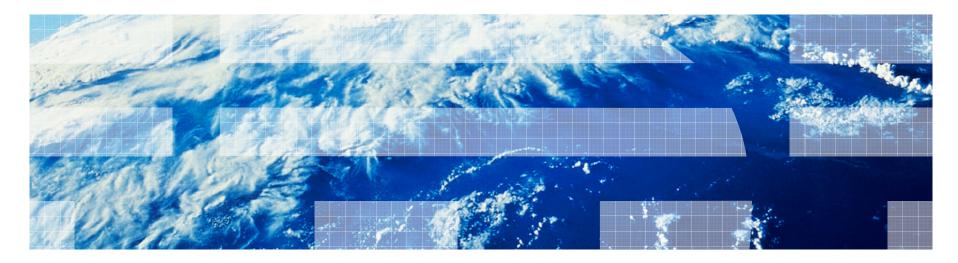
Ray Sun (rjsun@us.ibm.com) – Tivoli Product Management and Strategy 15 March 2010



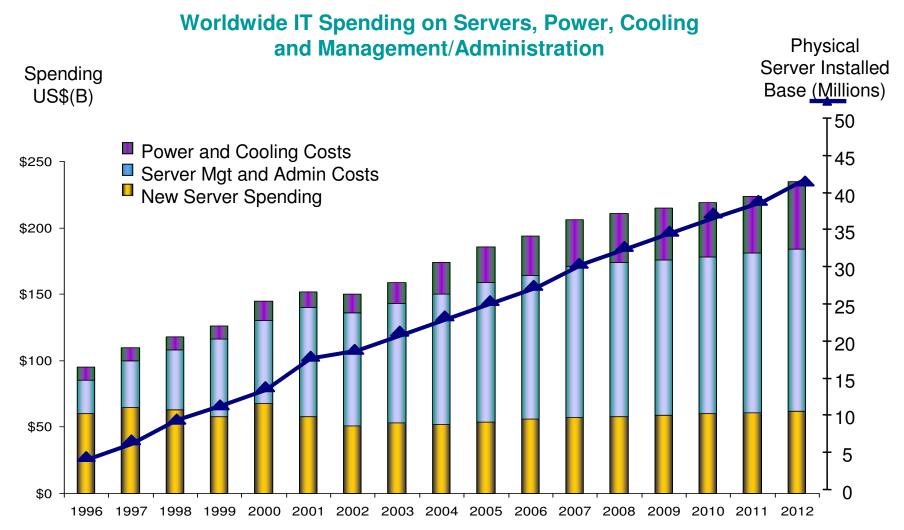
# Managing Linux on System z



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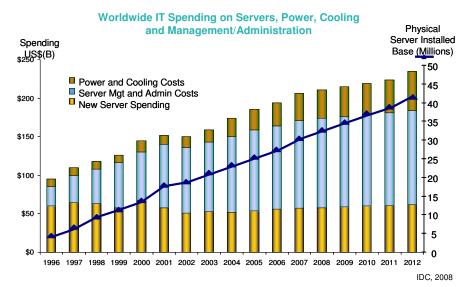
#### Annual Operating Costs Are Out Of Control





#### Businesses face challenges today

- Lost business opportunity because IT too slow to react. Lack of agility
- Long deployment timelines for new systems (weeks/months+)
- Many people involved in the process, high cost & complexity
- Many steps are manual and prone to error
- Huge up front investment for new infrastructure
- Server sprawl
- Low utilization
- Costly compliance, auditing, and security patching





#### What Is The Solution?

- Reinvent the data center to build a more dynamic infrastructure
  - Take Cost Out
    - Virtualization and consolidation
  - Reduce Energy Consumption
    - Green Data Center
  - Reduce Labor Costs
    - Simplified Administration



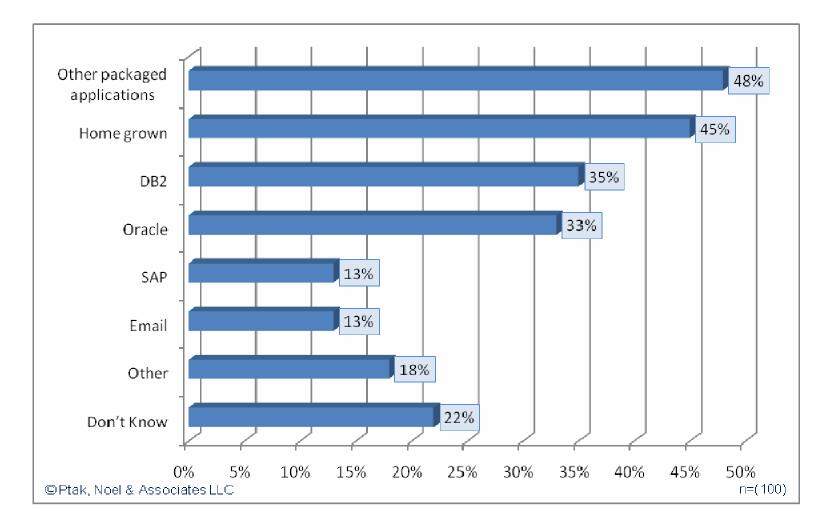
## Do more work with your System z

<ul> <li>Near-linear scalability</li> </ul>	up to 900,000+ concurrent users; TBs of data
<ul> <li>"Mean Time Between Failure"</li> </ul>	measured in decades versus months
<ul> <li>¼ network equipment costs</li> </ul>	virtual and physical connectivity
<ul> <li>1/25th floor space</li> </ul>	400 sq. ft. versus 10,000 sq. ft
<ul> <li>1/20 energy requirement</li> </ul>	\$32/day versus \$600/day
<ul> <li>1/5 the administration</li> </ul>	< 5 people versus > 25 people
<ul> <li>Highest average resource utilization</li> </ul>	Up to 100% versus < 15%
<ul> <li>Capacity Management &amp; upgrades</li> </ul>	On demand; in hours, not weeks/months
<ul> <li>Security intrusion points</li> </ul>	Reduced by z architecture and # of access pts.
<ul> <li>Higher concurrent workload</li> </ul>	hundreds of applications versus few





#### Workloads Moving to Linux on System z



\* Source - Ptak, Noel 2009 Mainframe Linux Workloads Survey



#### BI Cost Savings on System z

#### Your IT Cost may vary:

Up to 80% Saving in IT Cost

Up to 96% Less Hardware 760 x86 Processor Cores vs 26 IFLs

Potential for dramatic reductions in software expense for processor based licenses

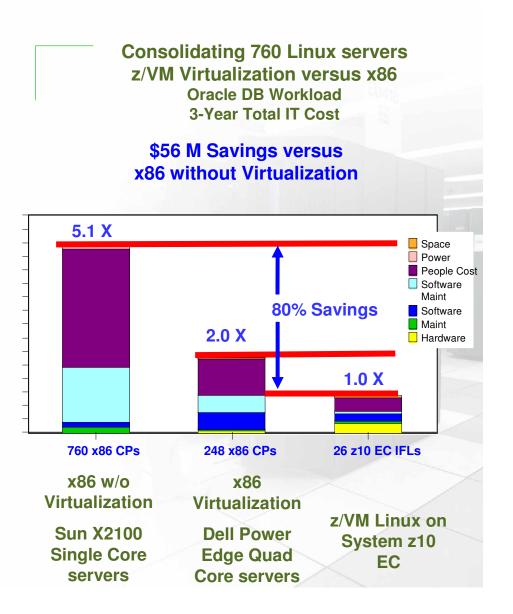
Potential reductions in power and cooling Up to 93% Savings in KWatts and Energy Costs in this scenario

Up to 46% Less Space

Up to 89% People savings

Increased processor utilization

Industry leading Security



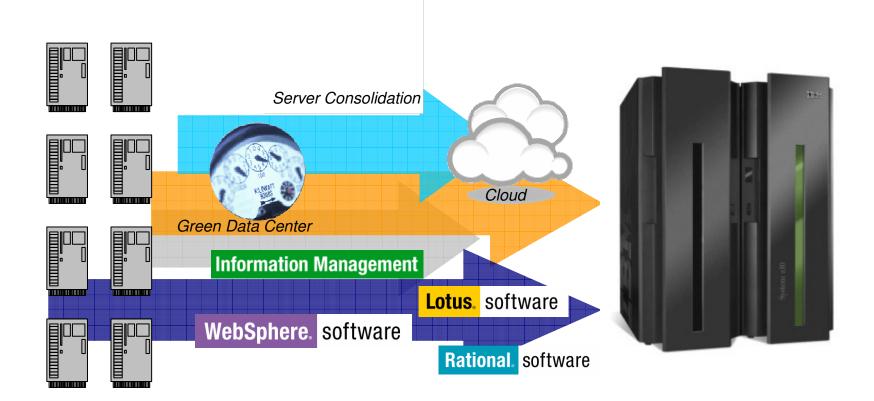
Energize your IT savings with z10 EC.

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### Moving Workload to System z

Why do clients move workloads to System z?



But, how do you manage this new environment? **Tivoli.** software



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#### IBM Service Management Enabling quality service delivery and business innovation







Visibility: See your Business **Control**: Manage your Business Automation: Improve your Business

Respond faster and make better decisions

Manage risk and compliance

Lower costs and build agility



#### Simplify Service Management Increase Return on Investment with Differentiating Value from IBM

- Align IT objectives with business objectives
  - Visualize service delivery and incident impact on line of business and key performance indicators
  - Automatically map application and IT infrastructure to line of business
- Enforce ITIL management processes
  - ITIL-based process automation solutions with common workflow engine and data platform
  - Standardize management processes and institutionalize best practices
- Eliminate multiplicity of service management solutions
  - Integrated, end-to-end process automation solutions that span the mainframe and distributed systems
  - Leverage best practice and standardize management processes enterprise-wide
- Break down silos
  - Integrate enterprise-wide processes, and reduce the frequency and impact of failed customer interactions

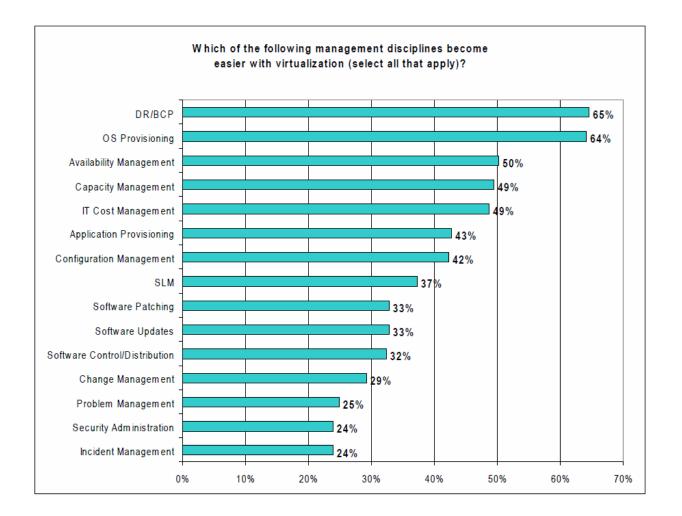


## Service Management

IBM Service Management							
Best Practices, Methodologies, and Services							
Service Management Platform							
Service Delivery & Process Automation	Service Availability & Performance Management	Storage Management	Security, Risk & Compliance	Datacenter Transformation	Asset Management	Network & Service Assurance	
Visibility Control Automation		ion					



### Managing Virtualization



Source – Enterprise Management Associates



#### **Panelists**

Ray Sun IBM Software Group – Tivoli Software Product Management and Strategy – Linux on System z

Bill Reeder IBM Systems & Technology Group Linux and Virtualization Architect

Reed Mullen IBM Systems & Technology Group System z IT Optimization and Consolidation

Hans Schoone IBM Software Group – Tivoli Software Development – Security

Mike Goodman IBM Software Group – Tivoli Software Product Management and Strategy – OMEGAMON

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## **Sessions This Week**

5140	IBM Tivoli Monitoring for Energy Management	Mon	4:30 PM	Room 617
9219	Cloud Computing with IBM System z	Tue	1:30 PM	Room 611
9152	Tips on Monitoring and Managing Your z/VM and Linux on System z	Wed	9:30 AM	Room 608
5142	Tivoli Integrating System z into End-to-End ITIL Processes	Wed	11:00 AM	Room 616
0912	Leveraging the Mainframe as Your Cost-Effective Enterprise Security Hub	Wed	11:00 AM	Room 306
9307	System z and High Performance Computing – an Innovative High Performance Consolidation and Compute Opportunity	Thu	11:00 AM	Room 210
9207	Systems Management for Linux in a z/VM Environment – Panel Discussion	Thu	4:30 PM	Room 608