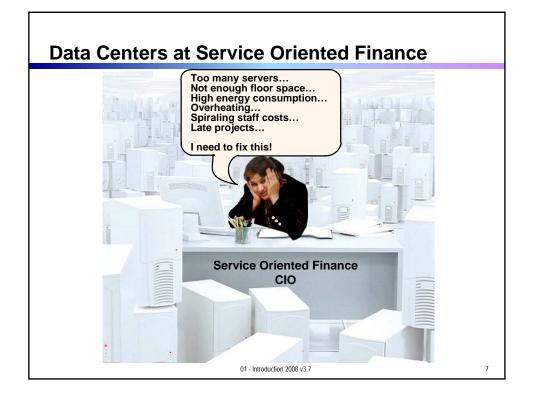


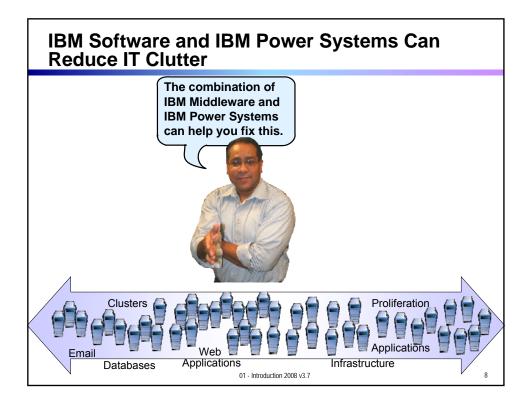
Internal IBM Consolidation Project – Distributed Cost Per Server

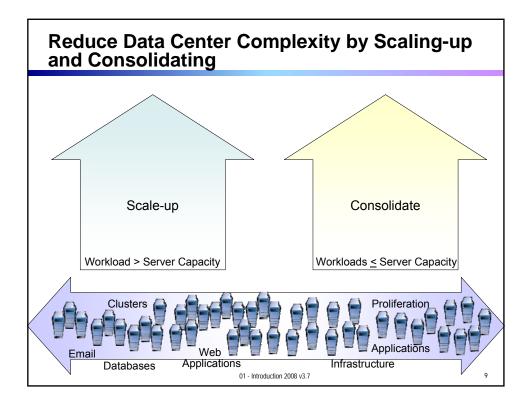
Annual Operations Cost Per Server (Averaged over 3917 Distributed Servers)

Power	\$731	\$34,447!
Floor Space	\$987	These annual operating
Annual Server Maintenance	\$777	costs are consuming my
Annual Connectivity Maintenance	\$213	budget.
Annual Disk Maintenance	\$203	
Annual Software Support	\$10,153	There is nothing left for
Annual Enterprise Network	\$1,024	new projects!
Annual System Administration	\$20,359	
Total Annual Costs	per	
neadcount @ \$159,800/yr/headcour	н.	E BANK

Rising Server Management Costs Worldwide IT Spending on Servers, Power and Physical (US\$B) lions) Cooling, and Management/Administration 50 \$300 45 Power and cooling costs \$250 40 Server management and administration costs 35 \$200 New server spending 30 \$150 25 \$100 20 15 \$50 10 \$0 5 0 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 1996 1997 Source: The Data Center Evolution: Technologies, Designs, People and Green, IDC, March 2008. Total cost of ownership (TCO) for servers continues to rise significantly, even as total server spending remains nearly flat - Management costs are the reason, driven by the increasing number of systems 6



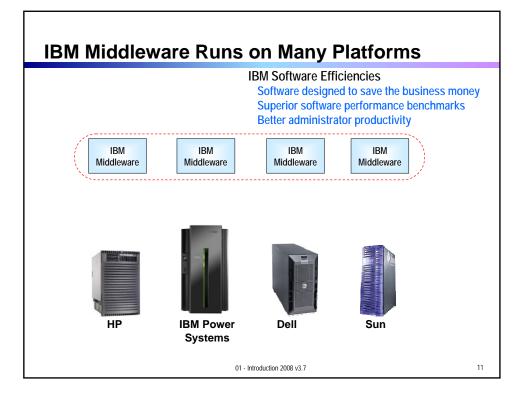


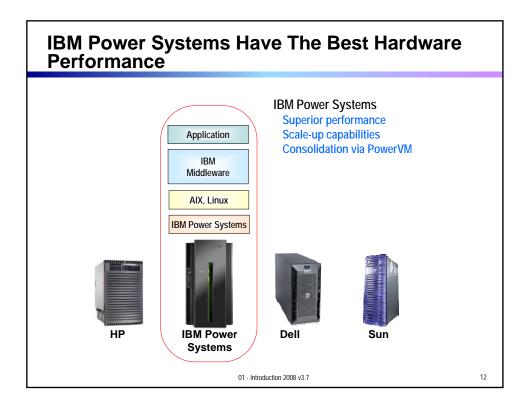


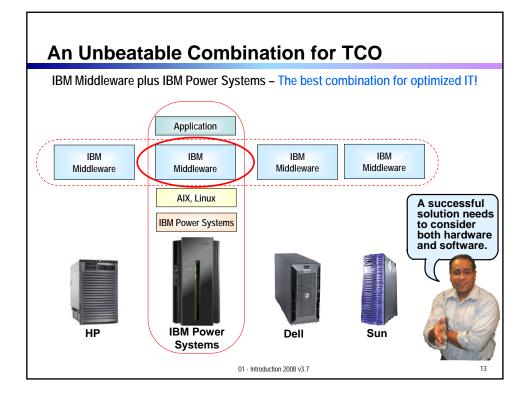
Jebsen & Jessen Benefits From Scale-Up and Consolidation Jebsen & Jessen SEA doubles Challenges performance and cuts 20 percent Migrate business critical SAP from TCO with DB2 on IBM environment to a new database **Power Systems.** Consolidate physical server infrastructure "We felt that the IBM hardware was Drive down TCO technically superior." - Roy Lim, Operations Manager – Jebsen & Jessen SEA Solution "The migration of our SAP ERP environment to IBM DB2 on IBM System p5 Replaced seven HP-UX servers with three IBM Power Systems running IBM servers has delivered improved performance and availability." AIX - Gopal Varutharaju, Director – Information Technology Jebsen & Implemented SAP ERP on IBM DB2 Jessen SEA

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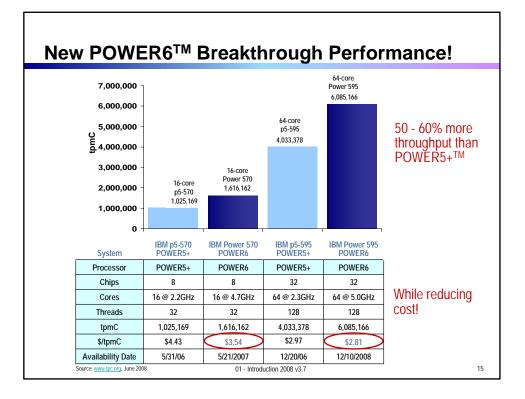
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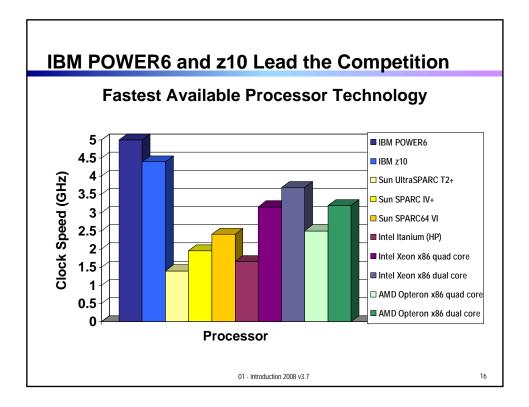


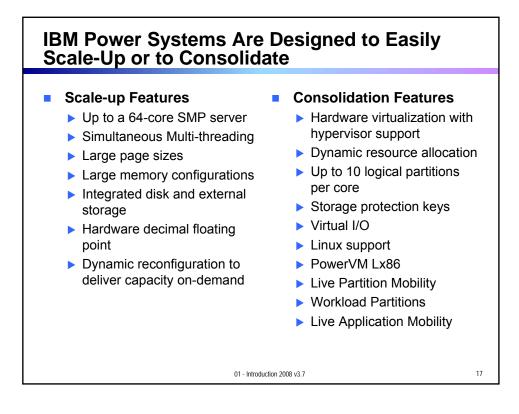


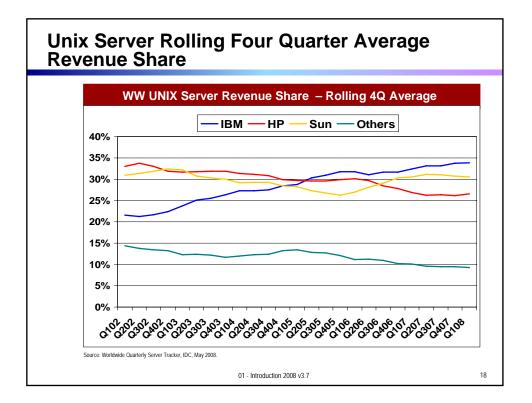


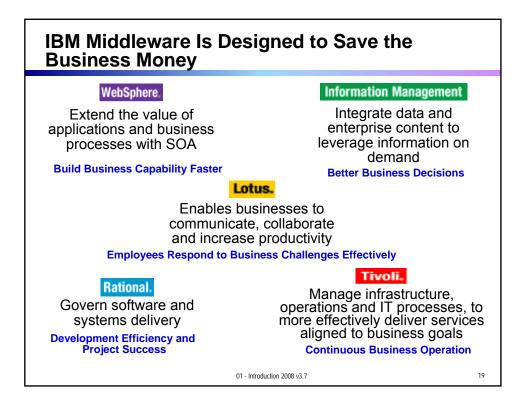
IBM Middleware – Designed to Work Best on IBM **Power Systems** DB2 Optimizations to exploit large page sizes, decimal floating point, Simultaneous Multi-threading, storage protection keys Recovery integration, first failure data capture Lotus Integrated collaboration environment that can support more than 15,000 users on a single IBM Power Systems server The internal mail system at IBM is deployed with Domino on IBM Power Systems WebSphere Takes advantage of IBM Power Systems 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 IBM Power Systems virtualization and partitioning 14 01 - Introduction 2008 v3.7

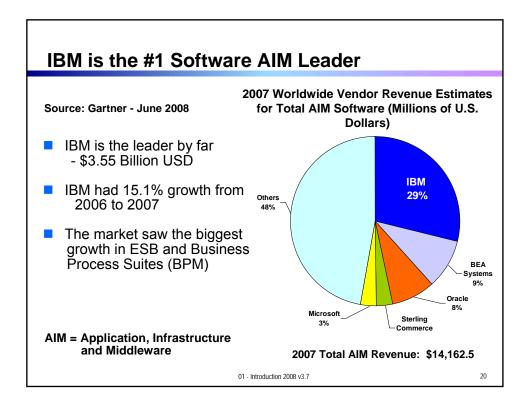


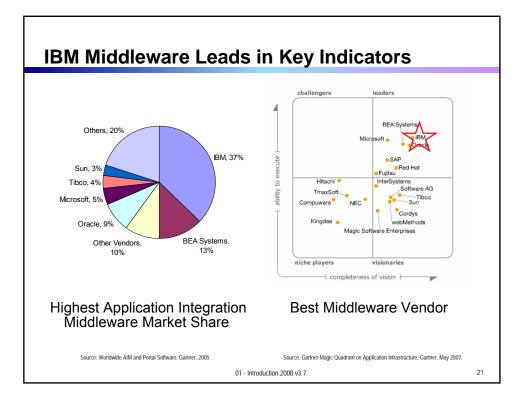


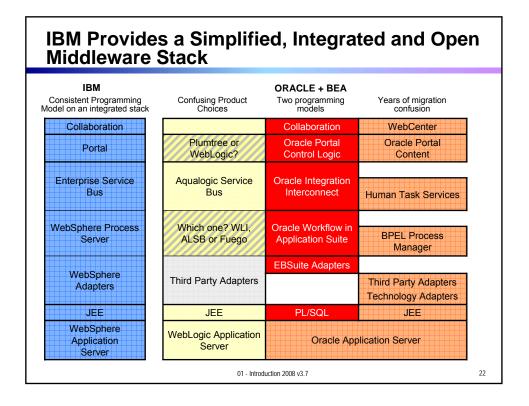


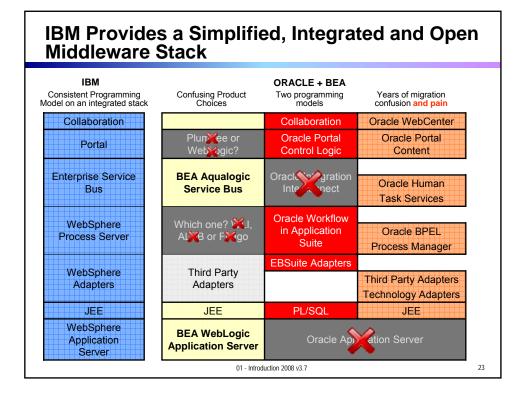


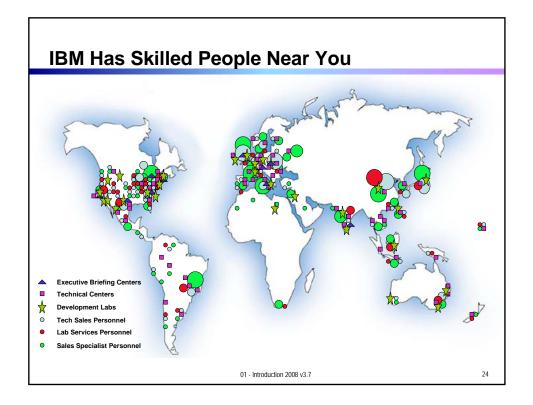


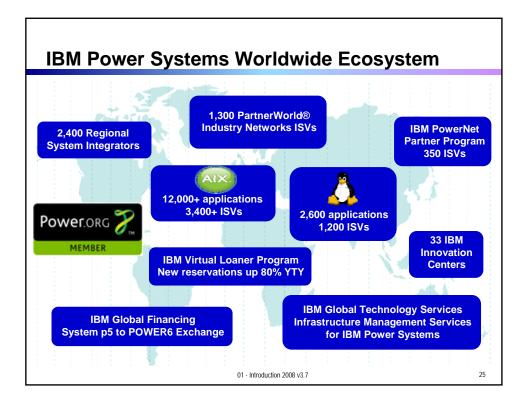


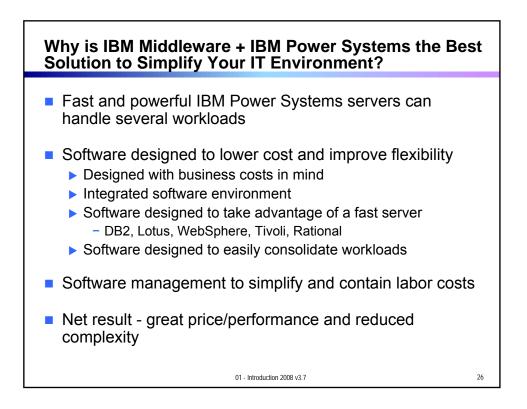


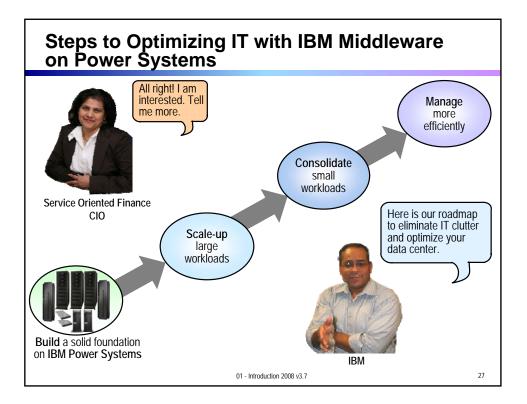












Agenda	
 Introduction POWER Hardware Improves Utilization and Reduces Costs Break Reduce Database Complexity and Improve Performance with DB2 Simplify Collaboration Services with Lotus Domino Lunch Consolidation Through Virtualization Saves Space, Energy and Costs Simplify Sprawling Web Tiers To Scalable WebSphere Servers Break Manage Datacenter Services With Best Practices IT Accounting in a Virtualized Environment IBM Middleware on Power Systems - An Unbeatable Combination for TCA 	0
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