

I Had a Dream Last Night...

- I dreamed that IBM introduced a new computing platform for the 21st century that would help me beat my competitors
 - ▶ Cuts the cost of computing in half
 - ▶ Green machine that uses less electricity
 - Requires half the operational labor to keep it running
 - ▶ Can run global business transactions while never going down
 - ▶ And it would be used at the core of the world's largest business
- The name of this revolutionary platform was.... System z

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We are a traditional bank with branch offices throughout the country.

Banking competitors and non-bank specialists are taking away our customers.



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Service Oriented Finance

Our customers demand greater choice, and personal security and control in their banking relationships.

We need a next generation banking system!



Marketing

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Service Oriented Finance

Our current IT infrastructure will be hard to change to meet these new business needs! It will cost too much as well.



Service Oriented Finance CIO

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Requirements Driving Next Generation Solutions

- Specialization
 - Recognize different customer segment and their different needs
 - Extend access to different customer segments
- Regulation
 - Privacy and security
 - Risk management and audit
- Technology
 - Global connectivity
 - ▶ Service oriented architecture
 - ► XML
 - Virtualization

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Examples of Specialization Requirements

- Differentiate product offerings for different customer sets
- Customer insight to determine optimal marketing segments
- Extend sales reach via business partners
- Extend access to online customers 24x7
- Launch specialized products faster

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Wachovia Bank - Extend Access Channels for Internet, Call Centers, and Branches

<u>Business Need:</u> Enhance ability to deliver new customer function across all applicable channels quickly, consistently and at a lower cost.

Technology State:

- Majority of customer, account and product data on the mainframe
- Business logic for the same service was redundantly contained in the application supporting each channel

Branch Corebanking CICS & IMS Applications Internet DB2 Database 30,000 MIPS

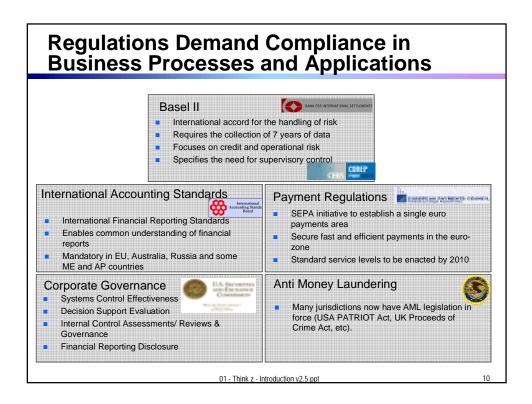
Solution

- ► Create Integration Hub with WAS on System z
- ▶ Aggregate 7,000 fine grained CICS and IMS transactions into 30 WAS applications
 - Improved efficiency managed MIPS growth to 15%
 - zAAP processors

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15% Annual Growth



Technology Requirements for Next Generation Solutions

- Service Oriented Architecture (SOA) is key to providing flexibility and rapid innovation
- Availability and reliability to conduct online business continuously
- Performance and scalability to allow quick and cost effective response to growth
- Security and auditability for regulatory compliance
- Virtualization to reduce IT center costs

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Rapid Innovation is a Competitive Advantage

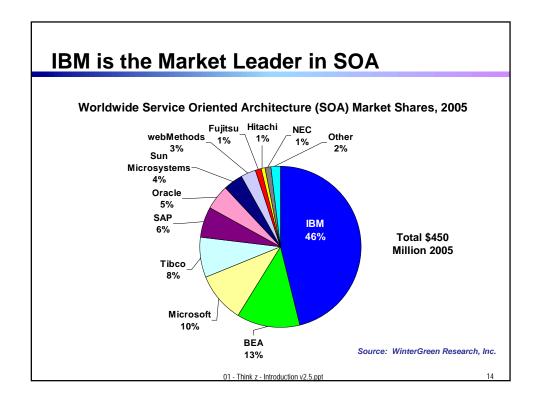
- In March 1991, MCI introduced "Friends and Family," a new approach to long-distance telephone service.
 - Under this plan, subscribers could set up discounted "calling circles" as long as both parties were MCI subscribers.
- "Friends and Family" immediately changed the dynamic of the market, and took many customers from AT&T.
- AT&T's billing system was unable to deliver new products in a short time frame.
- Four years later, AT&T responded with a new billing system to compete with MCI's "Friends and Family" (which had already won 5% of market share)

Flexible business systems are needed to remain competitive!

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SOA Delivers Business Values ... Today A Recent Study from IBM SOA Engagements IBM studied a subset of engagements and found: 97% justified SOA 100% 97% 100% gained projects based improved flexibility on cost savings & impact to profitability 71% reduced risk 51% experienced increased revenue Source: IBM Institute for Business Value "The Business Value of Service-Oriented Architecture" 2006 01 - Think z - Introduction v2.5.ppt



Shifting Trends Favor the Mainframe Again

- Continuous availability is even more important in the web world
- Security and compliance are top of mind
- Server sprawl has driven up the cost of labor
- TCO pressure is driving customers to consolidate workloads on virtualized platforms
- Network economics favor consolidation once again
- Cost of power is increasing
- Growing use of Linux
- IBM has delivered dramatic mainframe price reductions

It's time to take a fresh look at the mainframe!

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The Mainframe – At the Center of Generation Solutions

- Most core business systems already run on the mainframe at the heart of the business
 - Represent huge investments
 - Key to ongoing business operations
- The modern mainframe is designed to be extensible so it can play a central role in NextGen solutions
- The mainframe delivers superior qualities of continuous operations, rapid scale up, and security
- The mainframe achieves the lowest TCO for next generation solutions

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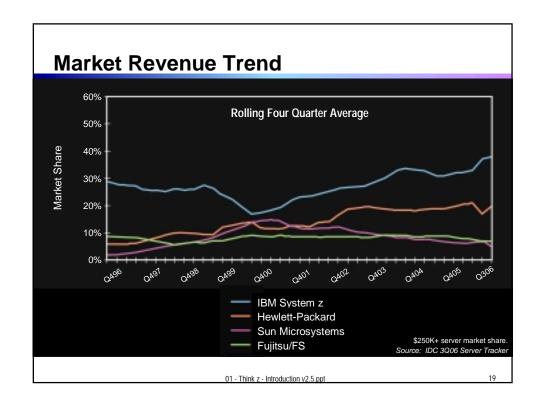
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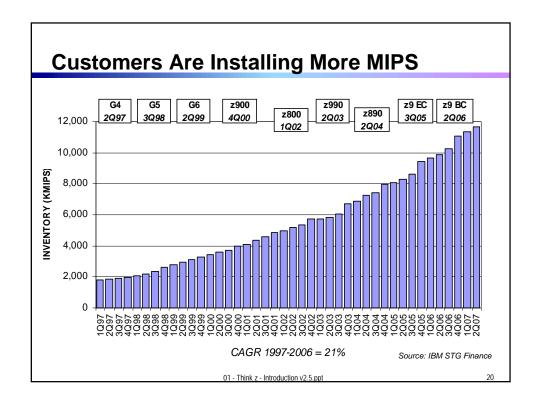
Top Fortune 500 Banks Rely on Extending System z to Run Core Business

- Top 56 banks in the Fortune 500 list are IBM System z customers
- Impressive numbers from these 56 banks in 2006
 - Average revenue growth 16% (compound annual rate)
 - Average mainframe capacity 35,000 MIPS and growing
 - Each MIP generates an average of \$1.2M revenue and \$140,000 profit
 - ➤ These banks drive down IT cost to meet business requirements by extending their core business applications
- What about bank #57?
 - Mainly Unix and Windows servers, facing significant problems in managing these servers
 - Customers can only do transactions at their home bank

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IBM System z Growth Milestones Six consecutive quarters of share growth Top 50+ Banks in the World Record High for Market Share: 37.1% Record Year for Specialty Engines Over 11 Million MIPS Installed 30% Total revenue driven through partners First Online Game Client: Hoplon Infotainment > 30% growth in Linux applications and tools Source: IBM Finance, 1007 & CSI Finance '06





IBM Launches Mainframe Software Center in Saõ Paulo

- First Mainframe Software Center in Latin America
- Help customers and ISV's
- Build, test, and run applications on an IBM Mainframe
- Software training and business guidance
- http://www.tmcnet.com/news/2007/08/13/2858742.htm

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The Value of Distributed Computing

- Rapid application development and deployment
- Separation from core business processes
 - Flexibility without impacting core business stability
- Focused and controlled investment for special purpose applications
 - ▶ Compute intensive, deep analytics
- Designed for high performance at low cost in a single application environment

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Mainframe or Distributed - or Both

- Distributed Computing does not replace Mainframe Computing
- Side-effects of improper application of Distributed Computing
 - Proliferation of Servers
 - ▶ Spiraling Labor Costs
 - ▶ Difficult Security Environment
 - Data and process synchronization challenges
- These side-effects are causing a re-evaluation of the distributed computing model

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When to Use a Mainframe

- Use a mainframe
 - ➤ To consolidate core business workload into a structured, cost contained environment
- Use a distributed system
 - ➤ To run individual applications, which are new, or subject to change in a less controlled environment

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Agenda

15 minutes	Introduction to Next Generation Requirements	
45 minutes	SOA – The foundation of your Next Generation Solution	Using SOA to Build Your Next Generation Solution
40 minutes		Tools for Rapid Development and Deployment
15 minutes	Break	
30 minutes	A Mainframe Primer – Clustering to achieve scale	Mainframe Clustering
35 minutes		Continuous Availability
60 minutes	Lunch	
50 minutes	Optimize customer relationships by consolidation	Consolidating Data on System z
40 minutes		Consolidating Applications on System z
30 minutes	Business demands on technology	End-to-end Security and Compliance
20 minutes	Break	
30 minutes	Business demands on technology	IT service management
40 minutes	Delivering Next Generation Solutions at the lowest cost	

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