**

Alan Altmark

This presentation discusses the theory and implementation of static and dynamic routing. The mysteries of the GATEWAY and BSDROUTINGPARMS statements are revealed. The second half of this presentation is session [V221](#).

[Top Agenda](#) or [zSeries Abstracts](#)**V221 - TCP/IP routing (Part 2 of 2)**

Alan Altmark

This session is the continuation of session [V220](#)

[Top Agenda](#) or [zSeries Abstracts](#)**V230 - Pipeline Web CGI Techniques**

Will Roden

Several plumbies are using Pipelines in their CGI scripts. I have found three basic techniques that are used. This presentation will show how to use the CHANGE stage for the 1:1 case, and techniques for the 1:M (One to Many) along with the M:M (Many to Many) case. The last case will be demonstrated using the PIPCMD stage. This presentation will improve your knowledge in an area of Pipelines that has caused some discomfort.

V240 - An NFS Client for CMS**Alan Altmark**

In this session you will learn about the Network File System and how to use it with the new NFS client for z/VM.

Top [Agenda](#) or [zSeries Abstracts](#)**V271 - DB2 for VSE&VM: What's new for V7?****Frank Fillmore**

In today's fast-track world, managing vast amounts of data is just part of a day's work. And managing that data effectively makes the difference between getting by and getting ahead. DB2 Server for VSE & VM, a key member of the DB2 Family, provides all the pieces of the puzzle you need to start building your distributed database solution. Learn what's new with DB2 in this session

Top [Agenda](#) or [zSeries Abstracts](#)**V272 - DB2 for VSE&VM Tips, Tricks and Techniques****Frank Fillmore**

Performance tuning DB2 Server for VSE&VM can be more art than science. Frank Fillmore has over 14 years experience troubleshooting and tuning SQL/DS and DB2 databases in decision support and transaction processing environments. Hear about real world challenges and solutions. Come armed with your toughest performance problems.

Top [Agenda](#) or [zSeries Abstracts](#)**V274 - Exploiting DB2 for VSE & VM for Business Intelligence and e-commerce****Frank Fillmore**

Topics will include an overview of IBM Business Intelligence (e.g QMF, DB2 OLAP Server, and Intelligent Miner for Data) and e-Commerce (i.e. WebSphere Commerce Suite) offerings on workstation platforms and integrating workstation products with enterprise data stored in DB2 Server for VSE&VM using DB2 Connect via TCP/IP.

Top [Agenda](#) or [zSeries Abstracts](#)**V301 - z/VM Performance Update****Bill Bitner**

This session will describe the performance changes associated with the new z/VM Version 3 Release 1.0. Areas that will be covered include: regression environments, scenarios with greater than 2 gigabytes of real storage, Secure Socket Layer support, and QDIO gigabit ethernet measurements.

Top [Agenda](#) or [zSeries Abstracts](#)**V303 - VM Guest Performance****Bill Bitner**

How does VM impact the performance of a guest? This session will look at the factors that are involved with guest performance. This includes an overview of CP facilities to improve guest performance. This session will not be specific to any particular guest system. The speaker will describe cases where different guest operating systems behave differently.

Top [Agenda](#) or [zSeries Abstracts](#)**V304 - FCON/ESA for VM Performance****Eginhard Jaeger**

FCON/ESA, a field developed program, is a very powerful VM/ESA performance monitor, and it is also designed to improve operator efficiency and productivity by means of its integrated full screen operating interface. This presentation is intended to give a general overview over the program's capabilities, and to inform about the latest enhancements and future plans.

Top [Agenda](#) or [zSeries Abstracts](#)**V305 - Measuring multi-platform Linux systems with VM****Barton Robinson**

Managing Linux on an S/390 with shared memory, shared processor and even shared DASD is different than managing Linux on a dedicated Intel server, with different problems and different solutions. This presentation reviews technologies, data sources and data presentation for performance analysis and capacity planning for Linux servers, both on S/390 and otherwise.

Top [Agenda](#) or [zSeries Abstracts](#)**V402 - Sharing Data Between Linux and VM****Will Roden**

When SSL was developed on Linux on VM, some interesting techniques were created. This discussion will describe some of them including:

- Moving data from VM to Linux on the same signon
- Moving data using different signons
- Developing Linux applications on VM

This will give you a better understanding of how to develop a Linux application on VM.

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V600 - VSE/ESA Status and Update

Jerry Johnston

Many companies who consider themselves primarily z/OS shops also have VSE installed. VSE may be in a remote location, it may be the result of a merger or acquisition, etc. This session is designed for the z/OS user with questions about VSE. The objective of this session is to answer the question 'What's going on with VSE?' It might also be properly called 'VSE Update for z/OS Users'.

[Top Agenda](#) or [zSeries Abstracts](#)

V601 - e-business Roadmap for VSE/ESA

Jerry Johnston

Many companies who consider themselves primarily z/OS shops also have VSE installed somewhere in the enterprise. This session is designed for the z/OS user who has questions about VSE. The objective of this session is to answer the question 'How can VSE shops address e-business opportunities?' It might also be properly called 'VSE Plans and Strategy for z/OS Users'.

X100 Marketing /Vendor Sessions

Includes these session titles:

- [X101](#) - Introducing TMON for CICS/TS (VSE)
- [X102](#) - A monitoring facility for DB2/VM and DB2/VSE -
- [X103](#) - The Mainframe Unframed:- The Virtual Mainframe Solutions from UMX Technologies
- [X306](#) - Technical Overview of VM Performance Tools (Velocity Software, Inc)
- [X804](#) - Introduction to the tServer
- [X805](#) - For S/390 Developers only - a review of the FLEX-ES powered tServer-D

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X101 - Introducing TMON for CICS/TS (VSE)

Terry McGrath, Landmark System

Landmark Systems Corporation introduces its newest product for the IBM VSE environment. TMON for CICS/TS (VSE) is designed to give Systems Programmers instant information on trouble spots within the CICS/TS environment on a VSE system. In addition, the product allows for the observation and cancellation of rogue transactions from a separate partition, and gives users the ability to automate the cancellation of tasks that exceed previously defined thresholds.

The product differs from its predecessor TMON for CICS (VSE) with outboarded logging and CMF based data collection. Using this technique, users can view all recent and past history without logging onto the CICS/TS partition. This presentation will cover the installation and configuration requirements for the product, and provide a snapshot of all the product features.

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X102 - A monitoring facility for DB2/VM and DB2/VSE -

Antoon Vekeman - Software Product Research

The SQL/Monitoring Facility is a state-of-the-art execution time monitor for DB2/VM and DB2/VSE database systems. The product performs both system-wide and SQL statement monitoring.

The SQL Statement Monitor provides detailed information about all SQL statements submitted to the DB2 server. An exception logging facility registers all SQL statements that do not meet defined performance criteria during their execution. A recording facility is provided to benchmark designated DB2 applications.

These facilities allow database administrators and developers to tune the database and the database applications. In addition, the monitor's Governor function ensures that users do not exceed defined resource usage limits. The product also provides an AutoPrep facility that significantly reduces the CPU load resulting from dynamic SQL statements executed by PC-based, e-business or ERP applications.

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X103 - The Mainframe Unframed:- The Virtual Mainframe Solutions from UMX Technologies

James Lumsden - 390 IT Services BV

UMX Technologies has developed a System/390 emulation engine that allows you to run OS/390 on simple Intel hardware running Windows software. This paper will present the underlying architecture and philosophy of the UMX Virtual Mainframe solution, and will include a demonstration of the product to show its abilities. The product is of particular interest for education, demonstration and software development environments, and companies where S/390 facilities are either starting up or are stable at the lower end of the capacity range.

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X306 - Technical Overview of VM Performance Tools (Velocity Software, Inc)

Barton Robinson

X804 - Introduction to the tServer

T3 Technology, Sam Friedman

T3 Technologies, an Advanced IBM S/390 Business Partner specializing in the under 60 MIPS S/390 marketplace, now offers the European Community the most cost-effective solution for 8 MIPS requirements--tServer! The tServer combines IBM Netfinity hardware with VSE/ESA, VM/ESA, OS/390, and Fundamental Software's FLEX-ES software to provide an 8 MIPS solution that takes advantage of IBM's low ESL one-time charge software pricing structure.

The tServer-D is a specially configured unit designed exclusively for PartnerWorld for Developers members. It is the only Netfinity/FLEX-ES solution that provides free AD/CD's to this community.

The session will review both the technical and business advantages of utilizing a Netfinity/FLEX-ES based solution for low end S/390 requirements.

X805 - For S/390 Developers only - a review of the FLEX-ES powered tServer-D

T3 Technology, Sam Friedman

This session is restricted to members of PartnerWorld for Developers. Topics for discussion include a primer on FLEX-ES, basic configurations, Germany-based support services, and success stories. Special pricing and program details exclusively for Developers will be discussed.