IBM

The next generation iSeries...
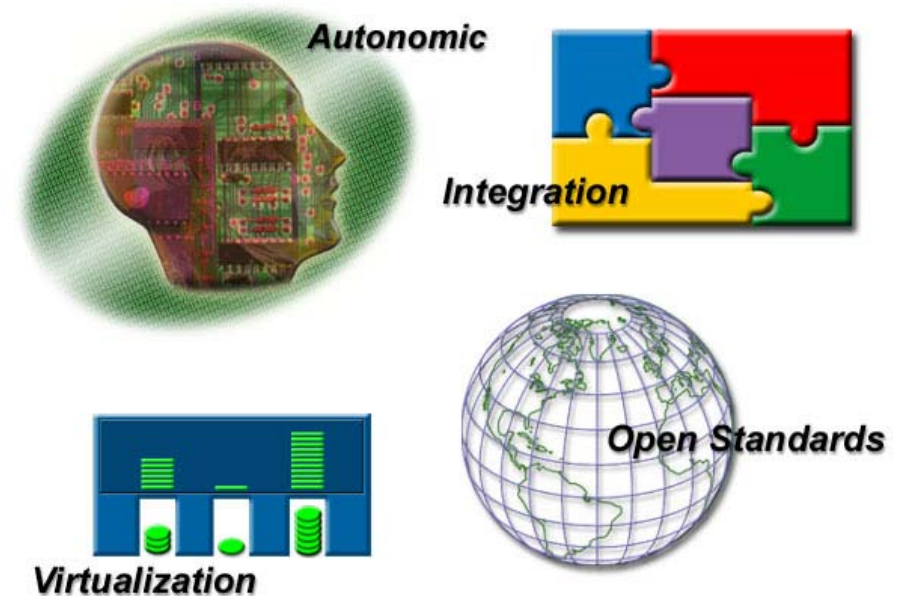## …simplicity in an on demand world

Ian Jarman
iSeries Product Manager
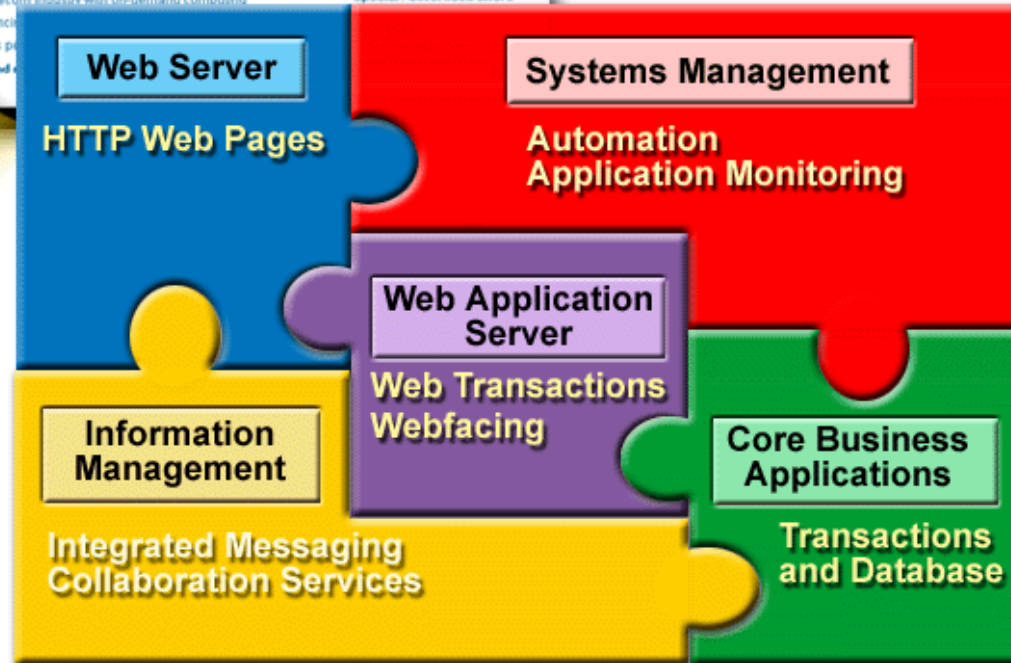**IBM**

The next generation iSeries…
… simplicity in an on demand world

- e-business adoption

  - Access
  - Enterprise integration
  - On demand

- on demand businesses

  - Responsive in real-time
  - Require variable cost structures
  - Focused on core competencies
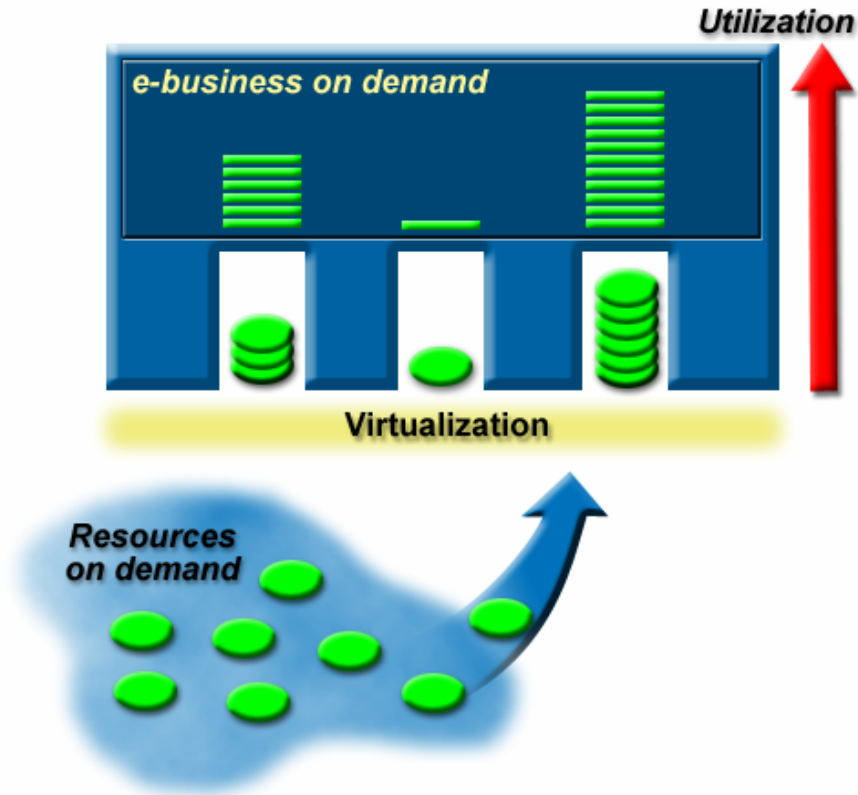 - Resilient to challenges

**on demand
Operating Environment**

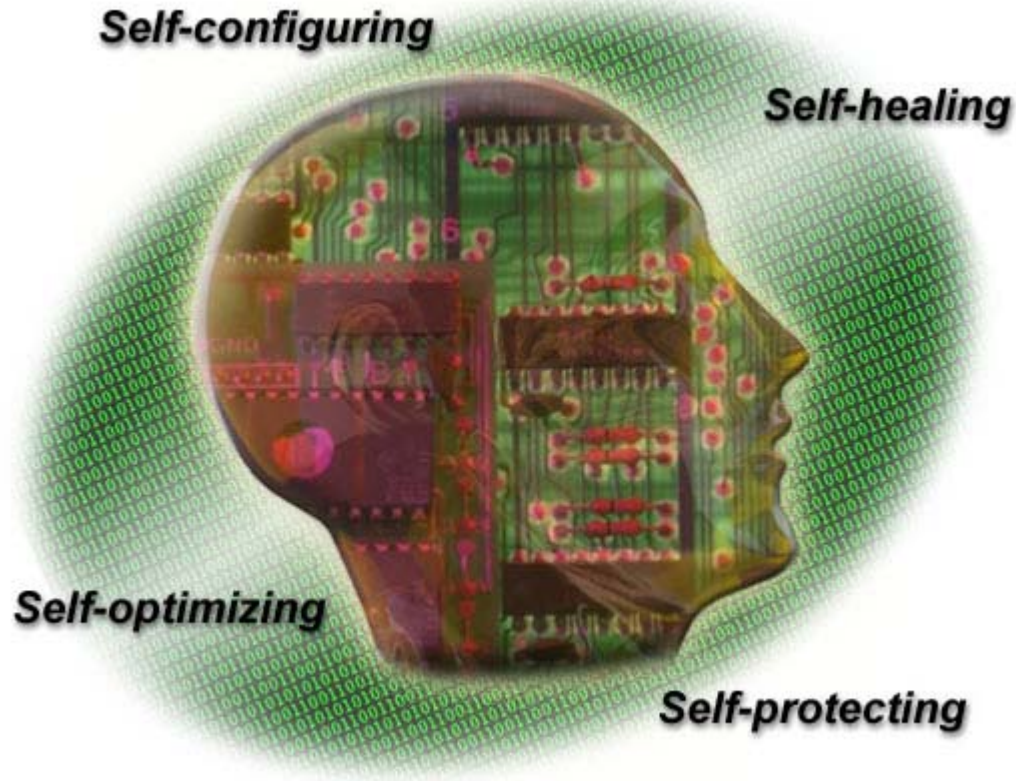

Autonomic

Integration

Virtualization

Open Standards

Integration

The next generation iSeries…simplicity in an on demand world

Virtualization

Open Standards

The next generation iSeries…simplicity in an on demand world

Autonomic Computing

Self-configuring

Self-healing

Self-optimizing

Self-protecting

The Customer Challenge: Solving the Cost^3 Equation

1) **Cost of Acquisition …**

   Upfront server, operating system and middleware price

2) **Cost of Ongoing Operations …**

   Ongoing cost of skills to deploy and manage solutions

3) **Cost of Technology Transition …**

   Long term application & platform investment costs

The next generation iSeries…simplicity in an on demand world

Server Consolidation = Managing Operating Costs

"My job is to deliver babies and not manage server farms. We overcame this challenge by consolidating everything on iSeries."

Professor Hwan-wook Chung (M.D, PhD)
CIO, Samsung Cheil Medical Center, South Korea

Cost³ and iSeries 2003 Announcements

1) **Cost of Acquisition …**

  Delivering new servers

  Eliminating interactive features

  Reducing software costs

– Announcement January 20, 2003,

– General Availability February 21, 2003

2) **Cost of Ongoing Operations …**

  Providing ultimate flexibility: On / Off CUoD

  Extending IBM middleware integration

  Regaining control of server farms

3) **Cost of Technology Transition …**

  eServer on demand management environment

The next generation iSeries…simplicity in an on demand world

The Customer Challenge: Solving the Cost³ Equation

1) **Cost of Acquisition …**

   Upfront server, operating system and middleware price

… New Servers,

New Packaging

IBM eServer iSeries – New, Simplified Product Line

i890	
i890	
i870	
i825	
i810	
i810	
i810	
iSeries 800	
iSeries 800	

New!

New!

New!

New!

Enhanced!

Startup Capacity
On/Off CUoD

Significantly simplified product line

Enterprise Edition features maximum on demand capabilities

Low rate financing available from IBM Global Finance

The next generation iSeries…simplicity in an on demand world

On demand – The Right Level for Your Business[1]

- ## Enterprise

Includes maximum on demand capabilities

- ## Standard

Aggressively priced for e-business workloads

Multiple operating environments
Web modernization (WebFacing)

On / Off CUoD
Dynamic LPAR
OS/400 and DB2 licenses

Multiple operating environments
Web modernization (WebFacing)

On / Off CUoD
Dynamic LPAR
OS/400 and DB2 licenses

License for popular e-business & datacenter management software

Maximum interactive 5250 CPW

Processor activation for Linux
Integrated xSeries Server

Education and Services to accelerate deployment of WebSphere, Linux and Windows
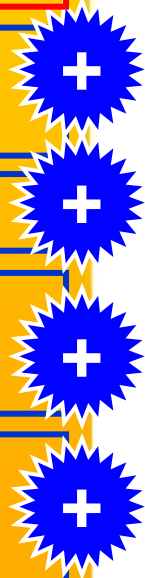
Note: [1] Edition contents vary by model. Example shown here is for i870 or i890

The next generation iSeries…simplicity in an on demand world

Enterprise Edition Software Value (i825, i870, i890)

- **IBM e-business software**

  Choice of WebSphere Application Server

  Lotus Sametime

  QuickPlace

  DB2 Query Mgr and SQL Toolkit

  DB2 SMP

  DataPropagator for iSeries

  DB2 Extenders -- XML and Text

- **IBM Datacenter Management Tools**
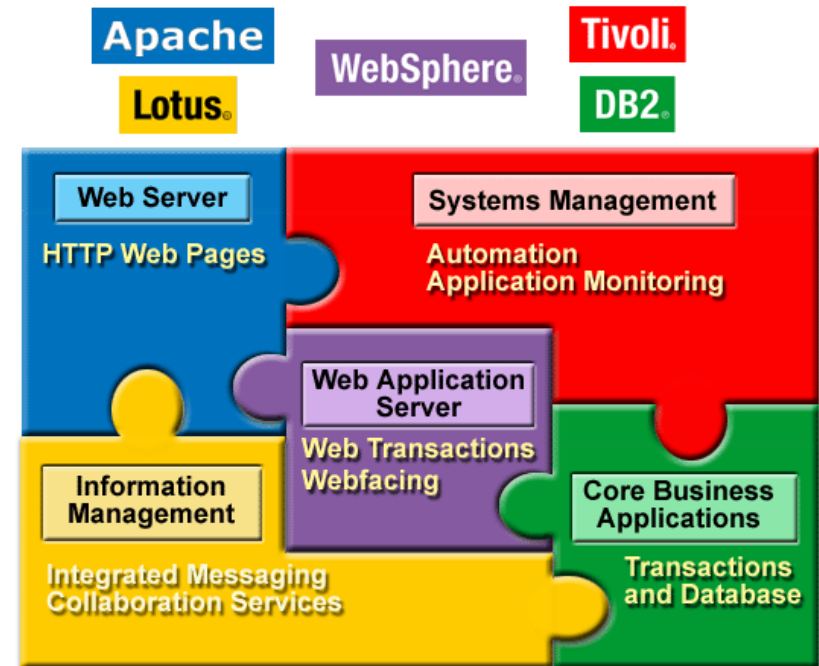
  Performance Tools

  HA Cluster Resources

  Media and Storage Extensions
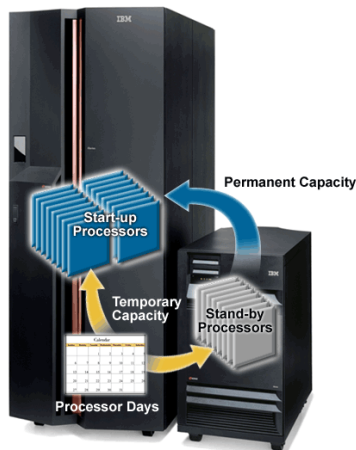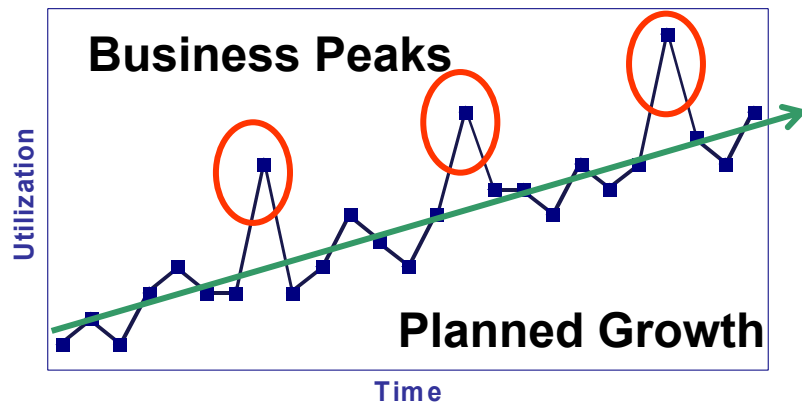
  Backup Recovery and Media Services

  Tivoli Monitoring -- PAC for Web

  Tivoli Storage Manager Extended Edition

Notes: Licensing includes one server license for software charged by software tiers, or one license for each startup processor for software charged by processor.

The next generation iSeries…simplicity in an on demand world

On / Off Capacity Upgrade on Demand

Business Peaks

Planned Growth

Utilization

Time

- Adjust to unpredictable demand without interrupting operations or applications

- Affordable processor activation price simplifies upgrade procurement

- Activate a processor for Linux without paying for OS/400

- Permanent Capacity

  Planned growth, Pay when purchased

- On / Off Temporary Capacity

  Business peaks, Pay after activation

  14 bonus processor days

On / Off Capacity Upgrade on Demand

"The new iSeries servers provide outstanding flexibility and price performance for J.D. Edwards customers. The On/Off Capacity Upgrade on Demand feature allows us to continue to deliver solutions that respond to customers' rapidly changing business environments."
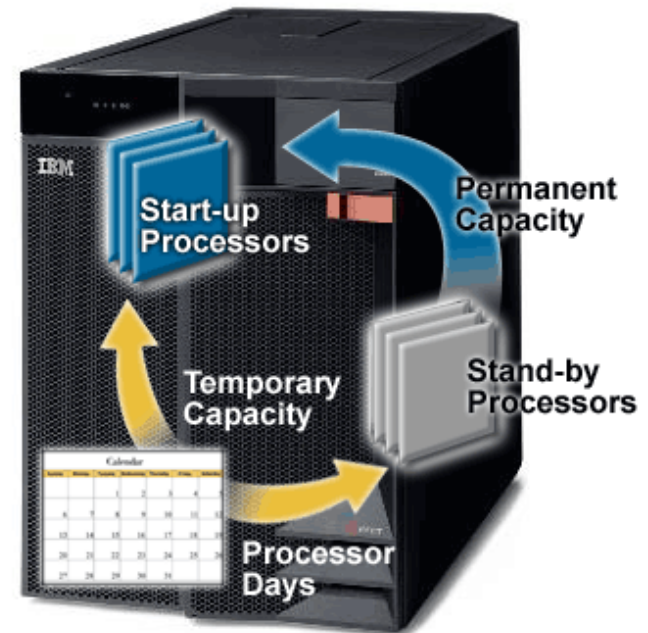
Les Wyatt, Senior Vice President and
Chief Marketing Officer, J.D. Edwards

High Performance Direct Attach Storage Options

Achieve up to 3X throughput improvements with enhanced PCI-X I/O options

Improve performance with IBM's 3 disk optimized RAID-5

New 35GB and 70GB 15K RPM disk drives

New PCI-X I/O towers with rack mount options

New PCI-X Ultra RAID Disk Controllers	**Write-Cache (Max)**	**Min / Max drives per RAID set**
High performance - 2757	**757 MB**	**3 / 18**
Low cost alternative for SME servers - 2782	**40 MB**	**3 / 12**

The next generation iSeries…simplicity in an on demand world

Software Maintenance

- **Provide users timely access to proven solutions**

- **Improve IT productivity and deployment effectiveness**

- **Single, cost effective offering combining software upgrade entitlement and remote technical support**
  - Access current and future releases
  - Voice and electronic support
  - Defect and routine use assistance

- **One year contract sold with new iSeries servers or new sales**
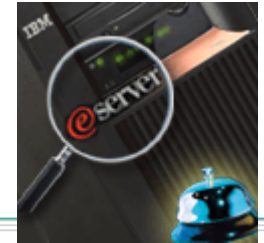
The Customer Challenge: Solving the Cost³ Equation

2) **Cost of Ongoing Operations …**

Ongoing cost of skills to deploy and manage solutions
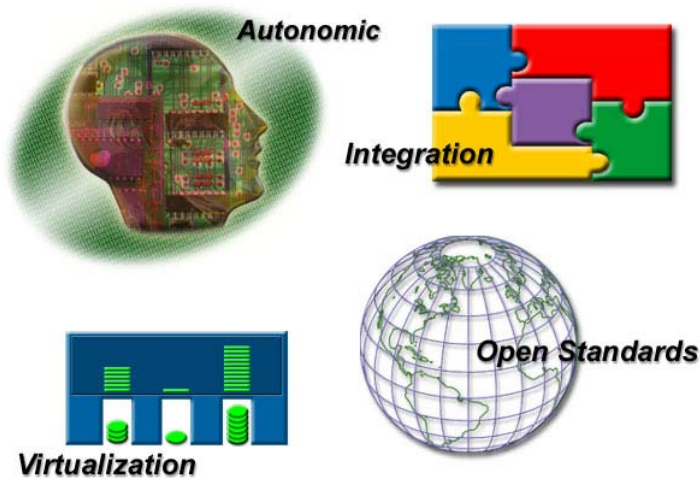
… iSeries' on demand operating environment

WebSphere - Express for iSeries

"I just installed WebSphere – Express for iSeries. It was incredibly easy. The install wizard built a WebSphere server which came up fully integrated with the Apache-based HTTP Server on the first try! This thing is an administrator's dream come true."

Bob Cancilla
Republic Indemnity
Company of America

Includes Telephone Directory & wizards exclusive to iSeries!

WebFacing & WebSphere Development Studio Client
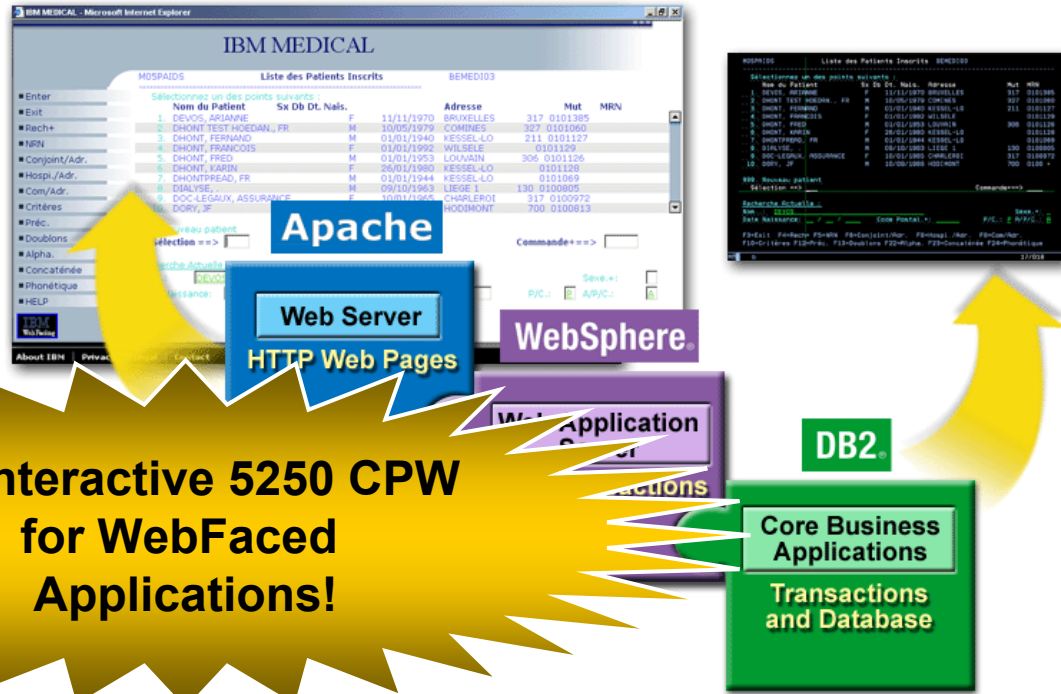
No Interactive 5250 CPW for WebFaced Applications!

"We were absolutely blown away by how easy and quick it was to create Web interfaces for our 5250 applications. IBM has a winner!"

Dave Bauer – Architect, Xperia Solutions

Lotus Domino 6, iNotes, Sametime & Quickplace

"Apria currently has about 2500 Sametime users on our iSeries. We're extremely pleased with the increased productivity our employees get by using Sametime."

Empower employees with dynamic workplaces

George Suda – VP, Information Systems Apria Healthcare.

DB2® UDB for iSeries

- **Reduce DBA costs with extensive automation and integration of database**

- **Improve DBA productivity with self-optimizing queries, autonomic index advisor**

- **Exploit processor scalability with DB2 SMP parallelism**

- **Enable B2B data interchange through DB2 XML Extenders**

- **At the forefront of SQL and XML database open standards compliance**

The next generation iSeries…simplicity in an on demand world
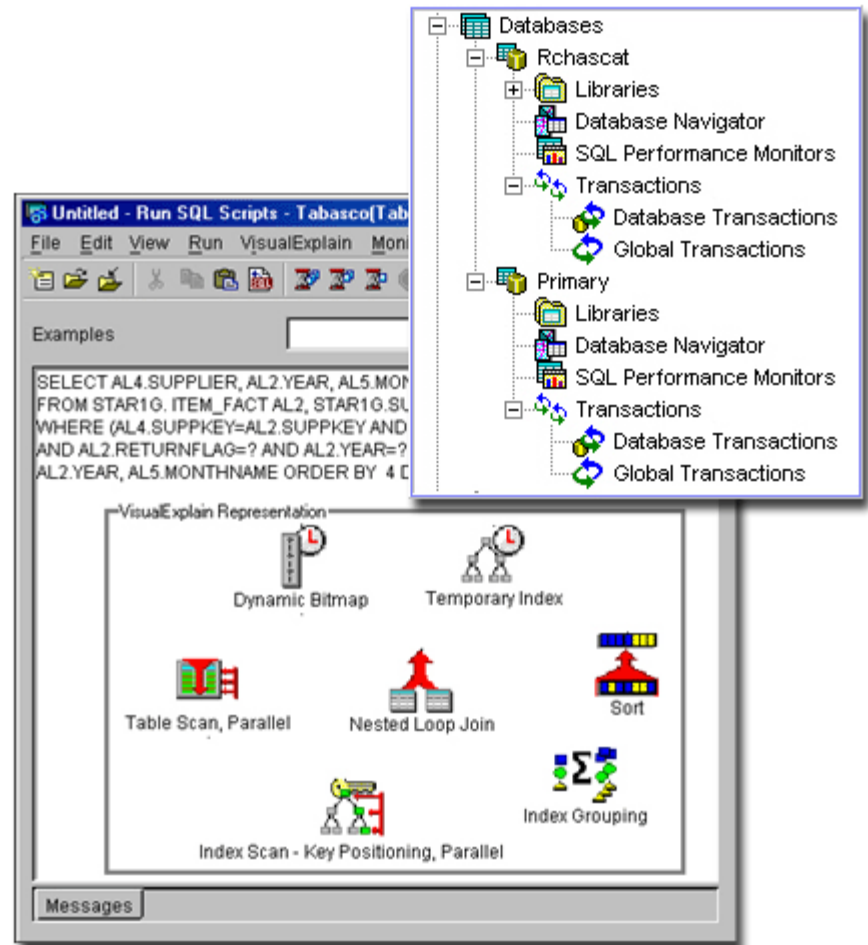
IBM Tivoli® Storage Manager Enterprise Edition
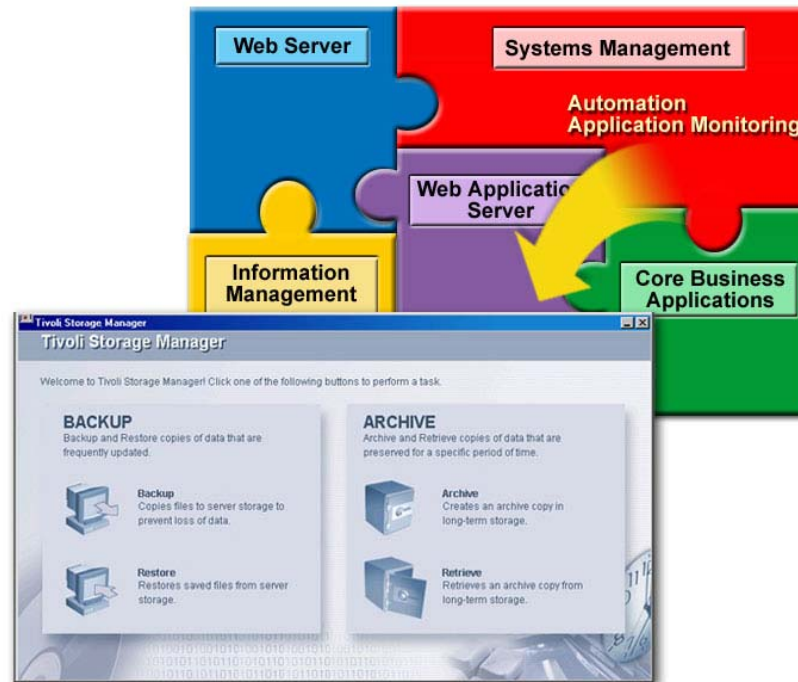
- Delivers integrated data protection for client backup and archive

- Centralized management, comprehensive policy based automation

- Complements Backup Recovery and Media Services for iSeries

iSeries Access for Web

- Simple, browser-based access to iSeries and Web applications

- Easy to configure, deploy and customize with central administration

- No complex browser JVM setup and 'no-touch' client footprint

The next generation iSeries…simplicity in an on demand world

Server Consolidation with Linux and Windows

OS/400

Virtual Storage

Virtual Ethernet
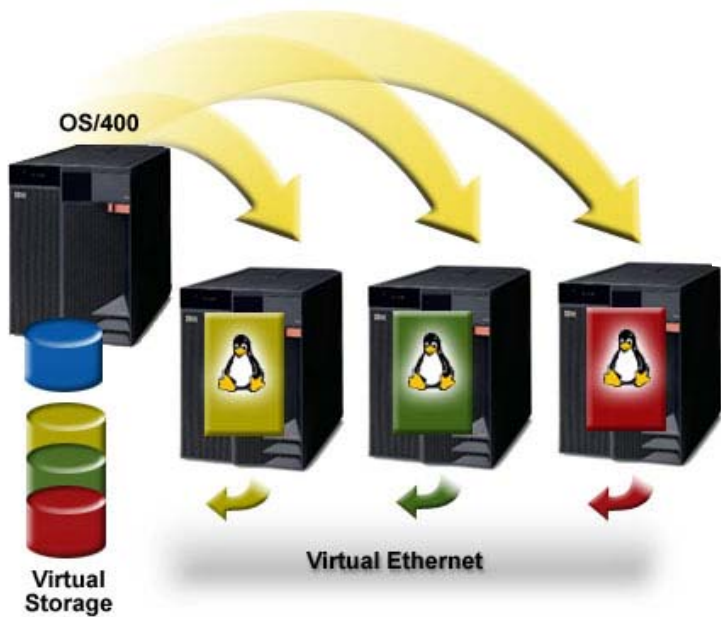
Award winning 64 bit Linux with dynamic LPAR

Lower Windows administration costs

iSeries

xSeries

Virtual Storage

HSL

Virtual Ethernet

Integrated xSeries Adapter

Integrated xSeries Server
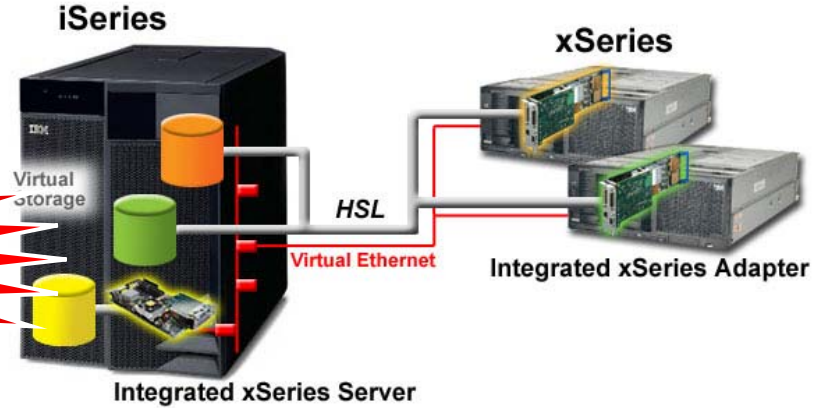
Hosted Utility Services and ASPs

- IGS Virtual Server Services

  IBM can rapidly provision and dynamically adjust a virtual server to meet the requirements of an on demand business

- Application Service Providers

  Over 200 ASPs on iSeries, hosting over 2000 customers

Customer A   Customer A   Customer B   Customer C

Production   Development and Test   Business Continuity Services   Application Service
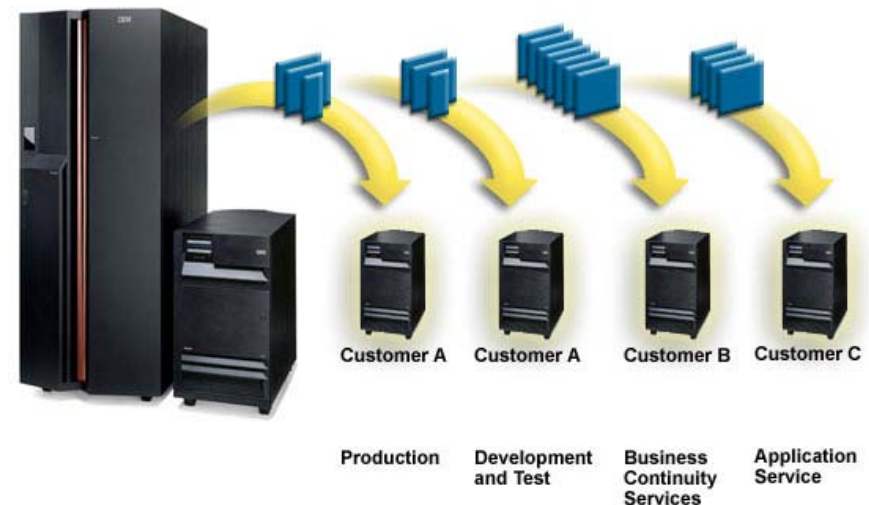
The Customer Challenge: Solving the Cost³ Equation

3) **Cost of Technology Transition …**

Long term application & platform investment costs
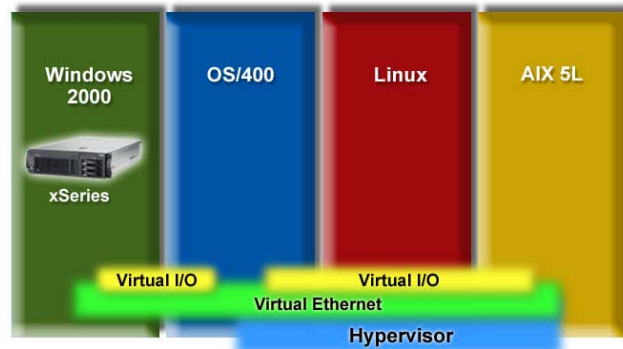
… Convergence Strategy

eServer On Demand Management Environment
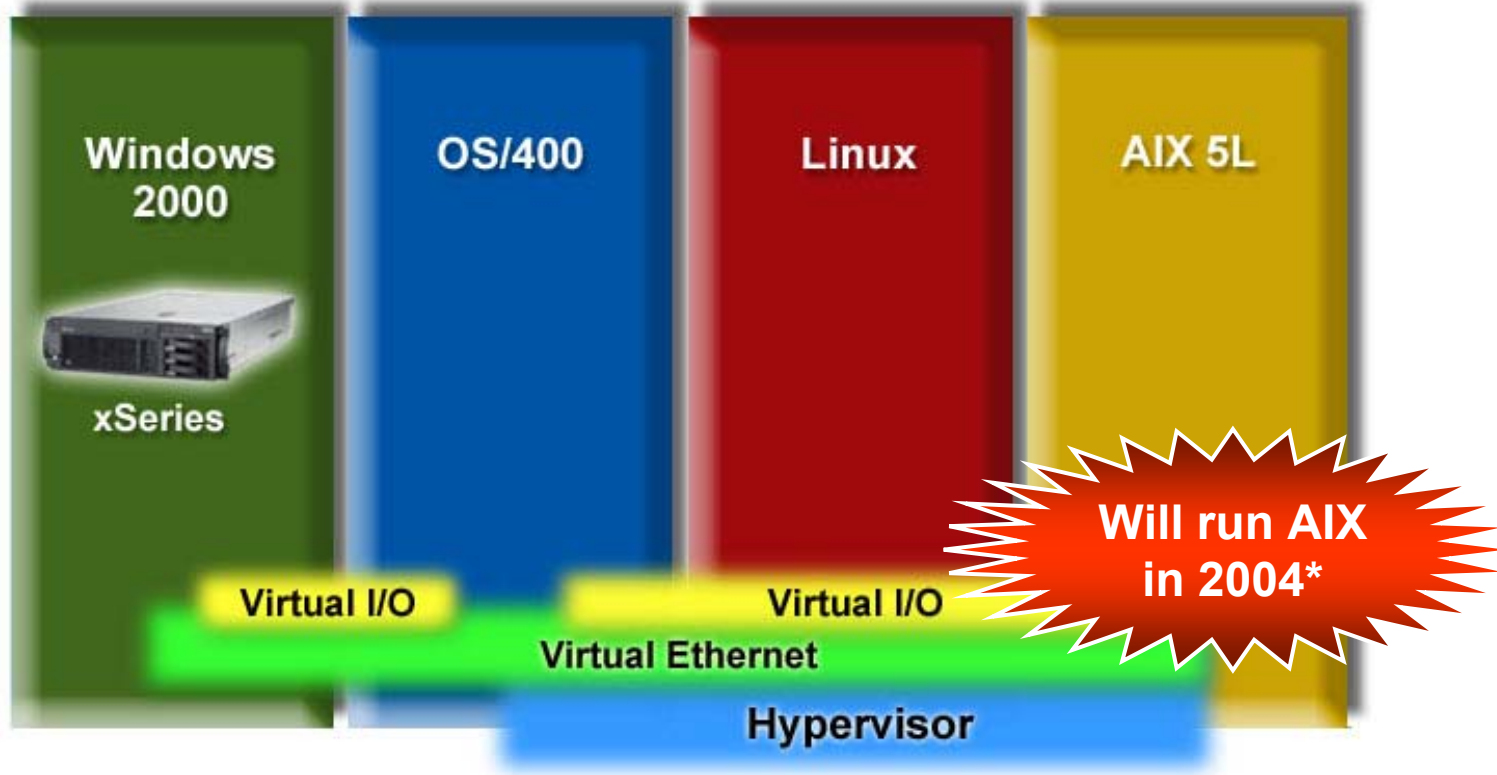
*Statement of Direction: IBM plans to support AIX in a logical partition in the future.

This presentation contains information about IBM's plans and directions. Such plans are subject to change without notice.

The next generation iSeries…simplicity in an on demand world

The next generation iSeries...

…simplicity in an on demand world

Appendix

i890 and i870

i890

i870

	i870 8/16 way	i890 16/24 way	i890 24/32 way
CPW max	20000	29300	37400
On / Off CUoD	Temporary and Permanent		
WebSphere	Included with Enterprise Edition Choice of WebSphere - Express or WAS V5.0		
Windows	1.6 Ghz Integrated xSeries Server with Enterprise Edition		
IXS / IXA Max	Up to 48 IXS / 60 IXA		
Linux LPAR	Up to 31 partitions, 10 per processor		
OS/400 LPAR	Up to 32 partitions, 10 per processor		
Processors	1.3 GHz POWER4 with L2/L3 cache		
Disk max	144 TB		
Memory max	128GB	192GB	256GB
OS/400 - Software Tier	V5R2 P40	V5R2 P50	V5R2 P50

The next generation iSeries…simplicity in an on demand world
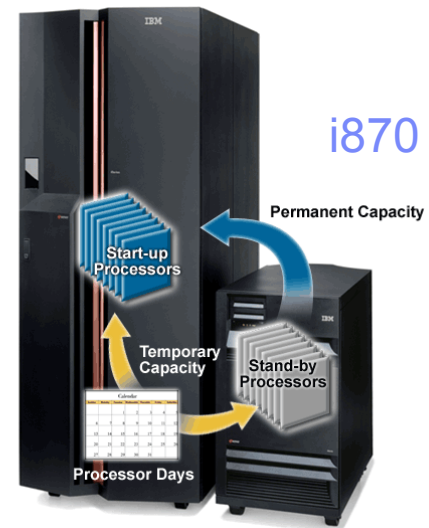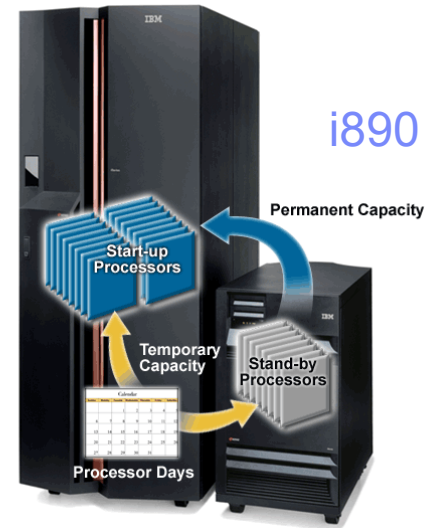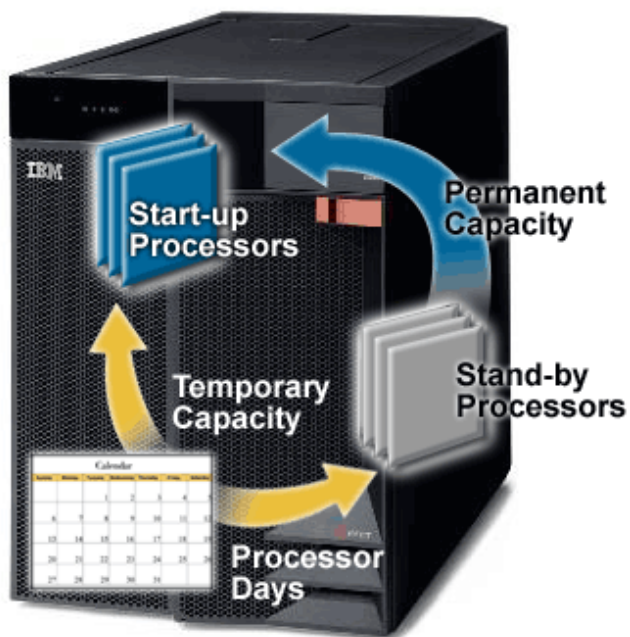
i825

	i825 3/6 way
CPW	Up to 3,500 – 6,600
On / Off CUoD	Temporary & Permanent
WebSphere	Included with Enterprise Edition Choice of WebSphere - Express or WAS V5.0
Windows Integration IXS / IXA Max	Up to 36 IXS – 18 IXA
Linux LPAR	31 (10 per processor)
OS/400 LPAR	32 (10 per processor)
Processors	3-6 way POWER4 1.3 GHz
Disk max	Up to 58 TB (18 I/O Towers)
Memory max	Up to 48 GB
OS/400 - Software Tier	V5R2 P30

The next generation iSeries…simplicity in an on demand world

i810

	i810 #2466 1way	i810 #2467 1 way	i810 #2469 2 way
CPW	1020	1470	2700
CUoD	Not applicable		
WebSphere -Express	Included with Enterprise Edition		
Windows Integration	Up to a maximum of 13 IXS / 7 IXA		
Linux LPAR	Up to 19 partitions, 10 per processor		
OS/400 LPAR	Up to 8 partitions, 4 per processor		
Disk max	Up to 14 TB, 198 disk drives		
Memory max	Up to 16 GB		
OS/400 – Software Tier	V5R2 P10	V5R2 P10	V5R2 P20

The next generation iSeries…simplicity in an on demand world

iSeries 800

	iSeries 800 Value Edition	iSeries 800 Standard Edition	iSeries 800 Advanced Edition
Total CPW / 5250 CPW	300 / 25	300 / 35	950 / 50
WebSphere	Optional	Includes WebSphere – Express	
Windows Integration	Up to a maximum of 4 IXS / 3 IXA		
Linux LPAR	Up to 9 partitions per processor		
OS/400 LPAR	Up to 4 partitions per processor		
Disk max	Up to 4 TB, 63 disk drives		
Memory max	Up to 6 GB		
OS/400 – Software Tier	V5R2 P05	V5R2 P05	V5R2 P10

The next generation iSeries…simplicity in an on demand world

iSeries Editions and Software Tiers

i890	Standard	Enterprise
24-32 way	P50	P50
16-24 way	P50	P50

i870	Standard	Enterprise
8-16 way	P40	P40

i825	Standard	Enterprise
3-6 way	P30	P30

i810	Standard	Enterprise
2700	P20	P20
1450	P10	P10
1020	P10	P10

iSeries 800

950/50	P10
300/25	P05

The next generation iSeries…simplicity in an on demand world

iSeries for Domino™

- Ideal for Domino server consolidation

- Extend Domino with additional Lotus software, WebSphere, Linux applications, and DB2 integration, all on a single server footprint

Lotus. software

i810

i825

iSeries for Domino	MCU*
i825 6-way	17,400
i825 4-way	11,600
i810 2-way	7,900
i810 1-way	4,200
i810 1-way	3,100

Note: * Mail and Calendar Users. Pre-GA estimates, for final numbers see performance capabilities reference guide

The next generation iSeries…simplicity in an on demand world

Trademarks and Disclaimers

400	ClusterProven	e business(logo)	IBM.COM	PowerPC	System/38
AIX	DataPropogator	e(logo) business	InfoPrint	PR/SM	ThinkPad
AIX/L (logo)	DB2	e-business (logo)	iSeries	pSeries	Tivoli
AIX 5L	DB2 Extenders	e-business Hosting	Magstar	Redbooks	VisualAge
Application System/400	DB2 OLAP Server	e-business on demand	MQSeries	SecureWay	WebSphere
AS/400	DB2 Universal Database	FlashCopy	Operating System/400	SmoothStart	X-Architecture
AS/400e	DRDA	IBM	OS/400	SQL/400	xSeries
Chipkill	e(logo)server	IBM (logo)	Parallel Sysplex	System/36	zSeries