



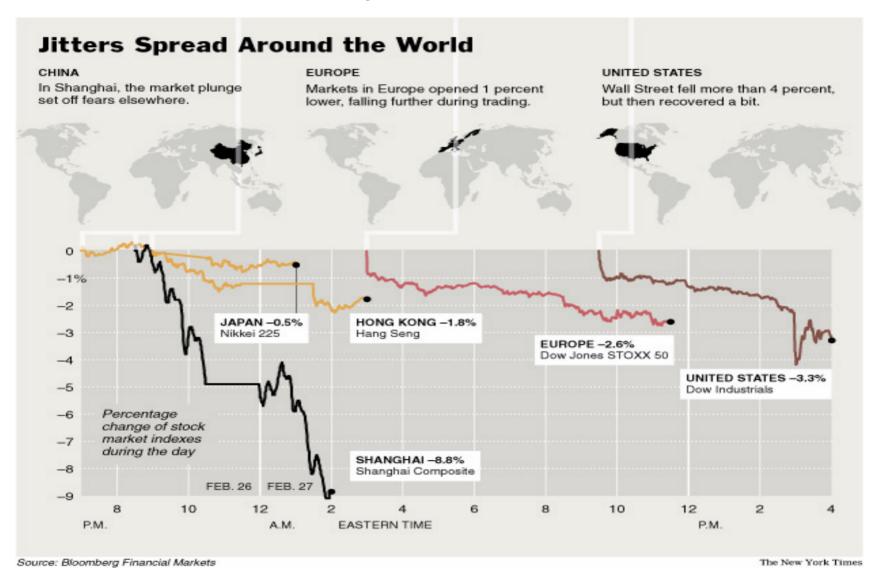


Business Challenges Today





Globalization - February 26, 2007



Scale: India - Relentless Growth

Major Emerging Players

Competing on a Global Scale















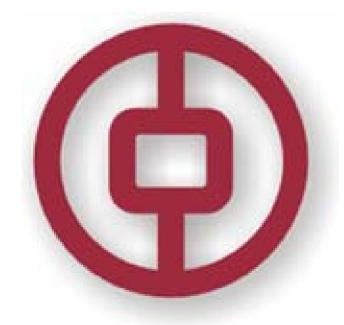
India GDP Growth:

9.4%

Extreme Scalability: Bank of China

Over **350 million** accounts with **three billion** transaction histories





30 milliontransactions in under60 minutes



Security: The Cost of a Breach

Security Flaw Exposes CVS Purchase Data;
50 Million customers exposed The Washington post

MasterCard security breached MarketWatch

More than 40 million cardholders may be affected

Ohio Sues DSW Over Customer Data Theft

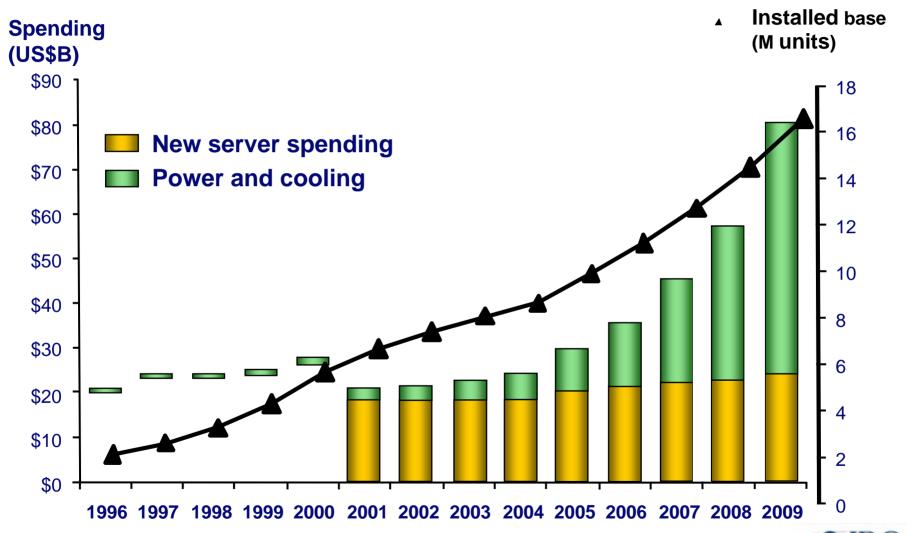
ConsumerAffairs.Com[®]

Bill would punish retailers for leaks of personal data THE WALL STREET JOURNAL.

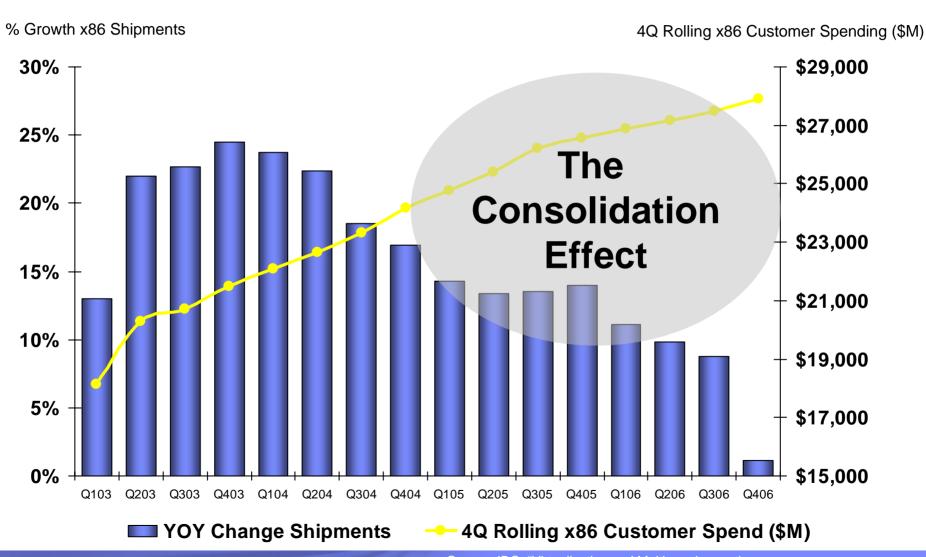
Rogue Software Programmed to Wreak Havoc on Target Web Sites



Power and Cooling Costs

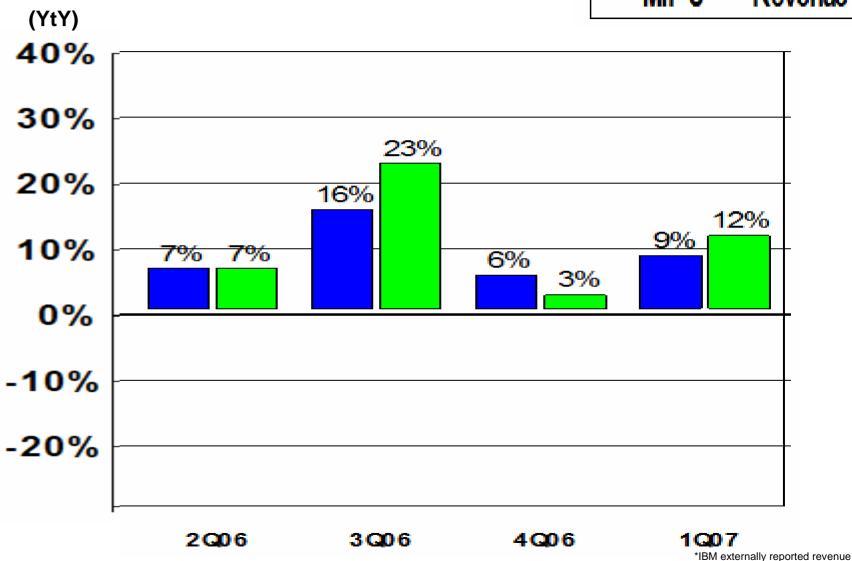


Virtualization

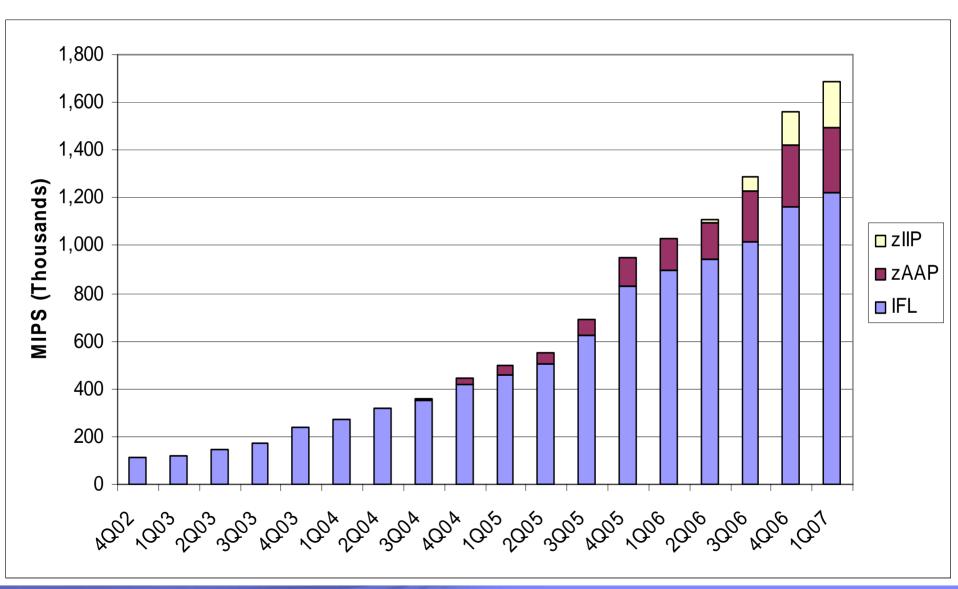


Mainframe MIPS and Revenue

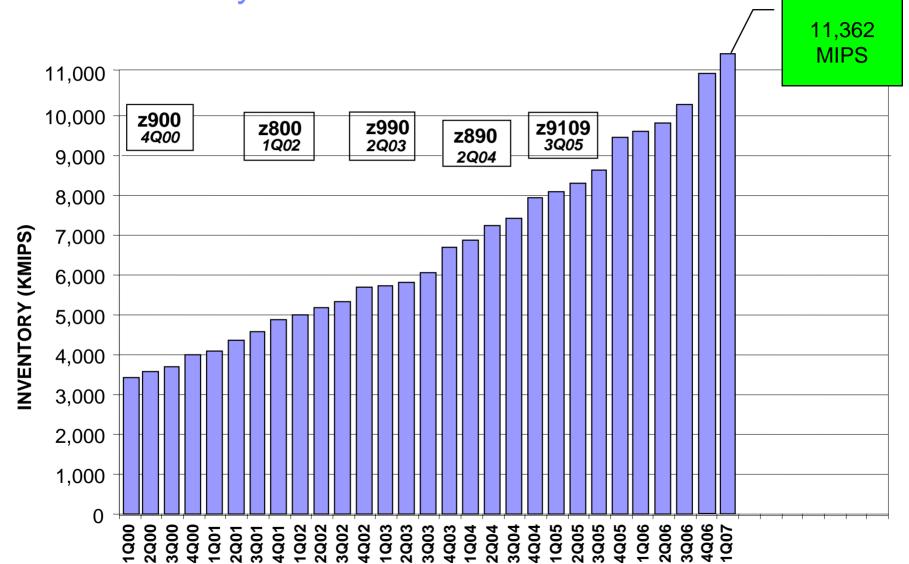




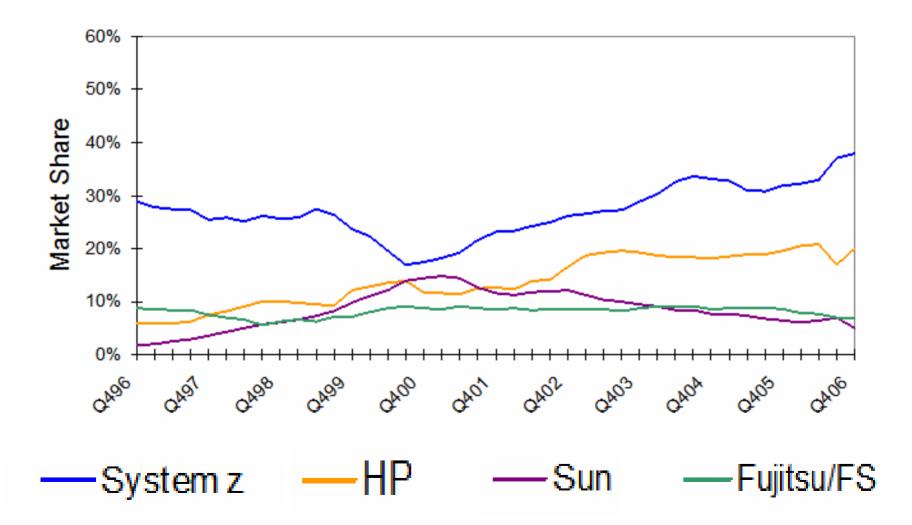
Specialty Engine MIPS Growth



MIPS Inventory Growth



Market Share Trend





Major Milestones

- ☐ 4Q06 largest hardware revenue quarter since 4Q98
- 11 million MIPS installed
- ☐ Used by top 25 banks in the world
- □ Record year for specialty engines
- □ \$1 Billion in revenue influenced by Global Systems Integrators
- ☐ Entered online gaming business: Hoplon Infotainment





Extreme Reliability: Eberspächer

Global Supplier of Specialized Components to the Automotive Industry



- Minimize risk of downtime
- Consolidate to a single production data center
- Replicate business critical data across the 200km between existing data centers.

Solution

Long-distance data replication for SAP on the mainframe



Key Benefits

- ✓ Reduced hardware spend while keeping administration costs stable
- ✓ Continuous mirroring to backup site 200km away
- ✓ High protection for business-critical data

System z Linux: Telemar

Largest provider of fixed-line telecommunications services in South America.

Consolidated 16
geographically dispersed
servers on a centralized
System z9 EC server
running SuSE Linux





Benefits:

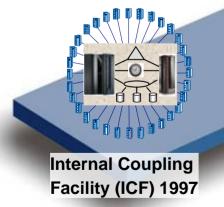
- Open-standards-based solution
- Maximized manageability, scalability, security and availability of its key business systems.
- Reduced need for server capacity by one-third
- Lowered operating and administration for maintaining email server applications.



Mainframe Innovation: Specialty Engines

Open Standards and Open Source

Centralized data sharing across mainframes





Integrated
Facility for Linux
(IFL) 2001



IBM System z
Application Assist
Processor (zAAP) 2004

IBM System z9
Integrated Information
Processor (IBM zIIP)
2006

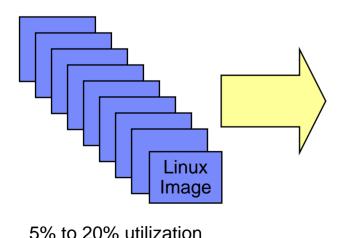


The Economics of Workload Consolidation

- Distributed servers = 5% to 20% utilization
 - Production, development and test servers
- Virtualization and workload management enable consolidation on the mainframe
 - Multiple images on fewer processors
 - Utilization levels of 85% or more

Lower TCO

Lower energy and facility costs



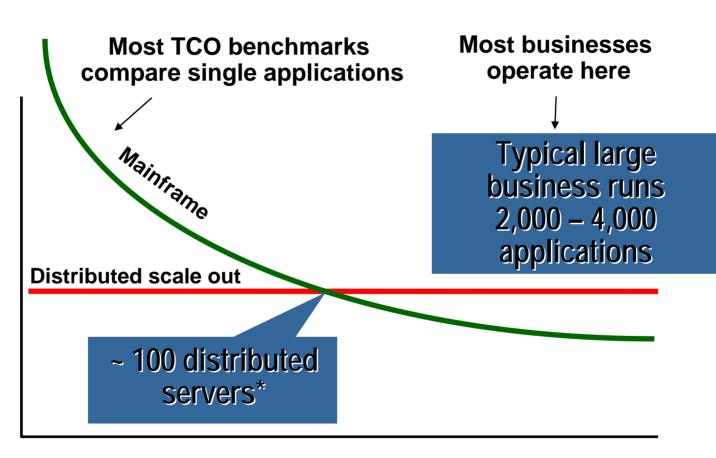


Full utilization

Reduced complexity and management costs

Mainframe: Lower TCO

Cost per unit of work

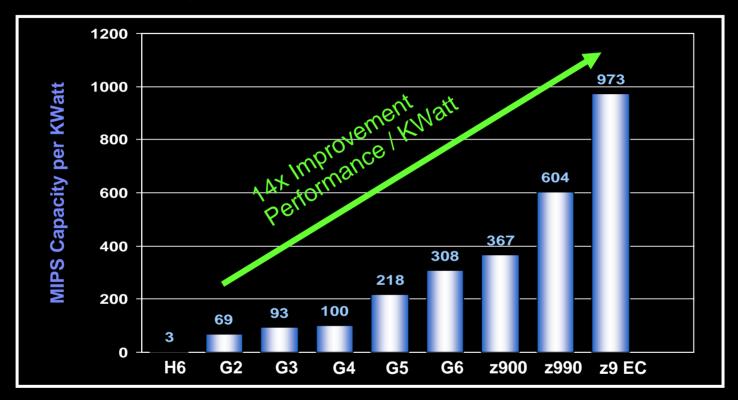


Data Center Workload



System z is Lean and Green

System z energy efficiency gains

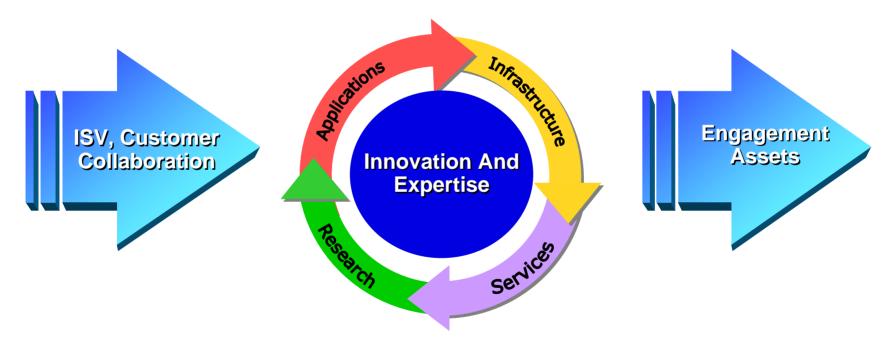


1/12 the Power in 1/4 the Floor Space





Transform back office processing systems for banking clients



Be the Trusted Intermediary

Provide Global Coverage

Lower the Risk

ISV Ecosystem Growth







































ISV Ecosystem Growth

 70+ new WebSphere® and DB/2 z/OS applications in six months











30% growth in Linux:380 ISVs and 1036applications today













WebSphere



1600+ applications on z/OS 1.7 and above











Increased investments



System z Growth with Systems Integrators

\$1B System z influence revenue

Steady growth for 3 years

Tripled System z resources for SIs

- Business development, IT architects
- Classes, workshops, training
- Equipment for development/test and training

Now Announcing: System z for SIs

- Application Modernization
- SOA
- IT Resource optimization
- ERP SAP and Oracle

SI-Influenced Client Examples



- Savings in cooling, maintenance, SW and equip
- Optimized CPU Utilization
- Greater operational and managerial efficiencies



- Reduced MIPS from 1200 to 700
- zAAP WebSphere Workload
- Reduced MIPS from 1200 to 700

IBM Services and Expertise for System z



Solutions that optimize IT systems and processes – helping clients achieve faster ROI

Over 20 Service Product
Offerings

5000 Skilled Services
Professionals supporting
the mainframe



Solutions that ensure critical business data and systems are available – helping clients stay open for business 24/7



Solutions that allow clients to be resilient, quickly respond and recover from disasters and crises with agility – helping clients prepare for the future



Simplifying the Mainframe

\$100 million mainframe simplification investment

328 Colleges and Universities

42,000 new students





Fill the pipeline with <u>new talent</u>:

- IBM Academic Initiative
- New Customers in Emerging Markets
- ISV applications for new workloads



Reduce complexity:

- Eliminate, automate, and simplify tasks
- More Open z Software Stack
- Mainframe as SOA Hub

















































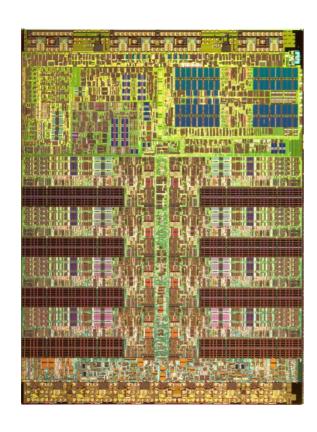












Cell Broadband Engine



IBM System z

Mainframe Power for Virtual Worlds and Gaming









Cell Broadband Engine



IBM System z

Mainframe Power for Virtual Worlds and Gaming









Cell Broadband Engine



IBM System z

Mainframe Power for Virtual Worlds and Gaming









Cell Broadband Engine



IBM System z

Mainframe Power for Virtual Worlds and Gaming



Announced Today...

IBM Launches Destination z

More than 20 IBM Business Partners and leading systems integrators

System z for SIs

zSecure V1.8.1 suite

Helps administer mainframe security servers, monitor threats, audit usage and configurations, and enforce policy compliance

IT Value Based Analytics (ITVBA)

Drives IT cost transparency

Turbo-charged z/VM

10x more virtualized memory and up to 256 GB of real memory

Implementation Services for Parallel Sysplex

Service product designed to help clients implement and optimize a clustered mainframe environment.

Client & Partner Guests Today

Customers

Hoplon Infotainment, Tarquinio Teles, CEO

Showcased:

Main Tent

"IBM System z: The Ultimate Virtualization Platform"

Baldor Electric, Mark Shackleford, Vice President

Showcased:

"Leveraging the Value of the Mainframe to Deliver Information on Demand"

Ball State University, Dr. O'Neal Smitherman, VP of Information Technology & CIO Showcased:

"When and Why to Deploy New Workload to System z"

Partner Participation			
Resellers	Representatives	System Integrator	Representatives
Mainline Information Systems	Roger Luca	Sogeti	Jean-Marc Gaultie
Sirius Computer Solutions	Rick Bailer		
Novipro	Yves Paquette	<u>ISVs</u>	
MOLO	01 011	Talle and Pa	Descrip Tale

IVISI Systems Integrators	Steve Gilles	Telcordia	Dennis Tinley
Vicom Infinity	Tom Amodio	Innovation Group	Andrew Labrot
Jeskell	Steve White	Infor-Workbrain	Bill Gerber
PSR	Glen Baker	Information Builders	Adam Cohen
Berbee	Mike Grone	Microfocus	Mike Waters



Today's Academic Guests

Professors			
Dave	Dischiave	Syracuse University	Professor, School of Information Studies
Susan	Dischiave	Syracuse University	Professor, School of Information Studies
Suk Chong	Yoon	Widener University	Professor - Chairman of Computer Science Department

Students			
Adam	Shea	University of Toledo	Computer Science & Engineering Technology Major
Anthony	Cocuzza	Marist College	Graduate Student - Computer Science
Daniel		Marist College	Senior - Computer Science
David	Neuburger	Northeastern Illinois University	Graduate Student - Computer Science
Fu-Ching	Hsiao	Widener University	Junior - Computer Science
Jason	Rudolph	Widener University	Junior and Student Manager at Mainframe Lab
John	Stoddart	Widener University	Computer Science Lab Technician
Noah	Pascarell	Widener University	Junior and Student Manager at Mainframe Lab
Shiva	Ramasamy	Widener University	Junior - Computer Science
Troy	Crutcher	Illinois State University	Information Systems - Systems Development
William	Burke	Widener University	Junior - Computer Science

Today's Break-out Sessions



Enterprise IT and the Modern Application Architecture Danny Sabbah, General Manager, Rational Software	Expanding the System z Ecosystem Jim Corgel, General Manager, ISV & Developer Relations - Software Group Florence Hudson, Vice President, System z Marketing and Strategy
When and Why to Deploy New Workloads to System z Tom Rosamilia, General Manager, Application & Integration Middleware	IBM System z: The Ultimate Virtualization Platform Reed Mullen, Product Manager, System z Virtualization Technology
Leveraging the Value of the Mainframe to Deliver Information on Demand Ambuj Goyal, General Manager, Information Management Software Jeff Josten, IBM Distinguished Engineer, DB2 for z/OS Development	The Mainframe - A Revolutionary Low-cost Platform John Shedletsky, Vice President, Competitive Technology, SWG
Mainframe Simplification: The Road Ahead Jose Castano, IBM Systems & Technology Group, System z Program Director, System z Strategy & Technology	IBM System z Strategies and Directions Jim Porell, Distinguished Engineer; Chief Architect, IBM System z Software
Aligning End-to-End Systems Management, Security, and Costs with Enterprise Business Services Al Zollar, General Manager, Tivoli Software Mark Lynch, IBM Tivoli Usage & Accounting Manager	Executive Q&A and Closing Remarks Steve Mills, Senior Vice President and Group Executive, SWG Jim Stallings, General Manager, IBM System z





