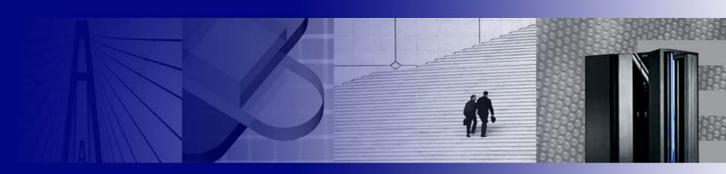


System z Technology Update



Jim Stallings General Manager, IBM System z

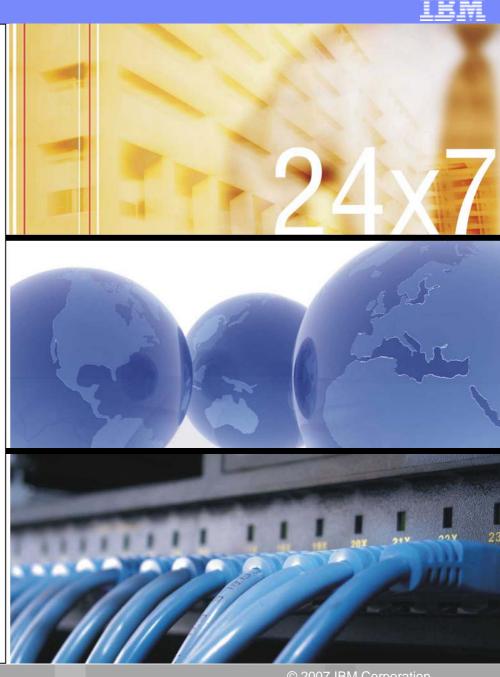


A New Era for Business

24 x 7

Global

Highly networked





Do you suffer from these symptoms?

Increasing complexity

Rising costs

Security threats





Mainframe: Better for business

- Security
- Reliability
- Automation
- Economy of scale





Today's mainframe

Four Enterprise-wide Roles of the Mainframe

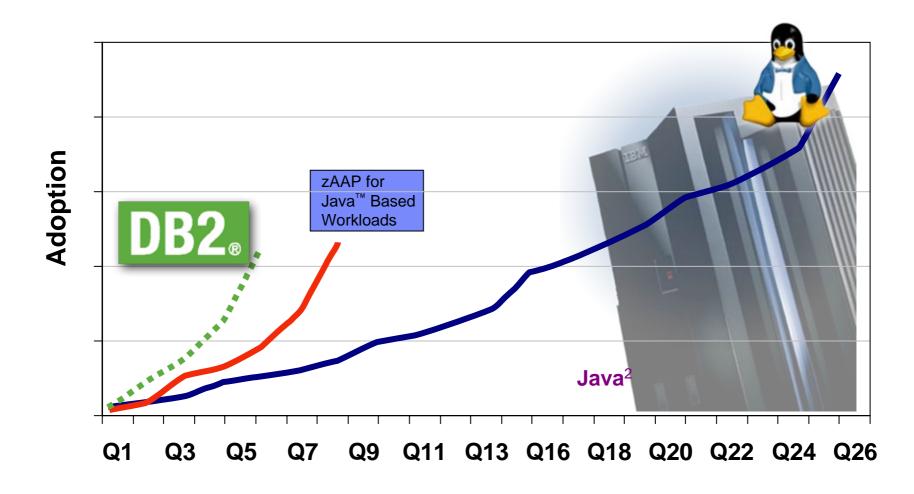
- Enterprise business resilience manager
- Enterprise security manager
- Enterprise workload manager
- Enterprise hub for data & SOA

If data is the life blood of the business . . . then your data server is the heart of your SOA



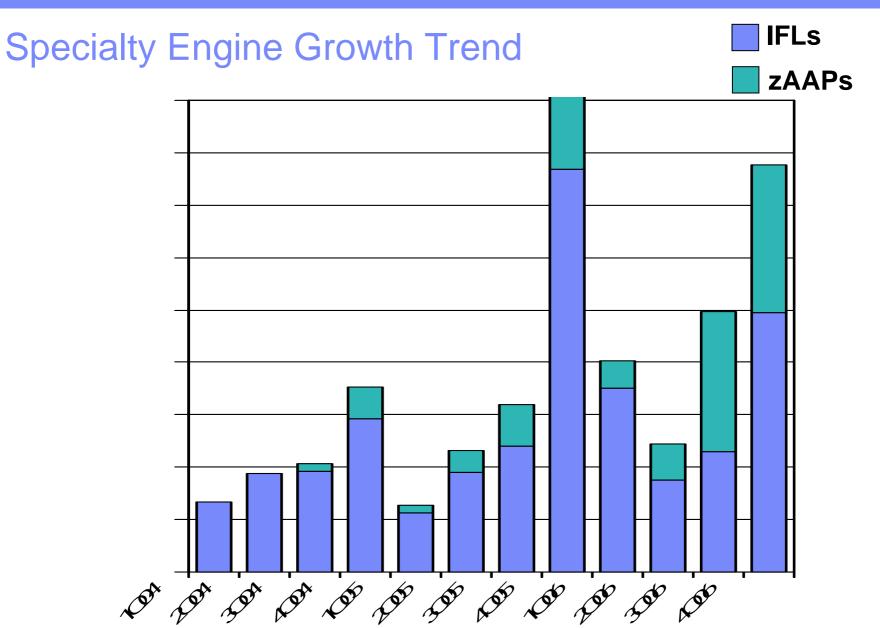


Dynamic Growth in New Workloads



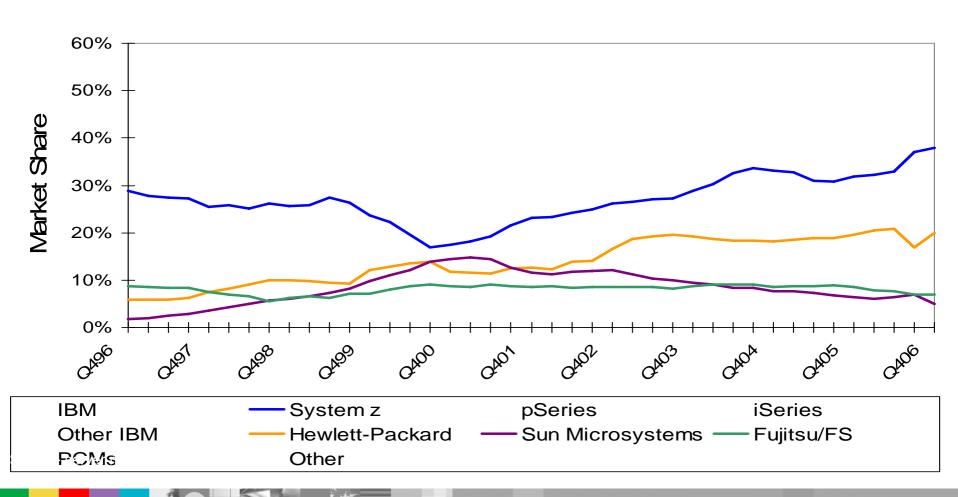
Source: IBM internal data







Mainframe Market Share





2006 Major Milestones



4Q Largest Hardware Revenue Quarter Since 4Q98

Top 25 Banks in the World

Record High for Market Share: 38%

Record Year for Specialty Engines

10 Million MIPS Installed

\$1 Billion in Revenue from SIs

First Online Game Client: Hoplon Infotainment





New Customers and New Markets



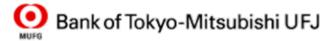
























Announced Yesterday...

"Sparkassen Informatik Signs Strategic Five-Year Contract with IBM"



- €700 million continued investment in the mainframe
- 82.8 million customer accounts
- 30 billion transactions per year
- Enterprise-class SOA
- Performance and cost structure
- Flexibility for growth



IBM

Key Drivers

Innovation explosion

Server Consolidation

India, China

Control







Integrated Security

ID Management

EAL5

Encryption Facility

Key Management





Hoplon Infotainment







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Nexxar



- √ Highly available and manageable
- ✓ Security, reliability, scalability and flexibility
- √Support growth by acquisition business
- **✓ Server consolidation on Business Class**
- ✓ Reduced labor costs by 75%

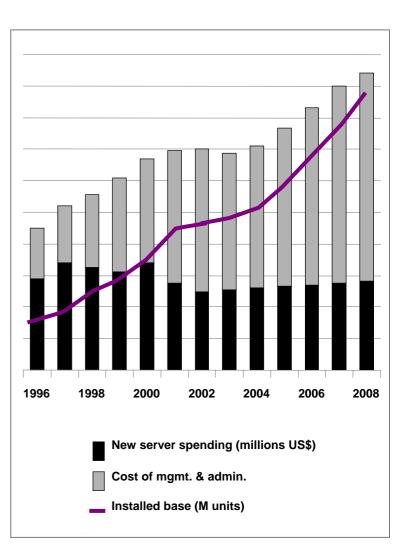






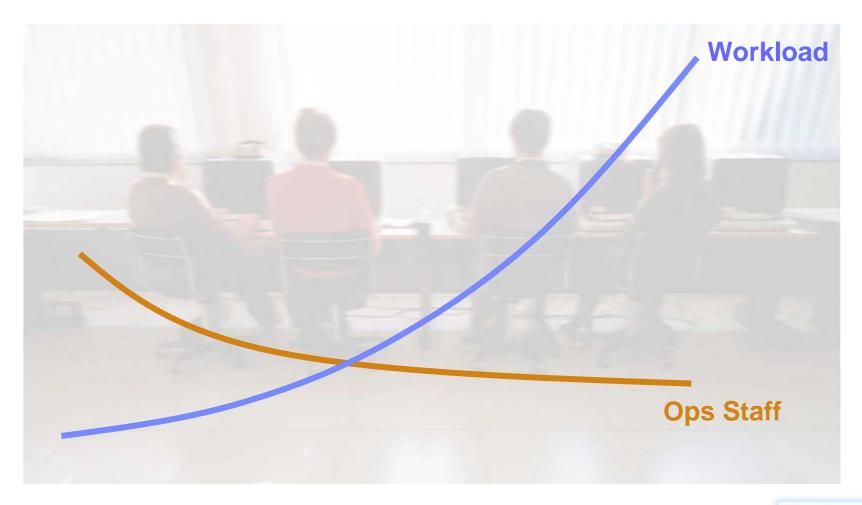
IT Complexity Drives Many Hidden Costs

- Managing today's mixed IT platform environments can be complex and costly
 - Thousands of servers
 - Underutilized assets
 - Thousands of software licenses
 - Thousands of distributed control points
 - Ineffective costing methodologies
- The Result
 - Massive complexity
 - Spiraling people costs
 - Increased availability and downtime costs
 - Increased security breach costs
 - Sub-optimal investment choices





System z9 – Managing Growth and Complexity









System z9 Business Class





Breakthrough Economics

FNBO consolidated on a single IBM mainframe and IBM BladeCenter®

- 30 UNIX® servers
- •500 Applications
- •560 Microsoft® Windows® servers

Results:

- •70% improvement in hardware utilization
- Savings: \$2 million/yr average







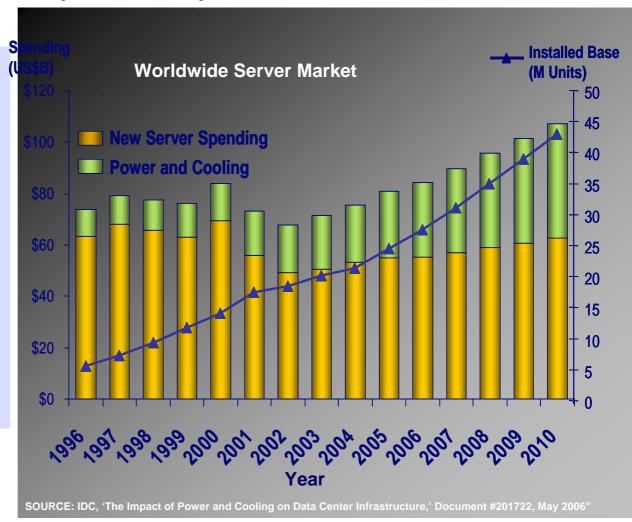
The New Economics of IT

Power/cooling spend may eventually exceed new server

spending

2000 – Raw processing (the horsepower" is the primary goal, while the infrastructure to support it is assumed ready

2006 – Raw processing "horsepower" is a given, but the infrastructure to support deployment is a limiting factor





Energy Efficiency

RFG analyst case study: Retailer consolidated 600 x86 servers onto a single mainframe

- Eliminated an entire floor of servers
- Reduced the administrative staff by 10
- •Cut power and cooling costs by 80%







Nationwide saves \$15M with System z

TCO: \$15M savings over 3 years

- ▶ 80% reduction in data center floor space needs; power conservation
- ▶ 50% reduction in hardware & OS support efforts
- ▶ 70% average CPU utilization

Dynamic allocation of compute power

- Capacity on demand
- ▶ Tested 22 times capacity for Super Bowl 2006 Ad blitz traffic



IBM

Today's mainframe

Designed for data serving and SOA

Architecturally compatible

Operationally superior

If data is the life blood of the business . . .

then your data server is the heart of your SOA





Mainframe Ecosystem

Customer councils

IBM Academic Initiative

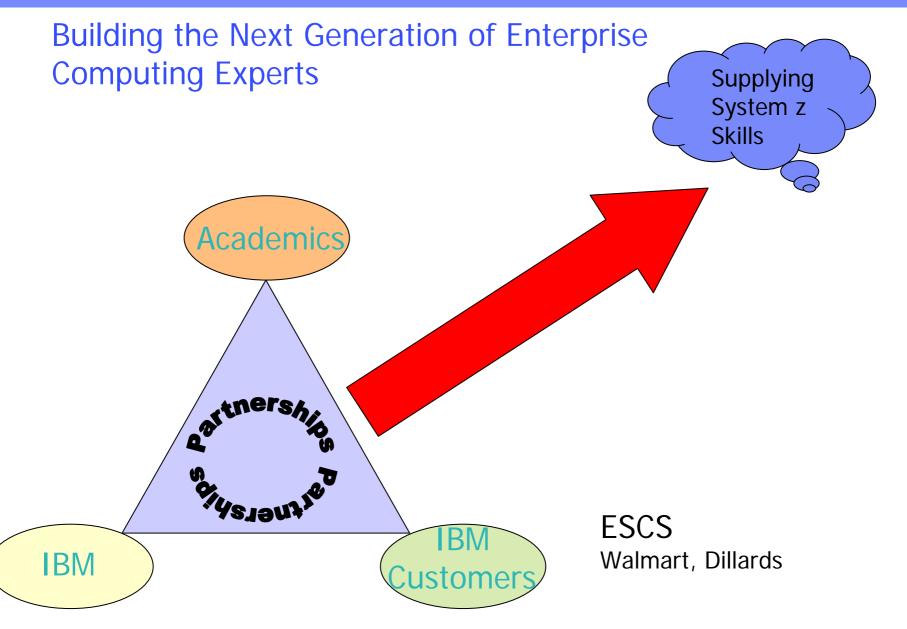
- 294 colleges and universities
- 23,000 students educated already
- Student contests 2.500 students/300

Partners

- 1,350 ISVs
- 1,500 mainframe partners







Mainframe Academic Initiative



Fachhochschule Bochum, Germany



ESIAL Nancy, France



Universidad Politécnica de Madrid (UPM), Spain



Kungliga Tekniska Høgskolan (KTH)



Czech Technical University, Prague, Czech Republic



Tshwane University of Technology, South Africa



Politecnico Bari, Italy



University of Surry, Guildford, UK



Strategic Investment

System z9

- ▶ \$1.2 billion
- ▶ 5,000 tech professionals





- Joint Initiative
- Expanded Technology

\$100M simplification¹



Summary

- Today's Mainframe: Better for Business
- New Workloads / Business Class
- Renewed Interest in the Mainframe
- Security, Economics, Power Efficiency
- Next Generation of Mainframe Eco-system