Extending Your Mainframe for More Business Value

Affordable Business Growth with System z

Quiz

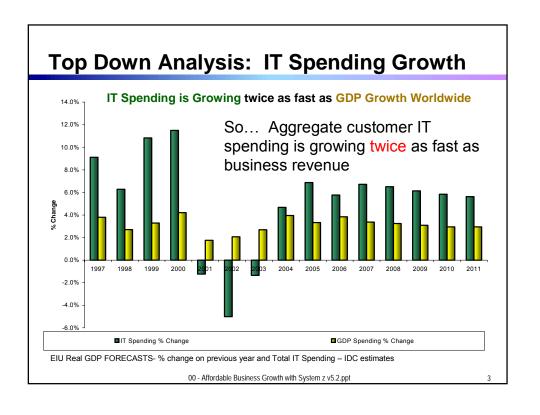
How fast are IT costs growing?

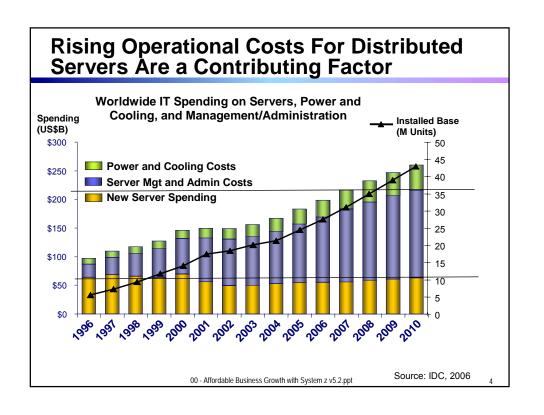
A: Slower than business revenue growth

B: About equal to business revenue growth

C: Faster than business revenue growth

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Two Challenges

How can we

Extend business capability quickly?

and

Prevent I/T expenses from growing faster than business revenue?

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Extensibility, A Definition from wikipedia

In software engineering, extensibility is a system design principle where the implementation takes into consideration future growth. It is a systemic measure of the ability to extend a system and the level of effort required to implement the extension.



System z Has Extensibility built in...

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Mainframe Extension Is a Winning Strategy

- Extension delivers new business capability faster
 - ▶ Building on the investments in I/T, data center and people skills
- Extension is a key cost-containment strategy
 - ▶ IT costs growing twice as fast as business revenue due to business imperatives and distributed deployments
- Mainframe extension can help reduce IT spending growth from twice business revenue growth to equal or less business revenue growth

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A Growing Mainframe Customer is a Business to be Emulated

- A survey of 585 large or growing IBM mainframe customers:
 - Average business revenue growth 12.1%
 - ► Average profit growth 21.9%
 - ▶ Average MIPS growth 24.3%
 - ▶ Average mainframe HW and SW spending growth 6.4%
- These customers are extending their existing mainframes to deliver new business capability while constraining IT spending growth to half of business revenue growth

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Mainframe Extension Solutions Achieve the Lowest Cost of Acquisition

Scenarios	Cost of Distributed vs. z	Distributed Cost Ratio
Mainframe Extension		
 Automobile Manufacturer WebSphere Case Study Major Retailer SAP Database Server Data Warehouse 	\$21.0M vs \$0.8M \$5.3M vs \$3.0M \$8.3M vs \$7.0M \$4.5M vs \$2.3M \$10.4M vs \$3.7M	26.0x 1.8x 1.2x 2.0x 2.8x
Linux Consolidation - IBM IGS - Brokerage Firm (Power) - Brokerage Firm (Floor) - Major Bank	\$901.9M vs \$521.2M \$12.7M vs \$7.8M \$25.5M vs \$10.7M \$46.9M vs \$19.9M	1.7x 1.6x 2.4x 2.4x

2.0X

Note: Automobile Manufacturer was a special case

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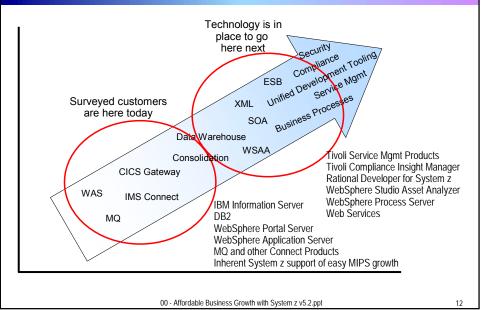
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State of Mainframe Customers

- Impressive numbers from an IBM survey of top mainframe customers
 - ▶ 59 out of top 59 global 500 banks
 - ▶ 18 out of top 20 global 500 insurance companies
 - > 7 out of top 9 global healthcare companies
 - ▶ 7 out of top 9 global retailers
 - ▶ All top US life, property, and casualty insurance companies in 2007 Fortune 500
 - ▶ Average mainframe capacity 15,000 MIPS and growing
 - ▶ Revenue is growing twice as fast as mainframe costs
 - Compared with "IT Spending is Growing twice as fast as GDP Growth Worldwide"

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Mainframe Extension Solutions Help Deliver New Business Capability Faster

- Organic Growth Easy Growth of Existing Workload
- Extend Access Channels with SOA
- New Data Workloads on System z
- Deliver Business Insight with a Data Warehouse on System z
- Extend Connectivity with a Mainframe Communications Backbone
- Consolidate Workloads to Reduce Costs
- Extend Data Security on the Mainframe
- Extend IT Service Management
- Extend Development Team Productivity

Today we'll take a closer look at these extension solutions and the mainframe technologies behind them...

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Mainframe Extension Solution – Organic Growth

- Easy Growth of Existing Workload
- Large enterprises grow at 10%+ annually
 - ➤ Top 25 Industry Leading Companies in the Fortune Global 500 grew 13% annually from 2005 to 2007
 - ▶ Top 59 Global Banks grew 22% annually in 2006
- Key growth areas
 - Expansion in geography and channels
 - Expansion in market segments
 - Mergers and acquisitions
- Growing pains and requirements
 - Business growth drives transaction growth
 - Need to seamlessly scale up workload capacity

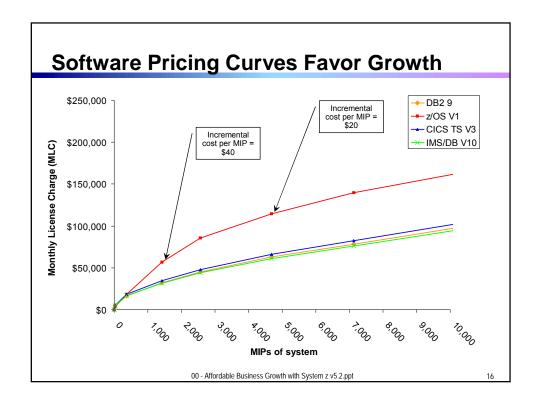
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Easy Organic Growth on the Mainframe

- System z designed to scale easily
 - Non-disruptive capacity on demand
 - System automatically uses new processor, memory, and storage capacity
- The cost of running incremental workload on the mainframe goes down as the total workload grows
 - Mainframe design and IBM pricing policies favor the addition of more workload
 - Special hardware pricing for qualified types of organic growth
 - ▶ Lower software costs per transaction as workload grows
 - Labor costs hold steady as workload grows
- Customers have learned that organic growth on the mainframe can be the most cost efficient choice

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"Specialty Engines" Reduce Cost for New Workloads

- Special assist processors for System z
 - ► For Java workloads (zAAP)
 - ► For selected DB2 workloads (zIIP)
 - ► For Linux workloads (IFL)

Attractive pricing

- ▶ \$125K for a 920 MIP processor
- ▶ No charge for IBM software running on zAAP/zIIP
- ▶ IBM software running on IFL costs 120 PVU's
- ▶ Free upgrade to next generation!

Requirements

- ▶ Max number of zAAP =< number of general purpose processors
- ▶ Max number of zIIP =< number of general purpose processors
- No limit on the number of IFL's

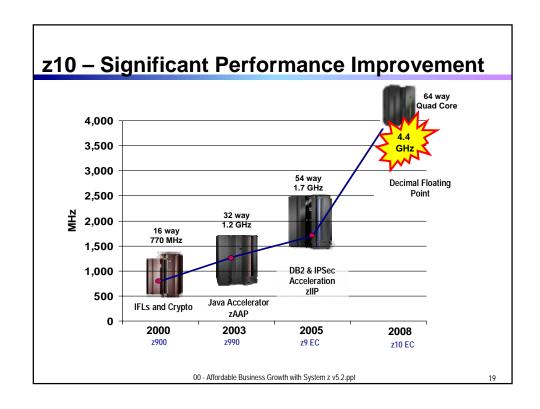


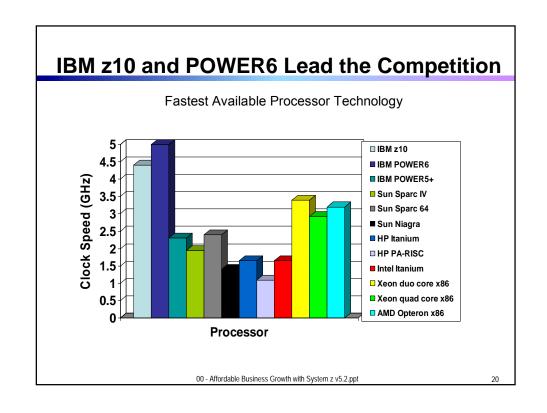
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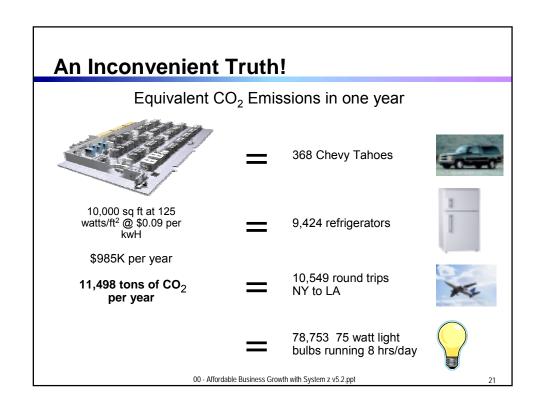
Which Workloads Can Benefit From Specialty Processors?

- What workloads can be run on a zAAP?
 - Java processing (SOA scenarios)
 - Up to 85%
- What workloads can be run on a zIIP?
 - Queries received via DRDA Remote Access Protocol (Data base server scenarios)
 - Up to 40%
 - Parallel queries (Data Warehouse scenario)
 - Up to 80%
 - ▶ Some of index maintenance utilities
 - IPSec and XML processing
 - Up to 71% (inbound) and 90% (outbound) for IPSec
- What workloads can be run on an IFL?
 - ▶ 100% of Linux workloads

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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.



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

But we've invested a lot of money in our current IT infrastructure.



Service Oriented Finance CIO

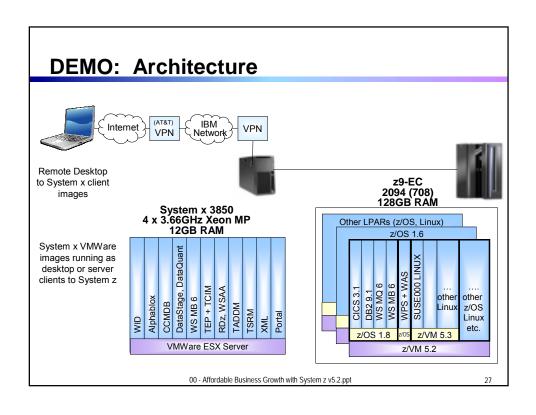
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The Value of Mainframe Computing

- Mainframe extension solutions meet customer requirements at lowest TCO
- SOA can help you reuse your existing mainframe investments
- Consolidation is a proven way to save money and simplify operations
- The mainframe delivers superior qualities of continuous operations, rapid scale up, and security
- Mainframe specialty processors and disaster recovery are a bargain
- Mainframes have a much lower environmental impact

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Agenda		
30 minutes	Affordable Business Growth with System z	
45 minutes	Extend Access Channels with SOA	
45 minutes	New Data Workloads on System z	
15 minutes	Break	
45 minutes	Deliver Business Insight with a Data Warehouse on System z	
30 minutes	Extend Connectivity With a Mainframe Communications Backbone	
60 minutes	Lunch	
45 minutes	Consolidate Workloads to Reduce Cost	
20 minutes	Extend Data Security on the Mainframe	
30 minutes	Extend IT Service Management	
15 minutes	Break	
45 minutes	Extend Development Team Productivity	
20 minutes	Extend Your Investment in System z	

