



## ***The Modern Mainframe... At the Heart of Your Business***

### **Introduction**



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## **I Had a Dream Last Night...**

- I dreamed that IBM introduced a new computing platform for the 21<sup>st</sup> 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

## Service Oriented Finance

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

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



**Service Oriented Finance  
CEO**

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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 segments 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

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

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

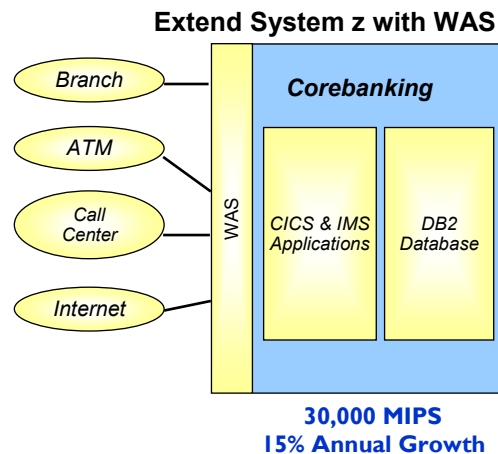
**Business Need:** Enhance ability to deliver new customer function across all applicable channels quickly, consistently and at a lower cost.

**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

**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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## Regulations Demand Compliance in Business Processes and Applications

### Basel II



- International accord for the handling of risk
- Requires the collection of 7 years of data
- Focuses on credit and operational risk
- Specifies the need for supervisory control



### International Accounting Standards



- International Financial Reporting Standards
- Enables common understanding of financial reports
- Mandatory in EU, Australia, Russia and some ME and AP countries

### Payment Regulations



- SEPA initiative to establish a single euro payments area
- Secure fast and efficient payments in the euro-zone
- Standard service levels to be enacted by 2010

### Corporate Governance



- Systems Control Effectiveness
- Decision Support Evaluation
- Internal Control Assessments/ Reviews & Governance
- Financial Reporting Disclosure

### Anti Money Laundering



- Many jurisdictions now have AML legislation in force (USA PATRIOT Act, UK Proceeds of Crime Act, etc).

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## 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 Next 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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## 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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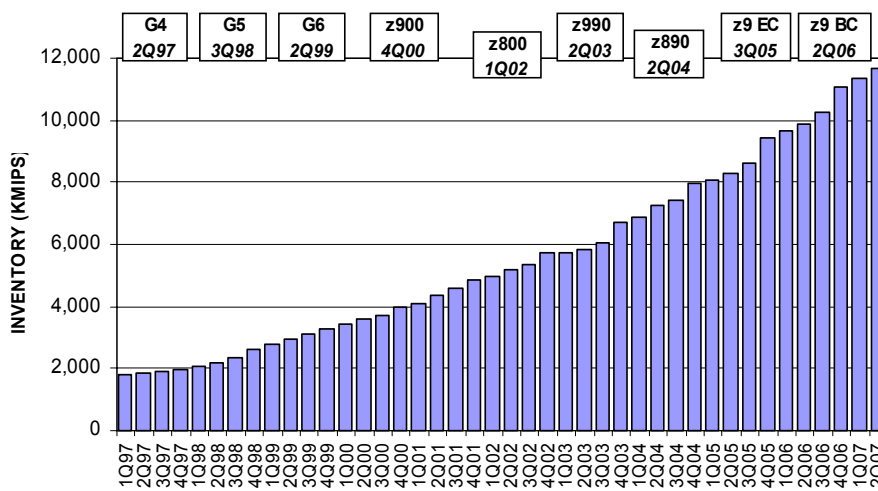
## IBM System z Growth Milestones

- 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, 1Q07 & CSI Finance '06

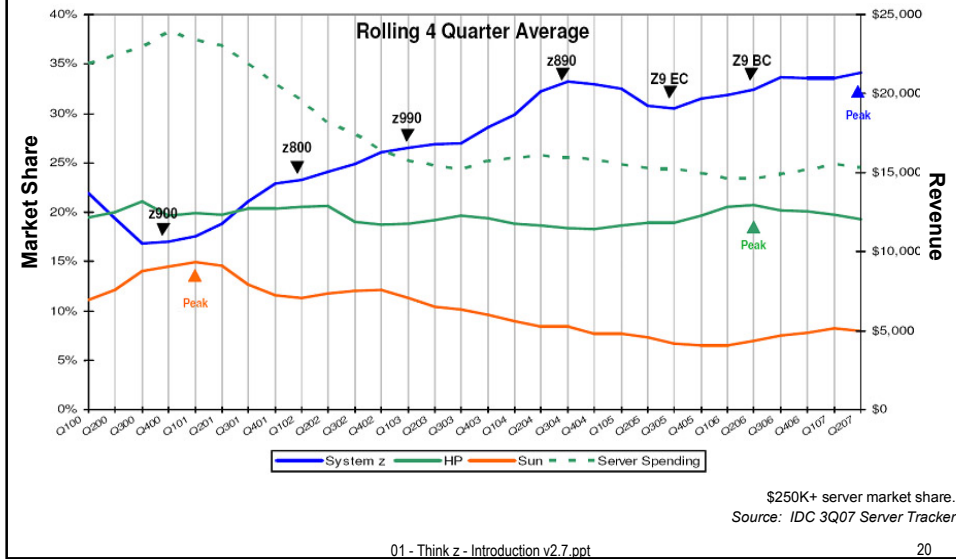
## Customers Are Installing More MIPS



CAGR 1997-2006 = 21%

Source: IBM STG Finance

## The Mainframe Is Gaining Market Share



## 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



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

