Extending Your Mainframe for More Business Value

Extend Your Investment in System z

Extend the Mainframe Like Never Before

So mainframe extension sounds like the strategy I need.



Service Oriented Finance CIO

It gets better...the System z10 is a new release of the mainframe.

It has *breakthrough* performance to deploy the extensions we have discussed.



IBM

09 - Extend Your Investment in System z v5.3.ppt

System z10 Vital Statistics

	System z9	System z10
MIPS per processor	580	920
Maximum number of processors	54+10=64	64+13=77
Maximum MIPS per system	17,802	30,361
Clock-speed	1.7 GHz	4.4 GHz
I/O bandwidth	2.7 GBps	6.0 GBps
One MSU	7.3 MIPS	8.2 MIPS
PVU's (IFL)	100	120

60% more

20% more

70% more

Compute-intensive tasks benefit ~ 2X

122% more

12% reduction in MLC price performance

32% reduction in OTC price performance

09 - Extend Your Investment in System z v5.3.ppt

2

Typical Banking Data Center Workload

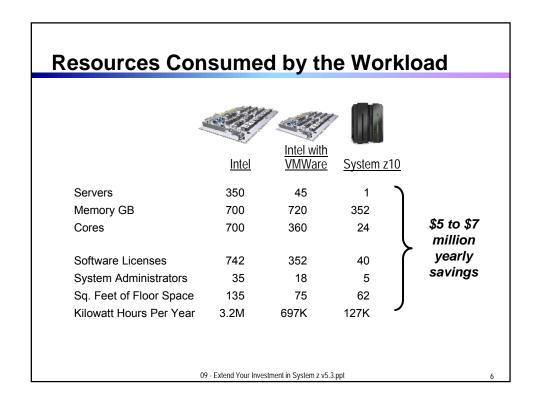
- Banking by Telephone
 - ▶ Interactive Voice Response (IVR)
 - Voice XML with WebSphere Application Server
 - ▶ 50 transactions per second
 - Each transaction is also logged to DB2 or Oracle
 - 24x7x365 availability required
- Branch Transactions Sent to Backend Core Systems
 - Message backbone with WebSphere MQ
 - Millions of messages per day
- Workload is Separated by Function
 - Production, development, quality assurance testing
- Let's Consider the Cost of Hardware, Software, Labor, Power, Cooling and Floor Space Over 5 Year Timeframe

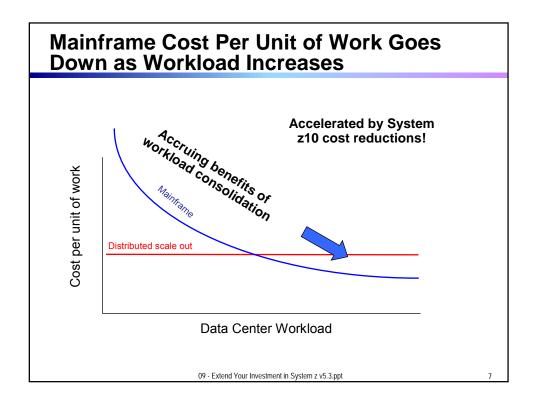
09 - Extend Your Investment in System z v5.3.ppt

4

Three Choices to Run the Workload Intel Servers System z10 Intel Servers z/VM, Linux, IFL's with VMWare 350 Intel Servers 1 System z10 45 Larger Intel Servers 24 IFL's 4.4 GHz 2.8 GHz each 3.2 GHz each 700 cores 360 cores 24 cores 1,263,555 rated 2,464,650 rated 14,238 MIPS capacity capacity Low Utilization **Better Utilization High Utilization**

09 - Extend Your Investment in System z v5.3.ppt





Remember This:

- Deploying a new application on System z will probably cost less if:
- It is Incremental Workload on an existing system
- Specialty Engines can be used
- Disaster Recovery is required

09 - Extend Your Investment in System z v5.3.ppt

The Value of Mainframe Computing

- Extending mainframe core business systems is a strategy to constrain growth of IT costs
- Mainframes deliver superior qualities of continuous operations, rapid scale up, virtualization and security
- ☑ Consolidation saves money and simplifies operations
- ☑ Mainframes have a lower environmental impact
- Modern mainframes leverage the latest hardware and software technology for maximum business value
- Modern mainframe tools enable speed to value, flexibility, deployment, productivity and reduced cost

09 - Extend Your Investment in System z v5.3.ppt

0

