Building a Better Infrastructure With IBM Middleware on System p

Introduction

Introducing Service Oriented Finance

We are a successful business that has grown rapidly.

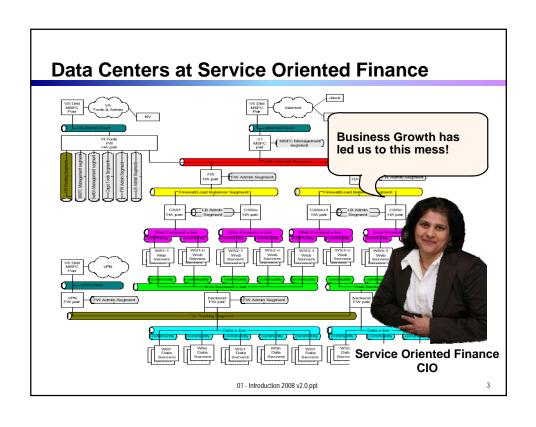
However, IT is now becoming a roadblock to our growth.

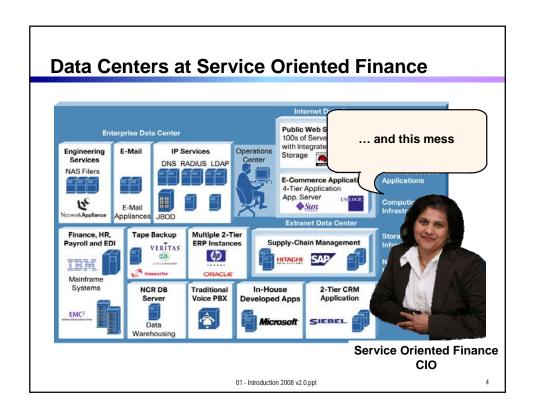


Service Oriented Finance CEO

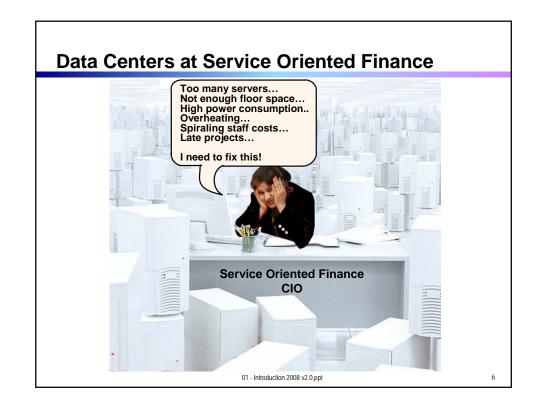
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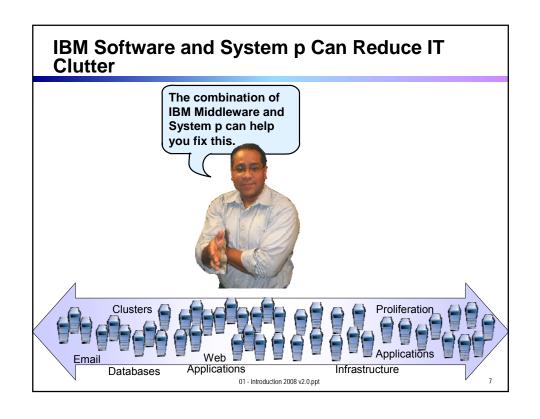
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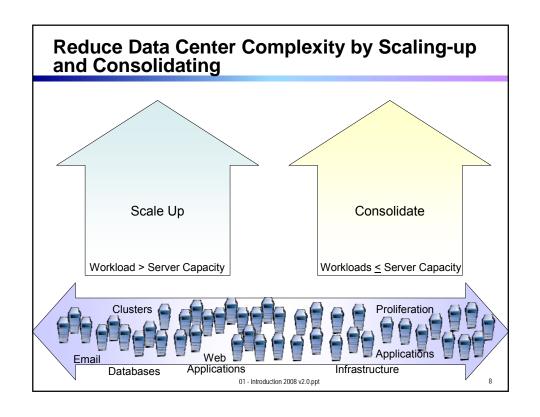




Internal IBM Consolidation Project – Distributed Cost Per Server **Annual Operations Cost Per Server** (Averaged over 3917 Distributed Servers) \$34,447! Power \$731 \$987 Floor Space These annual operating \$777 Annual Server Maintenance costs are consuming my Annual connectivity Maintenance \$213 budget Annual Disk Maintenance \$203 There's nothing left for Annual Software support \$10,153 new projects Annual Enterprise Network \$1,024 Annual Sysadmin \$20,359 **Total Annual Costs** \$34,447 The largest cost component was labor for system administration - 7.8 servers per headcount @ \$159,800/yr/headcount 01 - Introduction 2008 v2.0.ppt







JEBSEN & JESSEN Benefits From Scale-Up and Consolidation

Challenges

- Migrate business critical SAP environment to a new database
- Consolidate physical server infrastructure
- Drive down TCO

Solution

- Replace seven HP-UX servers with three IBM System p servers running IBM
- Implement SAP ERP on IBM DB2

Jebsen & Jessen SEA doubles performance and cuts 20 percent from TCO with DB2 on System p5

- "We felt that the IBM hardware was technically superior.
- Roy Lim, Operations Manager Jebsen & Jessen SEA
- "The migration of our SAP ERP environment to IBM DB2 on IBM System p5 servers has delivered improved performance and availability.
- Gopal Varutharaju, Director -Information Technology Jebsen & Jessen SEA

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IBM Middleware Runs on Many Platforms

IBM Software Efficiencies

Software designed to save the business money Superior software performance benchmarks Better administrator productivity

IBM Middleware

IBM Middleware

IBM Middleware

IBM Middleware





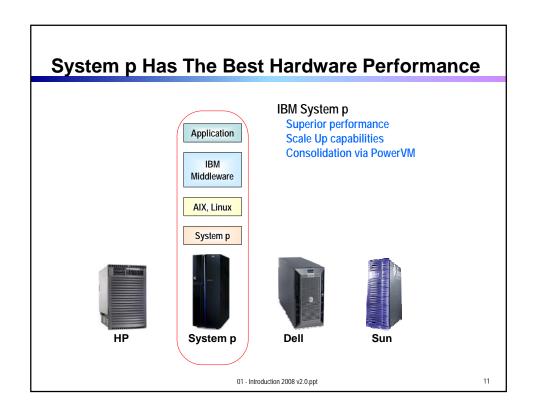
System p

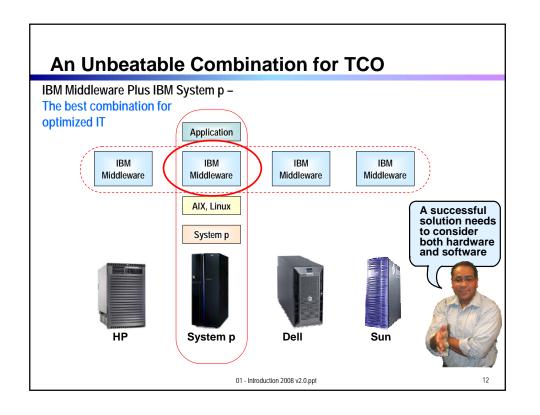


Dell



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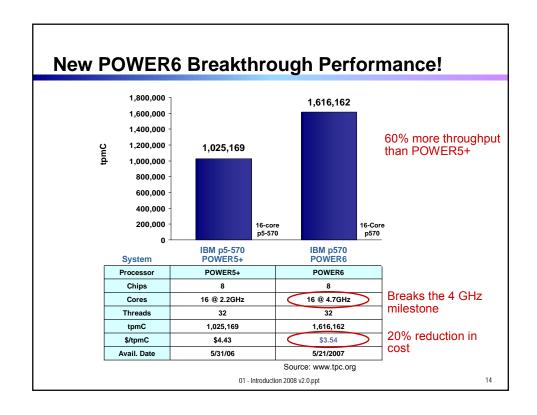




Why is IBM Middleware + System p the Best Solution to Simplify Your IT Environment?

- Fast powerful System p servers that can handle several workloads
- Software designed to lower cost and improve flexibility
 - Designed with business costs in mind
 - Integrated software environment
 - Software designed to take advantage of a fast server
 - DB2, Lotus, WebSphere, Tivoli, Rational
 - Software designed to easily consolidate workloads
- Software management to simplify and contain labor costs
- Net result great price/performance and reduced complexity

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System p Designed to Easily Scale-Up or To Consolidate

Scale-Up Features

- Up to 64 core SMP server
- Simultaneous multi-threading
- Larger page sizes
- Hardware decimal floating point
- Dynamic reconfiguration to deliver capacity on-demand

Consolidation Features

- Hardware virtualization with hypervisor support
- Dynamic resource allocation
- Up to 10 logical partitions per core
- Storage protection keys
- Virtual I/O
- Linux support
- ▶ PowerVM Lx86
- Live partition mobility

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IBM Middleware Is Designed to Save the Business Money

WebSphere

Extend the value of applications and business processes with SOA

Build Business Capability Faster

Information Management

Integrate data and enterprise content to leverage information on demand.

Better Business Decisions

Lotus.

Enables businesses to communicate, collaborate and increase productivity

Employees Respond to Business Challenges Effectively

Rational.

Govern software and systems delivery

Development Efficiency and Project Success

Tivoli.

Manage infrastructure, operations and IT processes, to more effectively deliver services aligned to business goals

Continuous Business Operation

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IBM Provides a Simplified, Integrated and Open **Middleware Stack** ORACLE + BEA Consistent Programming Model on an integrated stack Confusing Product Choices Two programming models Years of migration confusion Collaboration Collaboration WebCenter Plumtree or Oracle Portal Oracle Portal Portal Control Logic WebLogic? Content **Enterprise Service** Aqualogic Service Oracle Integration Bus Bus Interconnect **Human Task Services** WebSphere Process Which one? WLI, Oracle Workflow in **BPEL Process** ALSB or Fuego Server **Application Suite** Manager **EBSuite Adapters** WebSphere Third Party Adapters Third Party Adapters Adapters **Technology Adapters** J2EE J2EE J2EE PL/SQL WebSphere WebLogic Application Application Oracle Application Server Server Server 01 - Introduction 2008 v2.0.ppt 17

IBM Middleware – Designed to Work Best on System p

DB2

- Optimizations to exploit large page sizes, decimal floating point, Simultaneous Multi-threading, storage protection keys
- Recovery integration, first failure data capture

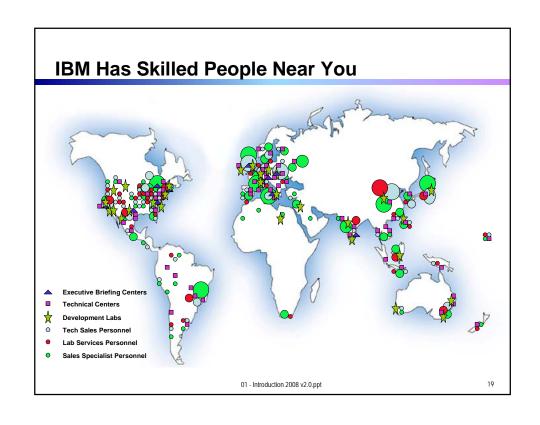
Lotus

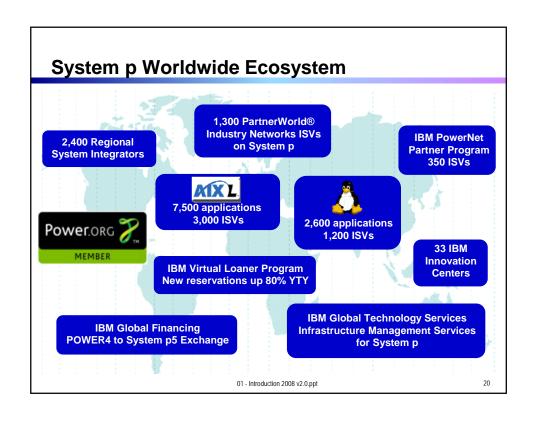
- Integrated collaboration environment that can support more than 15,000 users on a single System p server
- ▶ IBM's internal mail system is deployed with Domino on System p

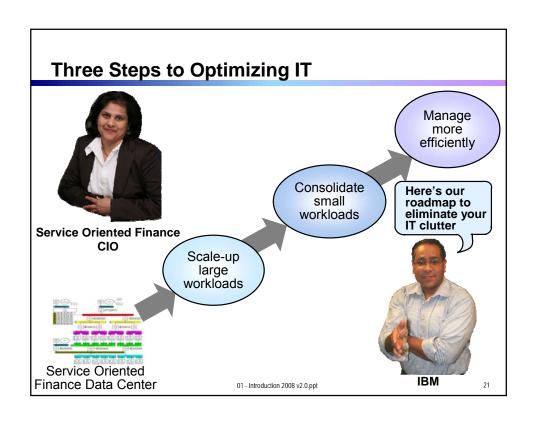
WebSphere

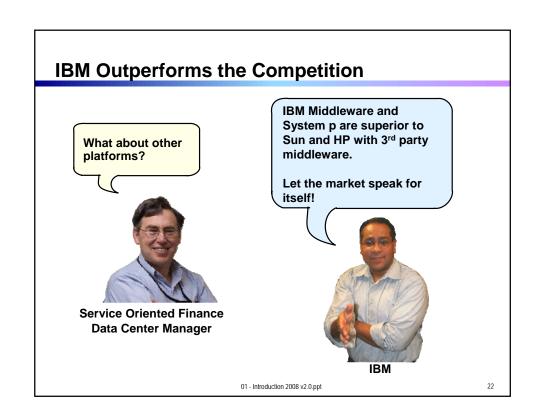
- Takes advantage of System p 64 bit architecture and large memory to provide enhanced performance by caching, just-in-time compilation etc.
- WebSphere provides flexible deployment options that can take advantage of System p virtualization and partitioning

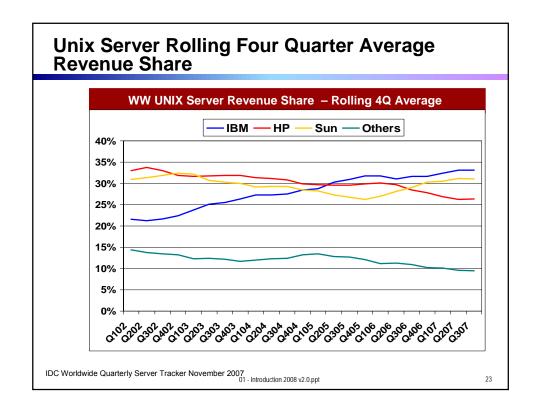
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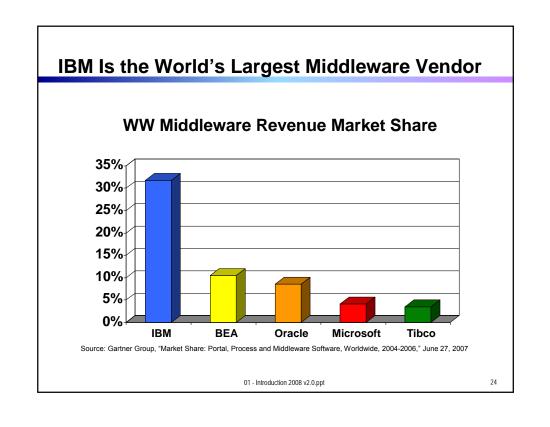


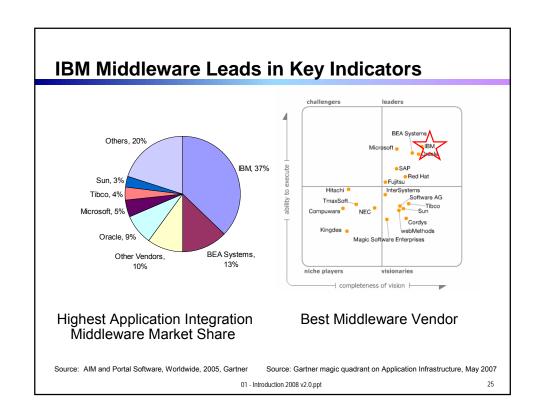


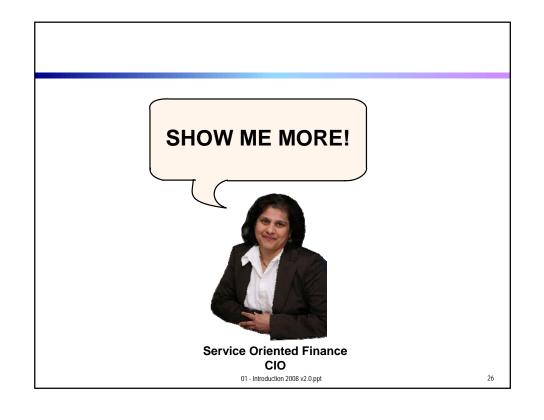












Agenda

- Introduction
- POWER Hardware Improves Utilization and Reduces Costs
- Break
- Reduce Database Complexity and Improve Performance with DB2
- Simplify Collaboration Services with Lotus Domino
- Lunch
- Consolidation Through Virtualization Saves Space, Energy and Costs
- Simplify Sprawling Web Tiers To Scalable WebSphere Servers
- Break
- Manage Datacenter Services With Best Practices
- IT Accounting in a Virtualized Environment
- IBM Middleware on System p An Unbeatable Combination for TCO

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