

Will It Run on System z? Including the *new* IBM zEnterprise System!

Session: 7625

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SHARE in Boston

Agenda

- IBM middleware products available
 - System z
 - Linux on System z
- ISV applications/products available on System z
- Request new ISV applications & middleware products
- IBM ISV System z assistance
- Fit for Purpose systems
- *New* IBM zEnterprise System integrates many new applications via the BladeCenter Extension (zBX)

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Domino*	Informix*	System z*	WebSphere*	z10 EC
				zEnterprise System
				z/VM*

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Notes:

Performance is in Internal Throughput Rate (ITR) ratio based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput improvements equivalent to the performance ratios stated here.

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IBM Software Products for IBM System z



- [ibm.com](http://www.ibm.com) to start
 - Search for products
 - Announcement Letters
- <http://www-01.ibm.com/common/ssi/index.wss>

United States [change]

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Test-drive mainframe development — on x86 Linux® computers

IBM Rational® Developer for System z® Unit Test can revolutionize the way you develop and test z/OS applications

[→ Learn more](#)

Mainframe software for IBM System z

What we offer
Products, solutions, events and resources for:
Mainframe applications
Develop, integrate, modernize and deploy your applications and new workloads - including Rational Developer, CICS, WebSphere Application Server, MQ, Portals, and more
Mainframe data management
Empower your information with databases, tools, data warehousing, content management, business intelligence/analytics - including DB2, IMS, InfoSphere, Cognos and more
Mainframe service management
Effectively manage mainframe performance, availability, workloads, software assets, provisioning, storage, security and SNA & IP - including Omegamon, ITCAM and more
Mainframe software for Linux
Reduce complexity and cost, and extend the flexibility of the mainframe for cloud computing, advanced virtualization and consolidation, and ISV performance

More System z software links
Find more System z software resources in the extensive listing:
 [Select one](#)

Boost business intelligence - scaled to the max
Moving the BI environment to Cognos on System z enables client to share the latest BI with 10,000 stakeholders
[Watch the video\(00:04:52\)](#)
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Redbooks
System z on the go: access z/OS from your smartphone
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http://www-01.ibm.com/software/os/systemz/en_US/?pgel=ibmhzn&cm_re=masthead-_products_-_sw-sysz

IBM Middleware Products - *Linux on System z*

IBM Linux Portal - IBM Middleware Available on Linux



The IBM Middleware Available on Linux: **find information on key offerings such as DB2, WebSphere, Informix, Lotus Domino, Rational, Tivoli, CICS**

- Product name and version
- Links to product pages
- Linux distribution and kernel support
- Related sources of additional information: announcement letters, product matrix, download Web sites, FAQs, release notes

IBM Middleware Available on Linux

The IBM Middleware Available on Linux matrix provides information regarding IBM Middleware availability on Linux. You can find information such as:

- Product name and version
- Links to product pages
- Linux distribution and kernel support
- Related sources of additional information

Document Options
 → [Using the IBM Middleware Available on Linux Matrix](#)
 → [Where's my product?](#)
 Last Update
 March 05, 2010

Use the link list below to search the matrix by IBM System and by IBM Brand.

IBM System x

- [Information Management](#)
- [Lotus](#)
- [Rational](#)
- [Tivoli](#)
- [WebSphere](#)
- [All brands](#)

IBM System i/p

- [Information Management](#)
- [Lotus](#)
- [Rational](#)
- [Tivoli](#)
- [WebSphere](#)
- [All brands](#)

IBM System z

- [Information Management](#)
- [Lotus](#)
- [Rational](#)
- [Tivoli](#)
- [WebSphere](#)
- [All brands](#)

<http://www-03.ibm.com/linux/matrix/>

Example of Tivoli Products in Matrix



SHARE

Tivoli software	Version - Release	Hardware	Distributions	Dates/Dependencies
IBM Change and Configuration Management Database	7.1.1	System z	<ul style="list-style-type: none"> - Red Hat Enterprise Linux (RHEL) 5.0 - Red Hat Enterprise Linux (RHEL) 4.0 - SUSE Linux Enterprise Server (SLES) 11.0 - SUSE Linux Enterprise Server (SLES) 10.0 - SUSE Linux Enterprise Server (SLES) 9.0 	Announced: 2008-04-22 eGA: 2008-05-16 pGA: 2008-06-13 - Announcement letters
IBM Change and Configuration Management Database	7.2	System z	<ul style="list-style-type: none"> - Red Hat Enterprise Linux (RHEL) 5.0 - Red Hat Enterprise Linux (RHEL) 4.0 - SUSE Linux Enterprise Server (SLES) 10.0 - SUSE Linux Enterprise Server (SLES) 9.0 	Announced: 2009-11-17 eGA: 2009-11-20 pGA: 2009-12-11 - Announcement letters
IBM License Metric Tool	7.2	System z	<ul style="list-style-type: none"> - Red Hat Enterprise Linux (RHEL) 5.0 - Red Hat Enterprise Linux (RHEL) 4.0 - SUSE Linux Enterprise Server (SLES) 10.0 - SUSE Linux Enterprise Server (SLES) 9.0 	Announced: 2009-07-28 eGA: 2009-07-31 pGA: 2009-08-21 - Announcement letter search
NEW! IBM License Metric Tool	7.2.1	System z	<ul style="list-style-type: none"> - Red Hat Enterprise Linux (RHEL) 5.0 - Red Hat Enterprise Linux (RHEL) 4.0 	Announced: 2009-07-28 eGA: 2010-04-09 pGA: 2010-04-30

IBM Middleware Products - *Linux on System z*

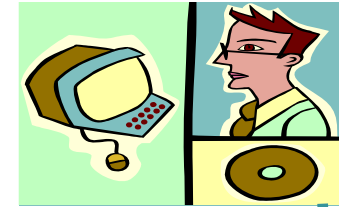
- Are there IBM middleware products not available on Linux on System z today that you would like to run there?
 - If yes, name them and why run on System z?
- What IBM middleware products do you run on distributed Linux systems?
 - Do they access data on System z?

IBM – Working with customers and ISVs to build a robust ecosystem

Independent Software Vendors



SHARE
Technology • Connections • Results



Customer is key!
Drives requirements into IBM

- Account Reps



Account Planning Database

- Client Project Management (CPM) process



Prioritized list of ISVs and applications



Team w/ ISV to enable on z

- System z for ISVs
- Chiphopper



Satisfied customers with the applications needed on the System z platform

ISV Products on System z - *Global Solutions Directory*



- Search the *Global Solutions Directory* for offerings from IBM Business Partners
- 1000s of providers
- Can tailor search to specific criteria, like **System z** and Linux
 - At all PartnerWorld levels
 - From all industries
 - Worldwide

Worldwide [change]

PartnerWorld

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Global Solutions Directory

IBM Business Partners:
Market your solutions to a worldwide audience

The Global Solutions Directory is the IBM repository of Business Partner offering information. Creating a thorough entry for your solution in the Global Solutions Directory represents a critical step in marketing with IBM. These entries become an integral part of IBM marketing programs, generating exposure with clients, other IBM Business Partners and the IBM sales network. This international resource is available worldwide in ten languages.

To get started, click on "[Manage solutions](#)" in the menu on the left. For more information, view the [tutorial for Business Partners](#).

Alternatively, the IBM Business Partner Application Showcase represents specialists who have demonstrated expertise in a particular industry. Learn more about the IBM Business Partner Application Showcase by [visiting the site](#).

Customers:

You may search the Global Solutions Directory for offerings from IBM Business Partners at all membership levels, from all industries, worldwide. Click on "[Search solutions](#)" in the menu on the left to access detailed information about products from thousands of providers. If you prefer to limit your search to companies with proven success specific to your industry, please visit the [IBM Business Partner Application Showcase](#).

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Find a solution

→ Search for solutions now!

Learn more

→ Tutorial for Business Partners (available in English only)

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Global Solutions Directory - Search



- System z platform search results

IBM PartnerWorld > Global Solutions Directory >

Search results

Your search found 2,860 results.

Sort results by:

Go to entry number:

1 to 25 of 2860 results [Next](#)

Premier	
ABG S.A.	SERAT2.x Billing and Customer Care solution offering the possibility of gathering information about services rendered within the network of a stationary telephony operator; assures the operator verification and unification of information and its rating and invoicing, payment service as well as potential vindication of receivables.
ACI Worldwide	BASE24-eps BASE24-eps provides a full range of functionality to support payment transactions – both the traditional transactions that institutions manage today (branch transactions, debit and credit at the ATM and point of sale, or telephone banking) as well as the transactions of the future (mobile commerce and Internet banking).
ACI Worldwide	ACI Proactive Risk Manager ACI Proactive Risk Manager is an intelligent transaction monitoring tool that detects and alerts fraud and suspicious account and transaction activity, while facilitating effective counter measures.
ACI Worldwide	Essentis Issuer Essentis Issuer is an innovative payment card solution supporting national and international financial institutions and processors. It offers competitive advantage, speed to market and customer focus, and enables multi-delivery channel operation. It has full multi-currency, multi-institution and multi-language capability.

Current search criteria

Keywords & options

- Show solutions updated since 2008-06-01
- Sort results by Partner level
- Search language: English

Hardware platforms

- IBM System z (Mainframe)

IBM Business Partner Application Showcase



- For companies with proven success specific to a specific industry
- Navigate to the IBM Business Partner Application Showcase from the Global Solutions Directory
- e.g.: *Banking, Education, Energy, Financial markets, Government, Healthcare and life sciences, Insurance, Manufacturing, Media and entertainment, Retail, Telecommunications, Travel, Transportation, & Wholesale*
- Detailed selection by platforms, operating systems, etc. also available

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[PartnerWorld]
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Business Partner Application Showcase

Search IBM Business Partner solutions to help solve your business needs.

Grow, accelerate and run your business competitively in today's fast-paced marketplace. Gain immediate access to business solutions for your industry from the Business Partner Application Showcase, a suite of IBM Business Partner industry expert solutions developed on IBM technologies that can be adapted to address your immediate business needs. Connect with IBM Business Partners to gain more in-depth information on their solutions and how they can best serve you!

Click below to get started!

Select an industry network

Find business solutions developed by IBM Business Partners with industry expertise:

- Banking
- Education
- Energy
- Financial markets
- Government
- Healthcare and life sciences
- Insurance
- Manufacturing
- Media and entertainment
- Retail
- Telecommunications
- Travel and transportation
- Wholesale

Or, try one of our popular searches:

- Business intelligence
- Content management
- Customer relationship management
- Digital media
- Enterprise resource planning
- Pervasive wireless
- Product lifecycle management
- Security
- Supply chain management

IBM Systems & Technology

IBM Servers

- System z (Mainframe)
- System p (pSeries)
- System i (iSeries)
- System x (xSeries)
- Blade Servers
- Cluster Servers

IBM System Storage & TotalStorage

- Disk Storage
- Tape Storage
- Storage Area Networks
- Network Attached Storage

IBM Point of Sale & Self Service

- Point of Sale & Self Service

IBM Semiconductor Solutions

- IBM Semiconductor Solutions

→ View all

Search applications

Select a language for the Business Partner Application Showcase

For more information:

Customers:

- Client success stories

Quick links to special solutions:

- IBM Industry Frameworks Showcase
- Software as a Service Showcase
- Dynamic Infrastructure Specialty
- Built on IBM Express Advantage Offerings
- Semiconductor solutions
- IBM Lotus Business Solutions Catalog
- IBM WebSphere Portal Business Solutions Catalog
- IBM Tivoli - ISM Library
- IBM Destination z solutions

Business Partners:

- Add your application to the Showcase

IBM Business Partner Application Showcase



- Banking Framework example

The screenshot shows the IBM Business Partner Application Showcase website. The main heading is "IBM Banking Industry Framework". Below the heading, there is a description: "A banking specific software platform for IBM software, assets and services. The Banking Industry Framework includes assets that quicken the adoption of renovated architectures, industry standards and ISV applications. With the framework, companies can re-use software assets across projects to drive greater return on investment." Below this, it states "IBM Banking Industry Framework has four domains:" followed by a numbered list of four domains: 1. The payments and securities domain, 2. The integrated risk management domain, 3. The customer care and insight domain, and 4. The core banking transformation domain. Below the list, there is a paragraph about how the framework helps clients leverage technology for smarter outcomes. At the bottom, there is a list of bullet points describing the framework's offerings: Banking solutions, Applications, Software, Services, and Technology. On the right side, there is a "Select a language" section and a "Learn More - IBM Industry Frameworks Validation Program" section with a list of links to various industry frameworks.

Worldwide [change]

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Business Partner Application Showcase

IBM Banking Industry Framework

[IBM Banking Industry Framework](#)

A banking specific software platform for IBM software, assets and services. The Banking Industry Framework includes assets that quicken the adoption of renovated architectures, industry standards and ISV applications. With the framework, companies can re-use software assets across projects to drive greater return on investment.

IBM Banking Industry Framework has four domains:

1. The **payments and securities** domain provides integrated solutions to help create a competitive edge for renovating, consolidating and simplifying your company payment environments.
2. The **integrated risk management** domain supports a holistic approach to managing financial risk, financial crimes, operational and IT risk, and compliance.
3. The **customer care and insight** domain helps build a foundation for creating a single view of the customer and enabling more effective and efficient sales and service.
4. The **core banking transformation** domain allows companies to modernize and renovate the legacy applications that support core banking functions while aligning with the changing needs of the business.

The Banking Industry Framework helps clients leverage technology for smarter outcomes. Integration, Optimization, Analytics, Collaboration, Security and Resiliency are at the center of this comprehensive framework that accelerates solution deployment. It gives you speed, flexibility and choice in deploying solutions while reducing cost and risk. It provides the software foundation for end-to-end IBM banking solutions such as:

- **Banking solutions** that address the diverse business and IT needs of clients through integrated IBM offerings
- **Applications** are provided by IBM best-in-class independent software vendor (ISV) Business Partners
- **Software** that supports banking solutions is delivered by the IBM Banking Industry Framework
- **Services** help clients maximize their investments, decrease costs, and realize value more quickly
- **Technology**, including hardware and storage, supports flexible and scalable solutions in a dynamic infrastructure

[IBM Banking Industry Framework](#)

Select a language

Select a language for the Business Partner Application Showcase

English

Learn More - IBM Industry Frameworks Validation Program

- IBM Banking Industry Framework
- IBM Health Integration Framework (HIF) - SOA for Healthcare
- IBM Industry Frameworks for Government
- IBM Insurance Industry Framework
- IBM Product Development Integration Framework (PDIF)
- IBM Retail Industry Framework
- IBM Service Provider Delivery Environment Framework (SPDE)
- IBM Solution Architecture for Energy & Utilities Framework (SAFE)

ISV Application on System z

- Are there ISV applications not available on System z today that you would like to run there?
 - If yes, name them and why run on System z?
 - Linux on z or z/OS?
- What ISV applications do you run on distributed systems?
 - Do they access data on System z?



- A vibrant community to help you make the most of your mainframe
- It is designed to be a comprehensive repository of information and support
- IBM Destination z brings together details of products and offerings available from IBM and IBM Business Partners as well as resources from members of the Academic Community



Welcome to IBM Destination z

The IBM home for the mainframe community. Your entry point to:

- Learn about System z and what it can do for you
- Gain skills to help you deploy mainframe solutions
- Reach out to others in the mainframe community
- Find key IBM Business Partners and their mainframe solutions
- Contact schools around the world to take advantage of their mainframe programs and augment your team with recent graduates



The community speaks
Destination z members talk about the IBM mainframe ecosystem and its benefits.

- Blog: SOA and z at IMPACT 2009! Meet HostBridge!
- Blog:DataDirect at IMPACT 2009 - From SQL to SOAP to Events!
- Blog: Sandy Carter: Service Oriented Architecture (SOA) -- Off the Record
- ▶ Watch the Destination z member video
- ▶ Get Adobe® Flash® Player

What's new

- ▶ System z as a Cloud for Business Services - Available Today to Meet the Needs of Tomorrow
- ▶ Illuminata Analyst Paper - April 2009 - Gordon Haff - IBM System z and the Cloud.
- ▶ Speak French? Hear how Sogeti and IBM are working with a client through their Mainframe Academy program
- Announcing Enterprise Modernization to help you reduce cost, save time, and lower risk
- IBM unveils its vision for a dynamic infrastructure to help IT improve service, reduce costs, and manage risk.
- System z10 Business Class revealed in 3D. Take the online tour--open it up, pull it apart, and look at it from the inside out.
- ▶ Follow Twitter for the latest System z news and activities
- IBM responds to the competition: Get the facts

▶ **IBM DESTINATION Z PARTNERS LISTED BY SOLUTION AREA**
▶ **VIEW ALL IBM DESTINATION Z ACADEMIC MEMBERS**

Participate and learn

- Destination z blog
- Blog—Common Sense, the simple truth about the mainframe
- New to System z: Mainframe basics
- Destination z Discussion forum
- Blog—Enterprise Class Innovation: System z Perspectives
- Visit the COBOL Café: An online community for COBOL developers
- ▶ Share user community
- ▶ Guide Share Europe
- System z Sandbox: Try our latest products in a free virtual online environment
- Academic Initiative System z program
- IBM Systems z Mainframe Training

<http://ibm.com/systems/destinationz>

IBM Linux Integration Center



- The Linux Integration Center (LIC) helps customers deploy solutions that feature IBM Middleware and Linux.
 - Proof of concepts, best practices and initial deployment support
- Helps business partners who want to develop and deliver an integrated software solutions on Linux

The screenshot shows the IBM Linux Integration Center website. The top navigation bar includes the IBM logo, a search bar, and links for Home, Solutions, Services, Products, Support & downloads, and My IBM. The main content area is titled "IBM Linux Integration Center" and "Integrating IBM software-based solutions on Linux". It features a "What is the IBM Linux Integration Center" section, a "Featured Linux Whitepaper" section, a "Linux & IBM News" section, and a "Highlights" section. The "What is the IBM Linux Integration Center" section describes the LIC as a worldwide pre-sales technical support and integrated-solution team. The "Featured Linux Whitepaper" section highlights a whitepaper by IDC. The "Linux & IBM News" section lists several news items. The "Highlights" section features a story about Freeform Dynamics and another about IBM's role in the Linux Foundation.

IBM & the Linux >

IBM Linux Integration Center

Integrating IBM software-based solutions on Linux

What is the IBM Linux Integration Center

The Linux Integration Center (LIC) is a worldwide pre-sales technical support and integrated-solution team. We are dedicated to bringing Linux Technology to the marketplace by removing technical inhibitors for our customers and business partners who wish to deploy IBM software on Linux. We have broad skills in Linux operating systems (Red Hat and Novell SUSE Enterprise Linux distributions), IBM Middleware (Enterprise, Express and Community Edition), development tools and hardware platforms, along with the expertise and experience to put it all together.

The Linux Integration Center provides two types of technical assistance:

- The LIC helps new midmarket customers looking to deploy solutions that feature IBM Middleware and Linux. Our services include proof of concepts, best practices and initial deployment support. Contact your IBM sales representative for more information.
- The LIC helps business partners who want to develop and deliver an integrated software solutions on Linux. The LIC has pre-funded resources available to help define and build the right solution stack. This can include the hardware, operating system, Middleware, applications and tools needed to allow your solution to be fully installed and configured with minimal interaction and services by your staff. We will work with your technical staff to create a repeatable but expandable solution stack which they can use as a basis for new or modified solutions as future opportunities dictate. Having these skills and assets in-house will allow your company to respond much quicker to new opportunities. We also have marketing and sales resources that are available to jointly build and take the solution to market. This service is available to [PartnerWorld](#) members. If you would like to explore the integrated build and delivery of one of your applications or business solutions please contact us at: swglic@us.ibm.com. If you're not a member of IBM's [PartnerWorld](#) you can get started now at [PartnerWorld](#).

IBM Linux Integration Center Locations

- Austin, Texas
- Charlotte, North Carolina
- Boeblingen, Germany
- Bangalore, India
- New Delhi, India
- Beijing, China

Featured Linux Whitepaper

IDC explores how and why Linux has become thoroughly established for core business-critical workloads.

→ Read it here.

Linux & IBM News

- IBM Introduces New System z Linux Solutions for...
- IBM Introduces New Software to Accelerate Workload...
- Africa Embraces Linux, Cloud through IBM Client for Smart...
- IBM Announces Sweeping Initiative to Address Major Shift...
- IBM and Canonical Launch Linux- and Cloud-based Desktop...

More Linux & IBM news

- IBMers learn how to add this module

Highlights

- Easier than you think Freeform Dynamics finds that yes, cost certainly is a key reason to switch to a Linux desktop.
- Real Time: Latency Matters Learn more about real-time Linux and Java™ solutions!
- Fostering Linux's Growth IBM is a platinum member of the Linux Foundation. Learn more about the LF (and membership) here.

Resources for Customers & ISVs – *Innovation Centers*

- **Technical and training resources:**
 - **IBM Innovation Centers**
 - 40+ WW centers
 - Remote connection to latest System z hardware and software
 - Training and one-to-one technical assistance to build and test your solutions
 - Linkage to IBM's sales support for sales opportunity assistance
 - Collaboration opportunities with IBM, other Business Partners, IT professionals and academia



<http://www-304.ibm.com/isv/spc/>

Resources to Assist ISVs – Chiphopper Program



- **Chiphopper is a** offering designed to help in porting, testing, and supporting your existing Linux® x86 applications on other IBM Systems and middleware platforms, including **System z**
 - Source Code Testing and Checking Tool analyzes Linux application to see whether it can be immediately ported to IBM's supported platforms; recommend potential fixes If any portability issues
- No-charge offering for ISVs provides assurance of assistance for up to 18 months after your port

(Chiphopper: named for its capability allowing ISV applications to easily move, or "hop," across various chips)

The screenshot shows the IBM PartnerWorld website page titled "IBM Systems Application Advantage for Linux (Chiphopper)". The page features a navigation menu on the left with categories like Marketing, Selling, Technical, and Support. The main content area includes a "Chiphopper process" diagram with five steps: 1. Enroll in the program, 2. Check application for portability, 3. Port/rehost to new server, 4. Ready for IBM Systems with Linux mark, and 5. Application assurance* up to 18 months. Below the diagram, there are sections for "Expand market reach of your commercial Linux applications", "Assure your customers' Linux investment", and "Display the mark". A "Get started" section provides a self-assessment questionnaire (45KB) and a link to begin the Chiphopper process. The right sidebar contains a "Membership" section with links to "Join PartnerWorld", "Member sign in", and "Need assistance?", as well as a "Find Business Partners" button. A "We're here to help" section features a "Contact PartnerWorld" button. A "Highlights" section lists "See all technical validation offerings", "Find validated solutions", and "Using validation marks and logos".

System z ISV Ecosystem

Dramatic growth responding to market demand

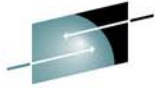
- * 1,650 + ISVs developing for System z Ecosystem
- * 3,300 + applications available for z/OS
- * 3,000 + applications available for Linux on System z
 - 550 new Linux applications added in 2009
 - 80 applications added in 1H2010
- * 6,300 + applications available for System z



System z10

SHARE in Boston

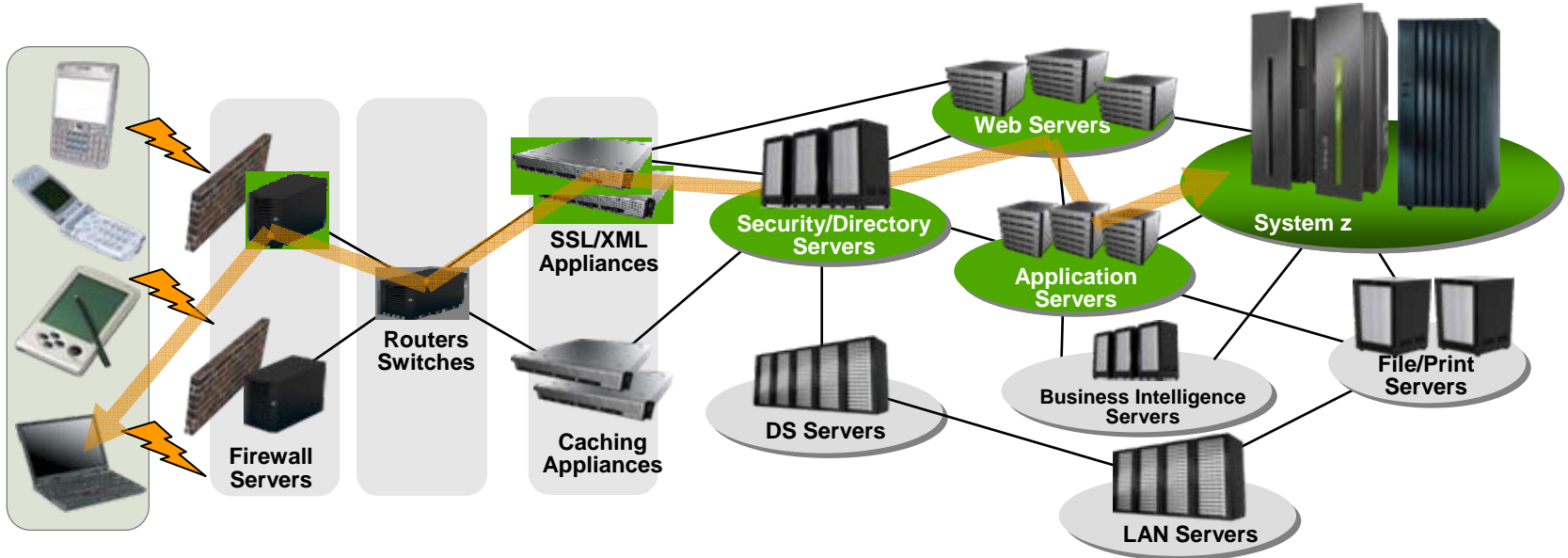
Information Technology Today: Limitations



SHARE

Insights • Results

Information Technology today is limited by the technology and architecture configurations available



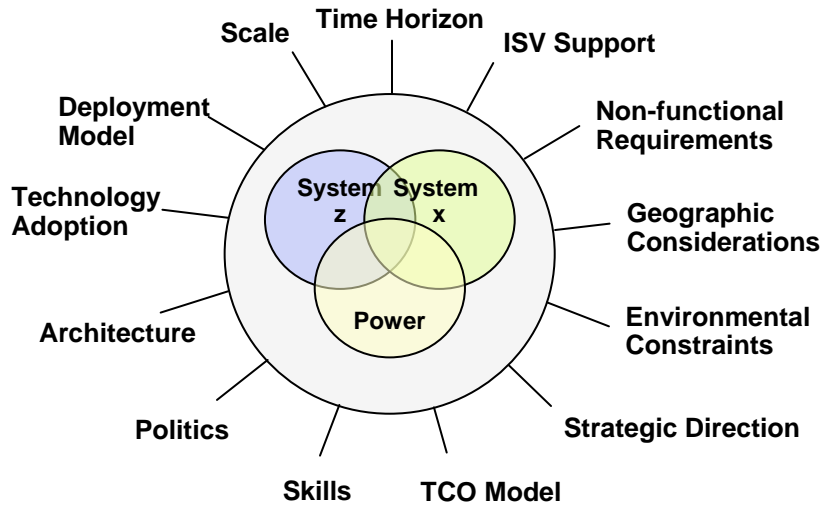
Complexity and Limitations of Today's Environment

- Many tiers/nodes of **independent resources** connected over corporate network
- System management information typically **not end-to-end view**
- Automation Policies **are limited** to tier/node boundaries
- **Redundancy is pervasive** for Operational staff, HW, Software and policies across architectures
- **Managing this complexity now consumes the majority of IT budgets**

Fit for Purpose Highlights - Platforms for Workloads

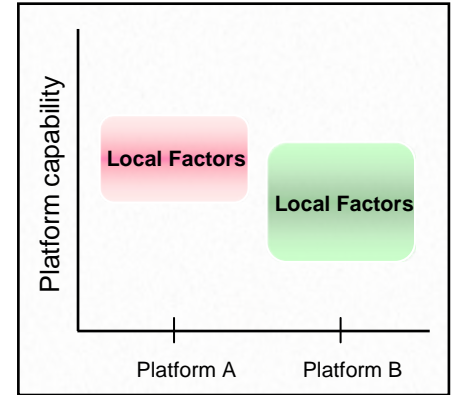


SHARE
Technology • Connections • Results



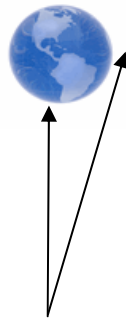
Local Factors Matter

- Skills
- Technology adoption
- Management
- Volume of servers
- Organizational



Infrastructure Size Matters

- Changes people dynamics
- Increases handoffs
- Affects testing, patching, etc



Apollo 13

Transaction Processing and Database

Analytics and High Performance

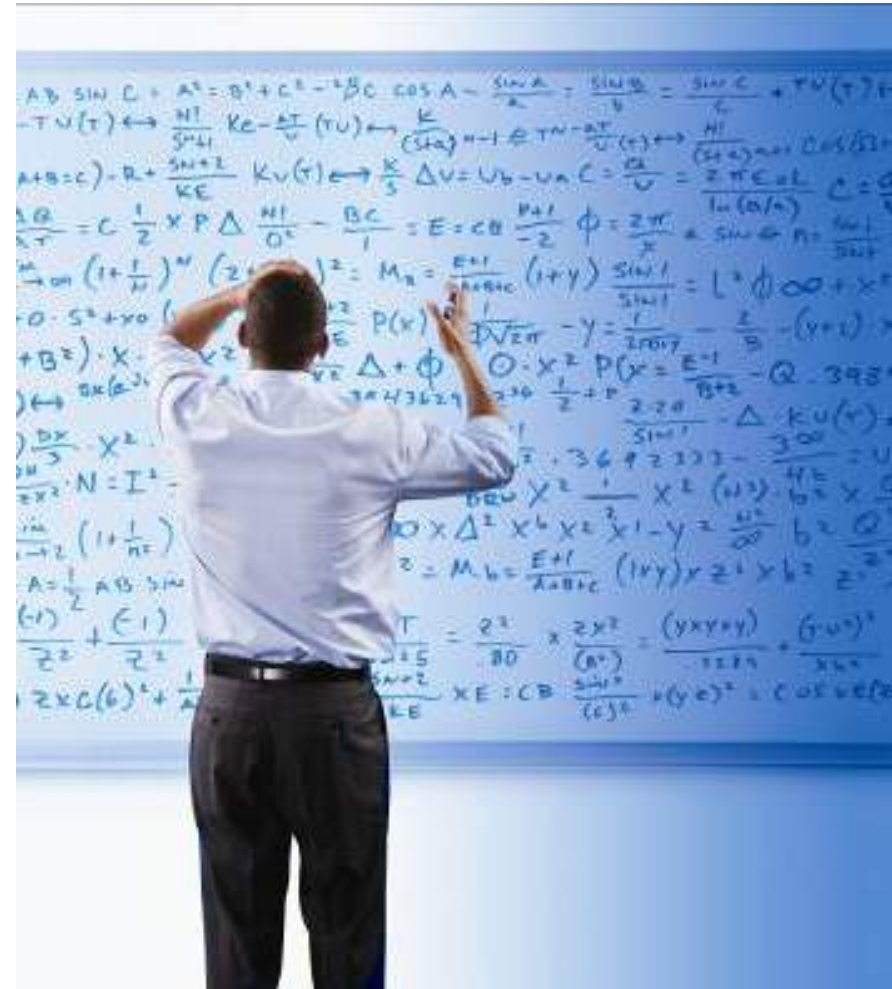
Business Applications

Web, Collaboration and Infrastructure

Workload Matters

Despite the allure of a “one size fits all” server approach ...

- Today’s enterprise computing environments are multi-platform for a reason. They’re optimized to run different workloads :
 - Database and Transaction processing.
 - Analytics.
 - Web-based interactions.
 - Enterprise applications such as ERP.
 - The myriad of x86 applications.
- While optimizing each of these workloads in its native environment is smart...
- Optimizing the way they work together in a smarter business infrastructure is smarter.



Independent analysis shows that a greater than average use of mainframe technologies delivers better business results than a primarily distributed environment



Cost of IT:

44% lower cost per credit card transaction

44% lower cost per ATM transaction

25% lower cost per mega watt hour produced

24% lower cost per hospital bed

20% lower cost per airline passenger

26% lower cost per new vehicle

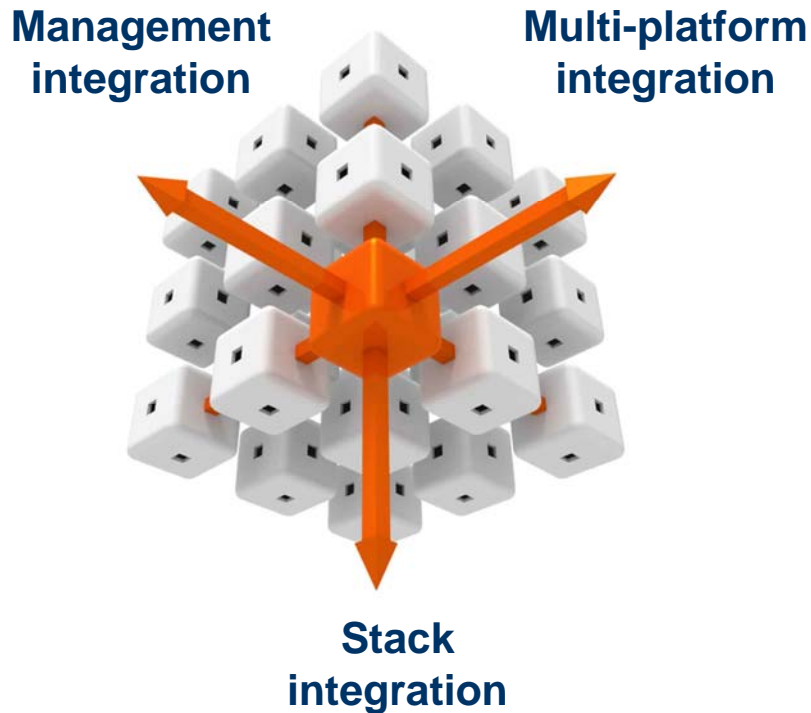
25% lower cost per retail store

23% lower cost per barrel of oil

*“...in the long run the marketplace **rewards those that make the optimum use of the right computing resources in the right way** as evidenced by business performance”*

Dr. Howard Rubin, CEO and Founder Rubin Worldwide

Announcing the IBM zEnterprise System: *A New Dimension in Computing*



- A “System of Systems”, integrating IBM’s leading technologies to dramatically improve productivity of today’s multi-architecture data centers and tomorrow’s private clouds.
- The world’s fastest and most scalable enterprise system with unrivalled reliability, security, and manageability.
- The industry’s most efficient platform for large scale data center simplification and consolidation.

The IBM zEnterprise System:

A system of systems that unifies IT for predictable service delivery



Unified management for a smarter system:
zEnterprise Unified Resource Manager

- Part of the IBM System Director family, provides platform, hardware and workload management
- Unifies management of resources, extending IBM System z® qualities of service across the infrastructure

The world's fastest server:
IBM zEnterprise™ 196

- Ideal for **large scale data and transaction serving and mission critical applications**
- Most efficient platform for **large-scale Linux consolidation**
- Capable of massive scale up, over **50 Billion Instructions per Second (BIPS)**



Scale out to trillion of instructions per second:
zEnterprise BladeCenter® Extension (zBX)

- Selected IBM POWER7™ blades and IBM System x® Blades* for tens of thousands of **AIX® and Linux applications**
- High **performance optimizers and appliances** to accelerate time to insight and reduce cost
- Dedicated high performance private network

The Heart of a zEnterprise 196 System



*The Ideal platform for deploying new **mission critical enterprise applications** in a modern cloud environment*

IBM

zEnterprise 196

5.2 GHz superscalar processor

Up to 96 Cores, 1 to 80 configurable for client use

Up to 3 TB RAIM memory

Over 100 new instructions

1.5MB L2 Cache per core, 24MB L3 Cache per processor chip

Cryptographic enhancements

Optional water cooling

Up to
40%

Improvement for traditional z/OS workloads

Up to
65%

Improvement in performance for new workloads through new compilers and zEnterprise Hardware

Up to
56%

Improvement in Linux Price/Performance

Industry Leading Performance and scale, and all in the same energy envelope as a System z10

Realize Operational Advantage



An integrated system replaces operational silos to redefine the meaning of “System” and deliver significant operational savings.

- Fewer servers
- Fewer disks
- Fewer network devices
- Fewer switches
- Fewer access points
- Fewer points of failure
- Fewer security exposures
- Fewer software licenses

Large Scale Consolidation with zEnterprise ...

Up to

90%

Reduction in
energy
consumption
and floor space

Up to

90%

Reduction in
Labor costs

Up to

90%

Reduction in SW
costs when
consolidating
distributed licenses

“A large retail organization expects to reduce SAP network hops by a factor of 12 to 1”

Service Levels to Match Your Business Needs

Increased flexibility for your multi-tier, multi-architecture strategy

TCO Focus

- ✓ Silo managed islands of computing
- ✓ Less dynamic than z virtualization
- ✓ Minimal resource sharing with z resources

Distributed Systems



LOWER

zEnterprise System

- ✓ Expanded ISV support for enterprise applications
- ✓ Targeted for applications that interact with mainframe data and transactions
- ✓ Provisioned and managed by System z

Select IBM Blades in zBX



- ✓ Extreme consolidation of servers and networking
- ✓ Superior levels of virtual server provisioning, monitoring and workload management
- ✓ Industry-best virtual I/O bandwidth and reliability
- ✓ Fewer components and reduced complexity
- ✓ System z qualities of dynamic resource management and capacity-on-demand
- ✓ Seamless integration with z/OS backup and disaster recovery solutions

Linux on z/VM®



- ✓ Extreme scalability and performance for transaction processing and data serving
- ✓ High availability and cross-system scalability with Parallel Sysplex® and GDPS
- ✓ Leading policy-based capacity provisioning and workload management
- ✓ Pervasive, high-performance security support

z/OS



HIGHER

SCALABILITY, SECURITY, DYNAMIC WORKLOAD MANAGEMENT

Workloads for zEnterprise

They are workloads that.....

- ...rely on data serving in System z
e.g. DB2 or ORACLE
- ...need to leverage classic application strengths of System z:
 - High availability
 - High i/o bandwidth capabilities
 - Superior disaster recovery
 - Industry leading security
 - Consolidation effects
- ...also have application components on Power or Intel servers but require a higher level of integration capability and efficiency



....and / or.....

- ...currently reside in low utilization / development environments
- ...can be made more efficient through consolidation of servers, storage, applications and/or databases
- ...integrate using SOA and Middleware
- can be optimized by using the newest virtualization technology

....but also may.....

- ...reside in complex IT environments involving multiple server architectures, ISVs or operating systems
- ...require flexible development and test infrastructure
- ...require simplified, integrated policy and management
- ...need shorter end to end path length between co-existing apps
- ...realize improved performance through reductions in network traffic

zEnterprise Workload Profiling Assessment Tool – Output Charts



- Client 1 profiled a classic multi-tier SOA workload
 - Their main pain points centered on rolling out new capacity on a state-by-state basis
 - Allocating resources for each new rollout and performing acceptance testing was identified as time consuming, error prone and delivering inconsistent results (e.g., in security)
 - They had no interest in establishing new business or IT capabilities
 - **This is a strong match**



- Client 2 profiled a two-tier critical business process based on SAP
 - Their main pain points centered on maintaining availability in light of unpredictable usage patterns and outages
 - Adjusting resources manually did not always allow for SLA attainment, failover and business continuity for the full workload was not possible, and business controls (e.g., for security and compliance management) were inconsistently implemented
 - **This is an exceptional match**

Top Take-Aways ...



1. Find ISV and IBM products available on System z
 - *Global Solutions Directory*
 - *IBM Products on z/OS*
 - *IBM Products on Linux Matrix*
2. IBM ISV & Partner assistance for making application available on System z
 - *IBM Linux Integration Center*
 - *IBM Destination z*
 - *IBM Innovation Centers*
 - *IBM Chiphopper Program*
3. IBM Fit for Purpose Systems
 - *IBM zEnterprise System “System of Systems” integrating IBM’s leading technologies supporting diverse enterprise workloads & applications*

Visit the [IBM Booth at the Technology Exchange](#) Info for more detailed information and demonstrations of ISV applications & IBM’s zEnterprise System products