

A Fresh Look at the Mainframe

The New Mainframe - At the Heart of Your Business Operations

What is a Mainframe?

- A computer system designed to run commercial workloads at high levels of utilization without stopping



The Mainframe...

- Maximization of design where throughput is the goal
- Tight control yields reliability, recovery, and security
- Sharing resources maximizes utilization and efficiency
- Mainframe has economy of scale
- Minimize staffing requirements by running a lot of work in one place
- Delivers tremendous Total Cost Ownership (TCO) when fully loaded
- A sustainable value proposition

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
- Cost of power is increasing
- TCO pressure is driving customers to consolidate workloads on virtualized platforms
- Growing use of Linux
- Network economics favor consolidation once again
- The mainframe is at the center of SOA
- IBM has delivered dramatic mainframe price reductions

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

IBM System z Economy of Scale

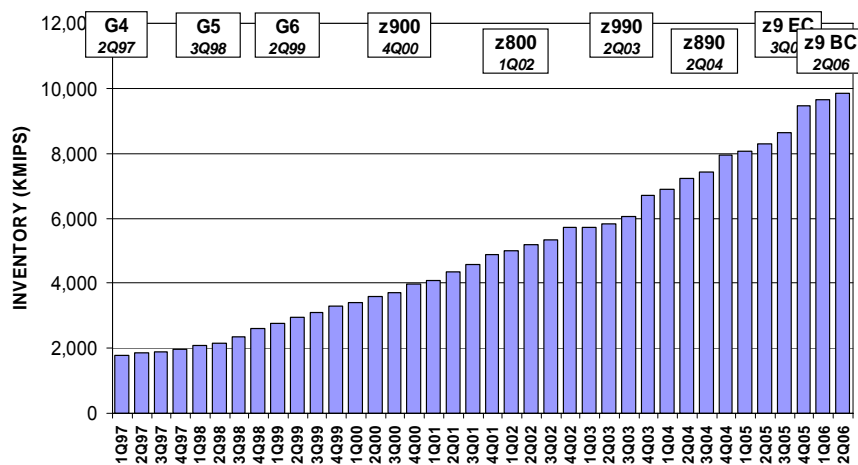
■ Near-linear scalability	up to 900,000+ concurrent users
■ “Mean Time Between Failure”	measured in decades versus months
■ ¼ network equipment costs	virtual versus physical
■ 1/25th floor space	400 sq. ft. versus 10,000 sq. ft
■ 1/20 energy requirement	\$32/day versus \$600/day
■ 1/5 the administration	< 5 people versus > 25 people
■ Highest average resource utilization	> 70% versus < 15%
■ Highest concurrent workload	hundreds of applications versus few



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5

Customers Are Installing More MIPS



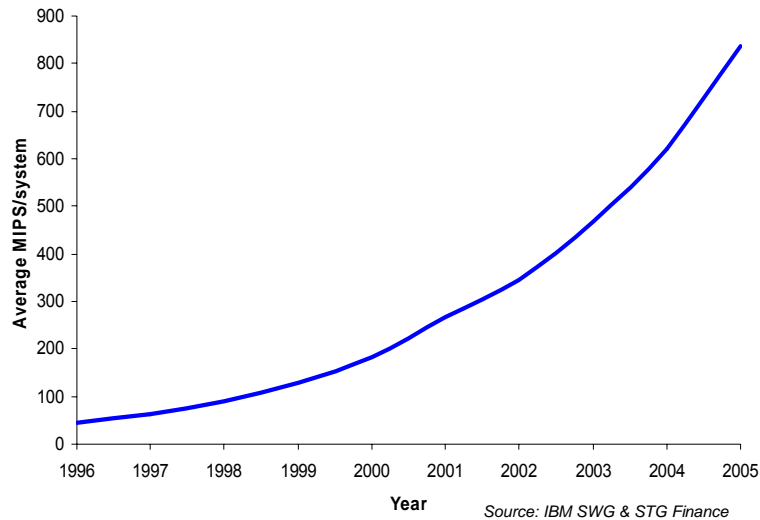
CAGR 1997-2005 = 22%

Source: IBM STG Finance

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7

Average Size of Mainframe Systems WW is Increasing



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8

System z Today

- 490 of IBM's top 500 customers use CICS
- Over 95% of Fortune 1000 companies use IMS
- DB2 for System z is in 25 of the top 25 worldwide banks, 23 of the top 25 US retailers, 9 of the top 10 global life/health insurance providers
- IMS and CICS systems execute over 80 billion transactions a day
- System z increased market share 14 points while Sun, HP, and others fell over past 5 years
- 60% of System z revenue is driven by new workloads (Java, Linux, Database, SOA)

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9

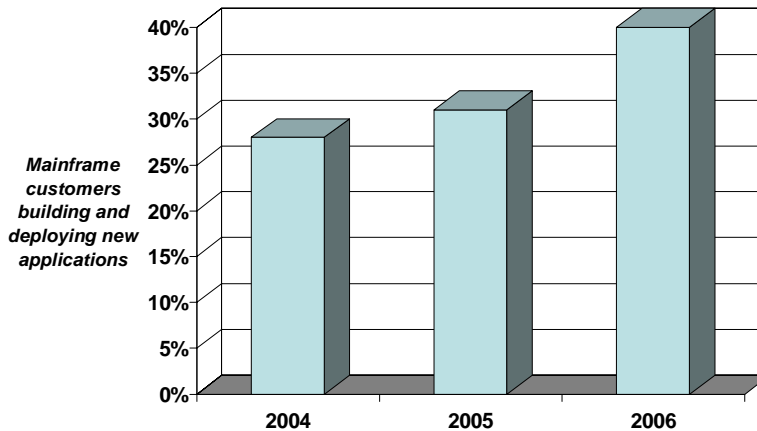
The New Mainframe – Getting Better All the Time

- Platform for Service Oriented Architecture
- Modern Application Development Tools
- Data integration built on rock-solid technology
- A new generation of system management tools
- Best Qualities of Service
- The industry benchmark for Secure computing
- Industry-leading Disaster Recovery capabilities
- The lowest Cost of Ownership through centralized computing

New Mainframe Ecosystem Initiatives

- ISV program for System z
 - ▶ Free technical support and use of System z for porting
 - ▶ Go to market support
 - ▶ Via IBM's Partner World Industry Network
- IBM academic initiative for mainframes
 - ▶ 250 colleges and universities, 300 professors
 - ▶ 20,000 new skills by 2010

Momentum for New Mainframe Applications is Building



Source: Evans Data Corp, Enterprise Development Survey, Winter 2005

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12

Mainframe or Distributed – or Both

- Distributed Model is driven by application isolation and rapid deployment
 - ▶ Unrestricted build and test in a non-shared environment
 - ▶ Low impact to critical operations
 - ▶ Less sensitivity to change control and comprehensive system test requirements

- Side-effects of improper application of Distributed Computing
 - ▶ Proliferation of Servers
 - In many cases 1000s of servers with low utilizations
 - ▶ Spiraling Labor Costs, Software Costs, and Power/Cooling Costs
 - ▶ Difficult Security and Disaster Recovery
 - ▶ Data and process synchronization challenges
 - Interoperability problems

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13

Meet On Demand Insurance (ODI)

We need to transform from a regional insurance company to a global insurance company

We need to work better with brokers, underwriters, and customers

We need to increase revenue and improve profits



**On Demand Insurance
CEO**

On Demand Insurance – I/T Challenges

Our business direction will require significant new solutions

Should I use distributed solutions or do more with my mainframe?



**On Demand Insurance
CIO**

On Demand Insurance

So, how can the mainframe help me meet my business objectives?



On Demand Insurance
CEO

Agenda

Introduction	09:30 – 9:45
Unlock the Value of Mainframe Assets using SOA	9:45 – 10:25
Productive Tools for Application Development	10:25 – 10:55
BREAK (15 minutes)	10:55 – 11:10
Information on Demand	11:10 – 12:00
The New Face of Mainframe Operations	12:00 – 12:30
LUNCH (1 Hour)	12:30 – 13:30
The Mainframe Design Point – Fundamentally Better	13:30 – 14:20
The New Face of Mainframe Security	14:20 – 15:05
BREAK (20 Minutes)	15:05 – 15:20
Keeping You Business Running When Disaster Strikes	15:20 – 15:40
Consolidate and Save with Mainframe Linux	15:40 – 16:05
When the Mainframe Really Is the Lowest Cost Platform	16:05 – 16:30
Rational Tools on System z	16:30 - 17:00

