



IBM eServer iSeries

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

IBM Executive Briefing Center  
Rochester, MN

# Agenda

**Announcement Highlights**

**e-business on demand™**

**The Customer Challenge: Solving the Cost<sup>3</sup> Equation**

# iSeries 2003 Announcement Highlights

iSeries	<ul style="list-style-type: none"><li>■ An on demand operating environment for e-business</li></ul>
New servers	<ul style="list-style-type: none"><li>■ New iSeries servers deliver up to 80% price performance<ul style="list-style-type: none"><li>— New Small to Medium Enterprise servers: i810 and iSeries 800</li></ul></li><li>■ New POWER4-based servers for medium to large enterprises<ul style="list-style-type: none"><li>— i825, i870, i890 (feature On / Off Capacity Upgrade on Demand)</li></ul></li><li>■ New high performance PCI-X I/O</li></ul>
New packaging	<ul style="list-style-type: none"><li>■ Options packages dramatically simplify product choice<ul style="list-style-type: none"><li>— Unrestricted interactive 5250 CPW with Enterprise Edition</li></ul></li><li>■ Designed for the exploitation of multiple e-business workloads</li><li>■ Enhanced integration with WebSphere®, Lotus®, Linux™ &amp; Windows™</li><li>■ Simplified software pricing tiers</li></ul>
New capabilities	<ul style="list-style-type: none"><li>■ On / Off Capacity Upgrade on Demand (temporary and permanent)</li><li>■ WebSphere Application Server - Express for iSeries</li><li>■ WebFaced applications run without interactive 5250 CPW</li></ul>
Availability	<ul style="list-style-type: none"><li>■ February 21, 2003</li></ul>

# e-business on demand

Announcement Highlights

## • e-business on demand

The Customer Challenge: Solving the Cost<sup>3</sup> Equation

# The next generation iSeries...

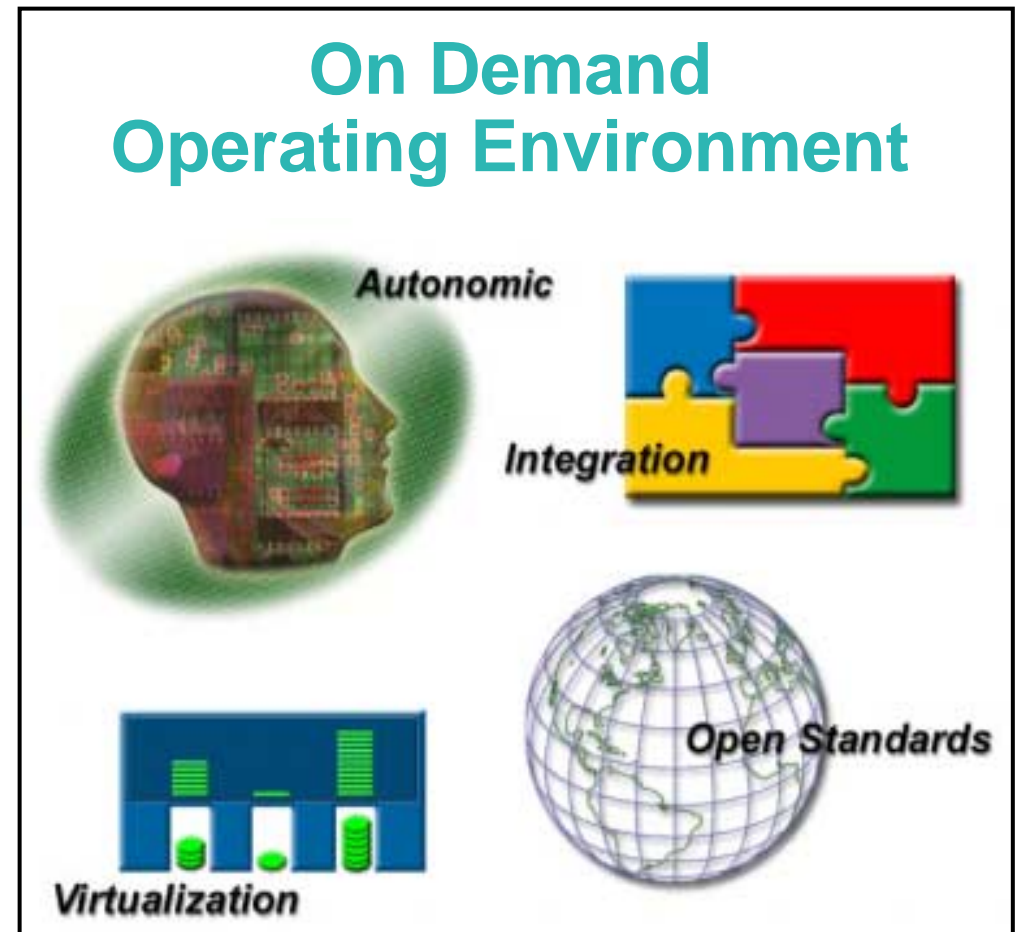
## ... simplicity in an on demand world

- **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

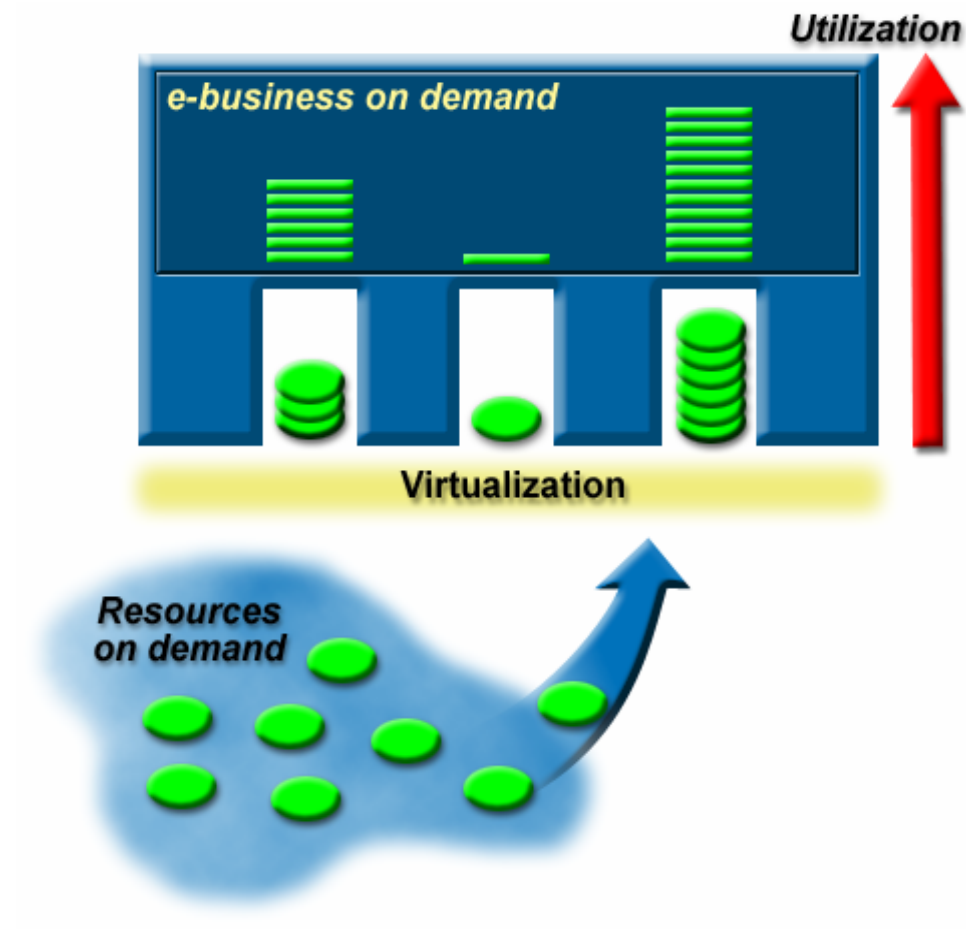


# Integration





# Virtualization

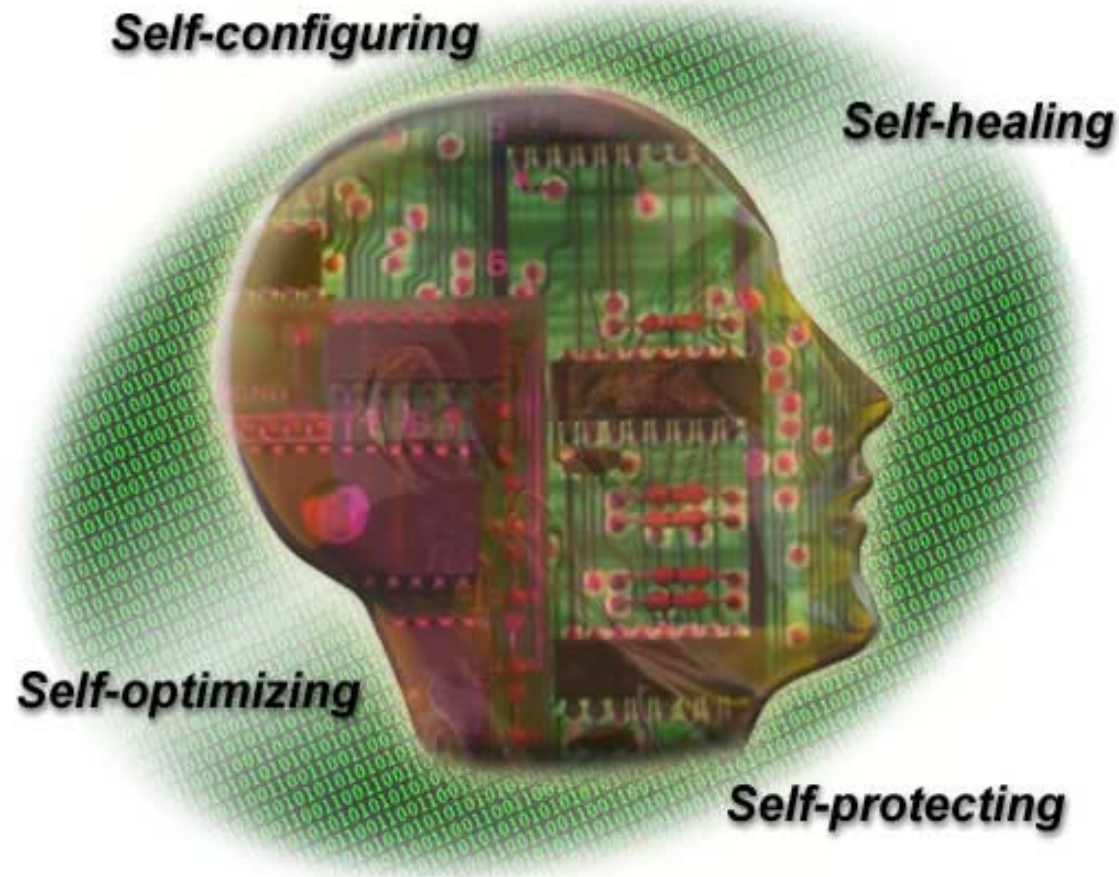


# Open Standards





# Autonomic Computing



# iSeries on demand computing environment

Announcement Highlights

e-business on demand

❖ **The Customer Challenge: Solving the Cost<sup>3</sup> Equation**

# The Customer Challenge: Solving the Cost<sup>3</sup> Equation

## 1) Cost of Acquisition ...

Upfront server, operating system and middleware price

## 2) Cost of Ongoing Operations ...

Ongoing cost of skills to deploy

## 3) Cost of Technology Transition ...

Long term application & platform investment costs

# 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

# Cost<sup>3</sup> and iSeries 2003 Announcements

## 1) **Cost of Acquisition ...**

- Delivering new servers
- Eliminating interactive features
- Reducing software costs

Announced January 20, 2003

Generally Available 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 Customer Challenge: Solving the Cost<sup>3</sup> Equation

## 1) Cost of Acquisition ...

Upfront server, operating system and middleware price



*... New Servers,  
New Packaging*



# IBM eServer iSeries – New, Simplified Product Line



Significantly simplified product line  
Enterprise Edition features maximum  
on demand capabilities

Low rate financing available from  
IBM Global Finance

# On demand – The Right Level for Your Business<sup>1</sup>

## ■ Enterprise

Includes maximum on demand capabilities



Multiple operating environments  
Web modernization (WebFacing)

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

## ■ Standard

Aggressively priced for e-business workloads



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: <sup>1</sup> Edition contents vary by model. Example shown here is for i870 or i890

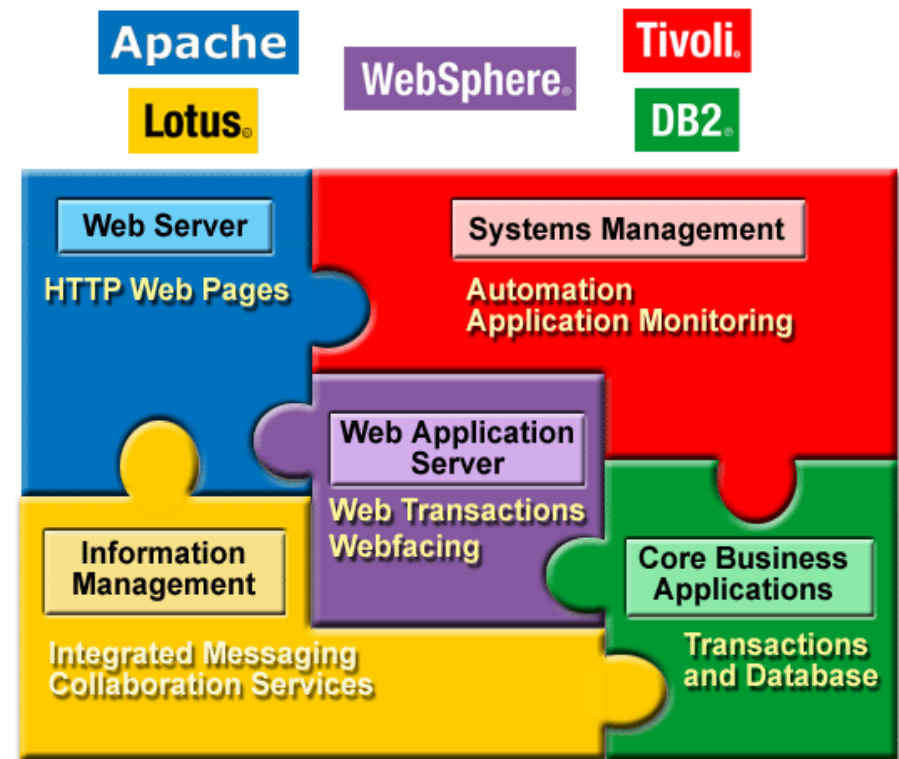
## Enterprise Edition Software Value (i825, i870, i890)

### ■ IBM e-business software

Choice of WebSphere Application Server  
Lotus Sametime  
Lotus QuickPlace  
DB2 Query Manager and SQL Toolkit  
DB2 SMP  
DataPropagator for iSeries  
DB2 Extenders -- XML and Text

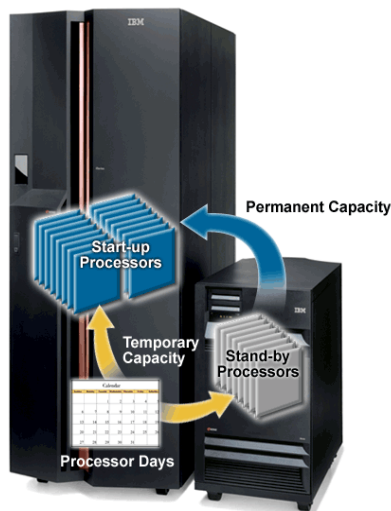
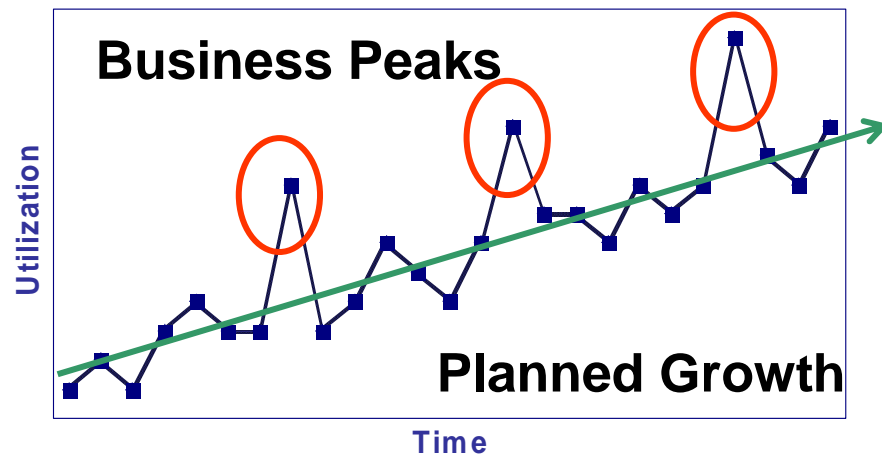
### ■ IBM Datacenter Management Tools

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.

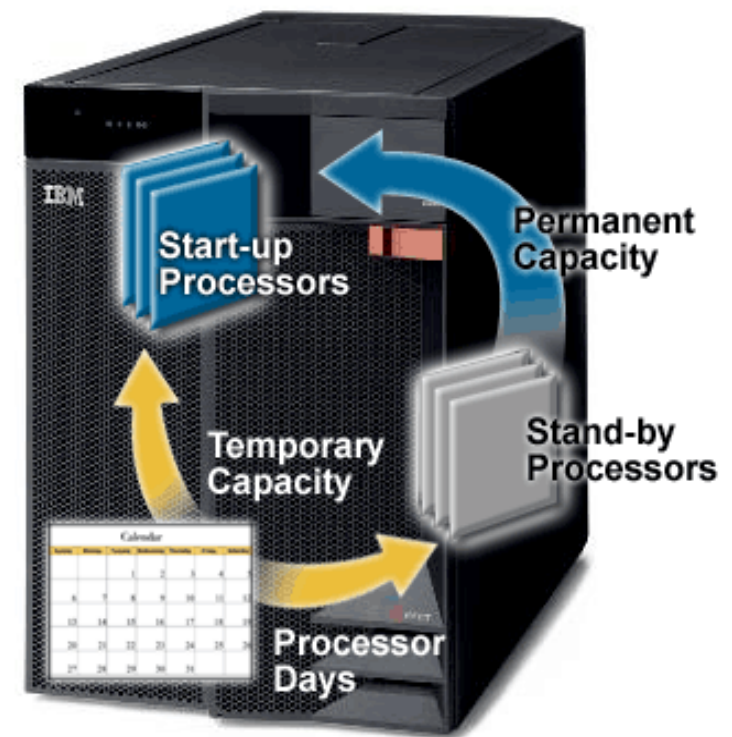
# On / Off Capacity Upgrade on Demand



- 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 VP 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



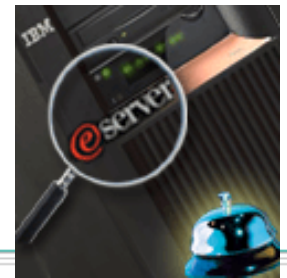
## New PCI-X Ultra RAID Disk Controllers

	Write-Cache (Max)	Min / Max drives per RAID set
High performance - 2757	757	3 / 18
Low cost alternative for SME servers - 2782	40	3 / 12



# Software Maintenance

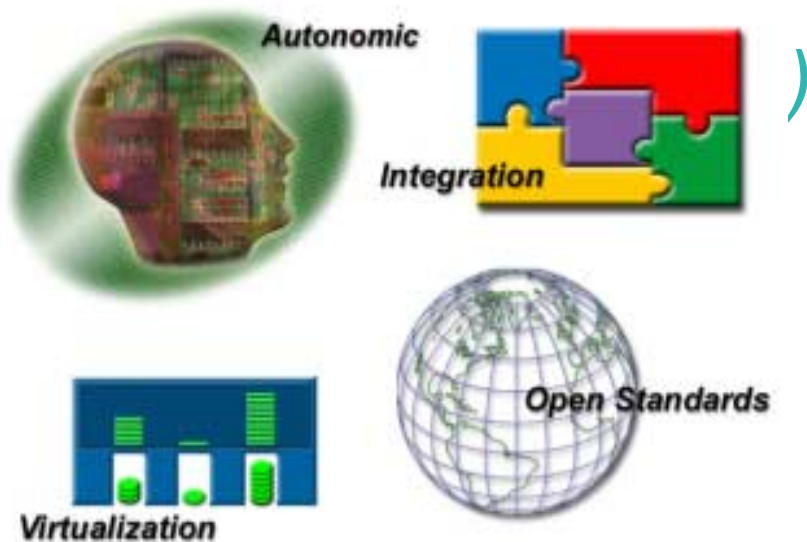
- Provide users timely access to proven solutions
- Improve IT productivity and deployment effectiveness
- Single, cost effective offering combining software upgrade entitlement and remote technical support
  - Access current and future releases
  - Voice and electronic support
  - Defect and routine use assistance
- One year contract sold with new iSeries servers or new sales

A screenshot of the IBM Software Support website. The header features a person working on a laptop and the text 'Welcome to IBM Software Support'. Below this is a 'Support search' section with a search bar containing the placeholder 'Enter a word or phrase', a 'Go' button, and links for 'Search downloads', 'Search APARs', and 'Advanced Search'. A 'Browse product support' section follows, with 'By name' linked to 'Products A-Z' and 'By category' with a dropdown menu labeled '-- Choose a product category --' and a 'Go' button.

# The Customer Challenge: Solving the Cost<sup>3</sup> Equation

## 2) Cost of Ongoing Operations ...

Ongoing cost of skills to deploy and manage solutions



*... iSeries' on demand operating environment*

# WebSphere - Express for iSeries



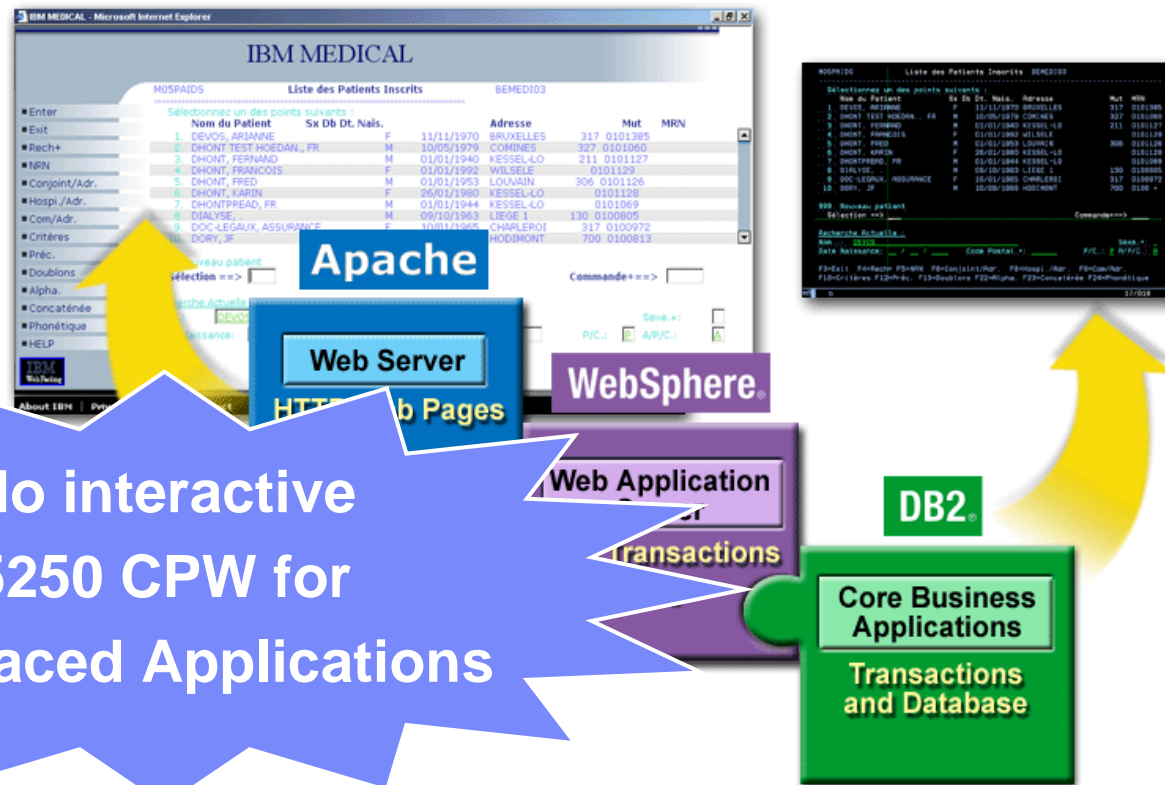
**Includes Telephone  
Directory & wizards  
exclusive to iSeries**

*"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

# WebFacing & WebSphere Development Studio Client



*"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



# iSeries Access for Web



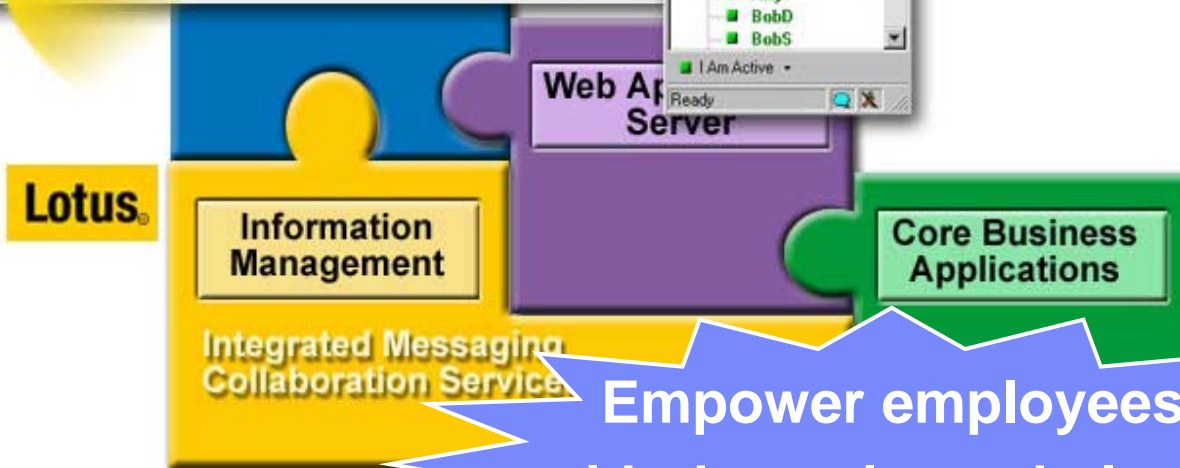
- Simple, browser-based access to iSeries and Web applications
- Easy to configure, deploy and customize with central administration
- No complex browser JVM setup and 'no-touch' client footprint

# 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.”*

George Suda  
VP Information Systems  
Apria Healthcare

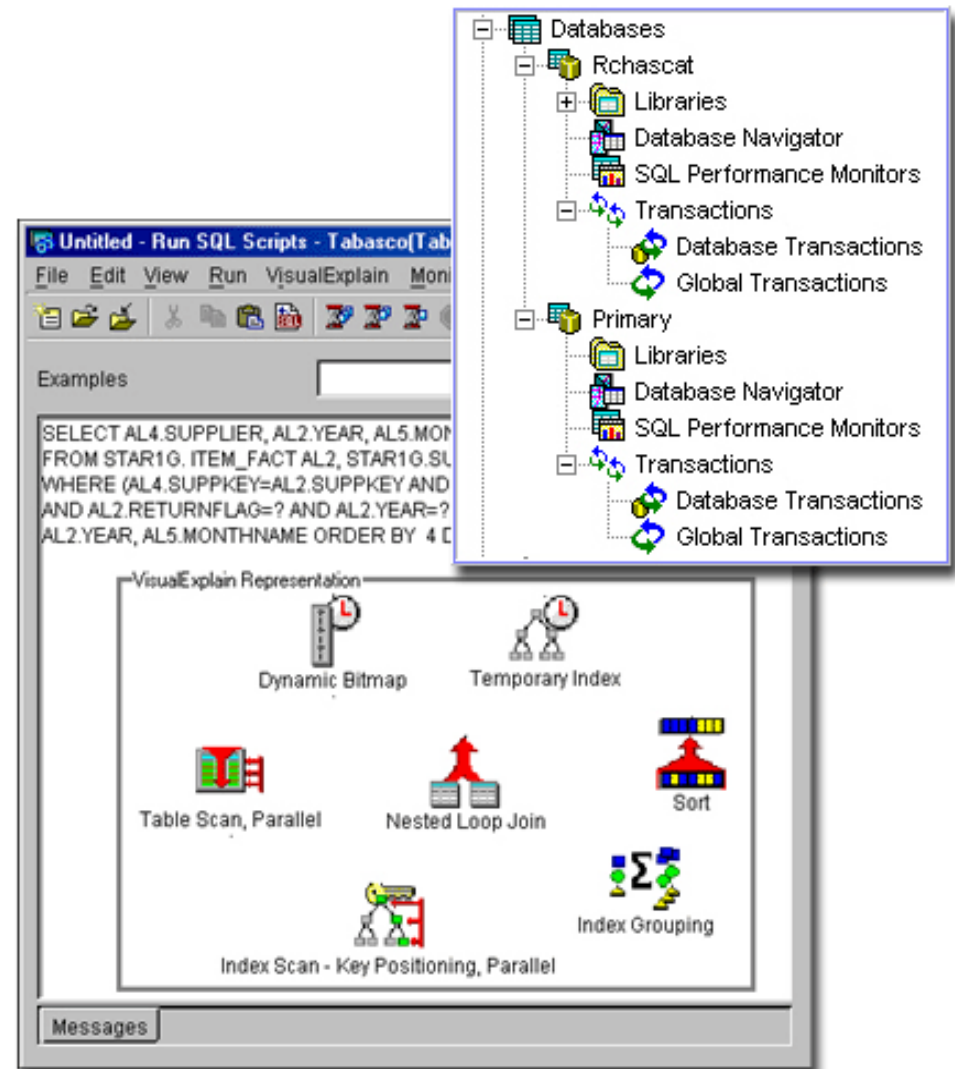


**Empower employees  
with dynamic workplaces**



## 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

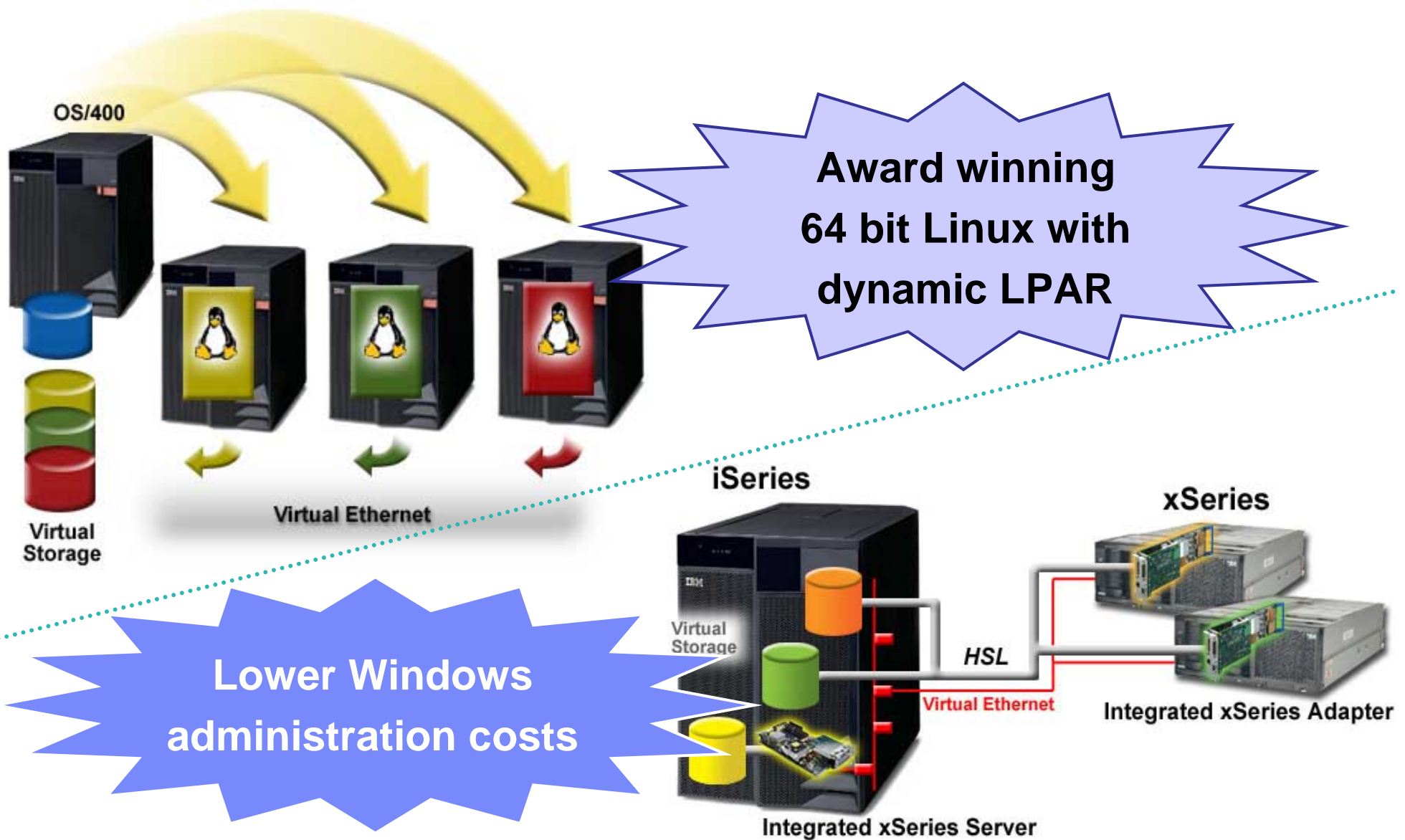


# IBM Tivoli® Storage Manager Enterprise Edition



- Delivers integrated data protection for client backup and archive
- Centralized management, comprehensive policy based automation
- Complements BRMS (Backup Recovery and Media Services) for iSeries

# Server Consolidation with Linux and Windows



# 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



# The Customer Challenge: Solving the Cost<sup>3</sup> Equation

## 3) Cost of Technology Transition ...

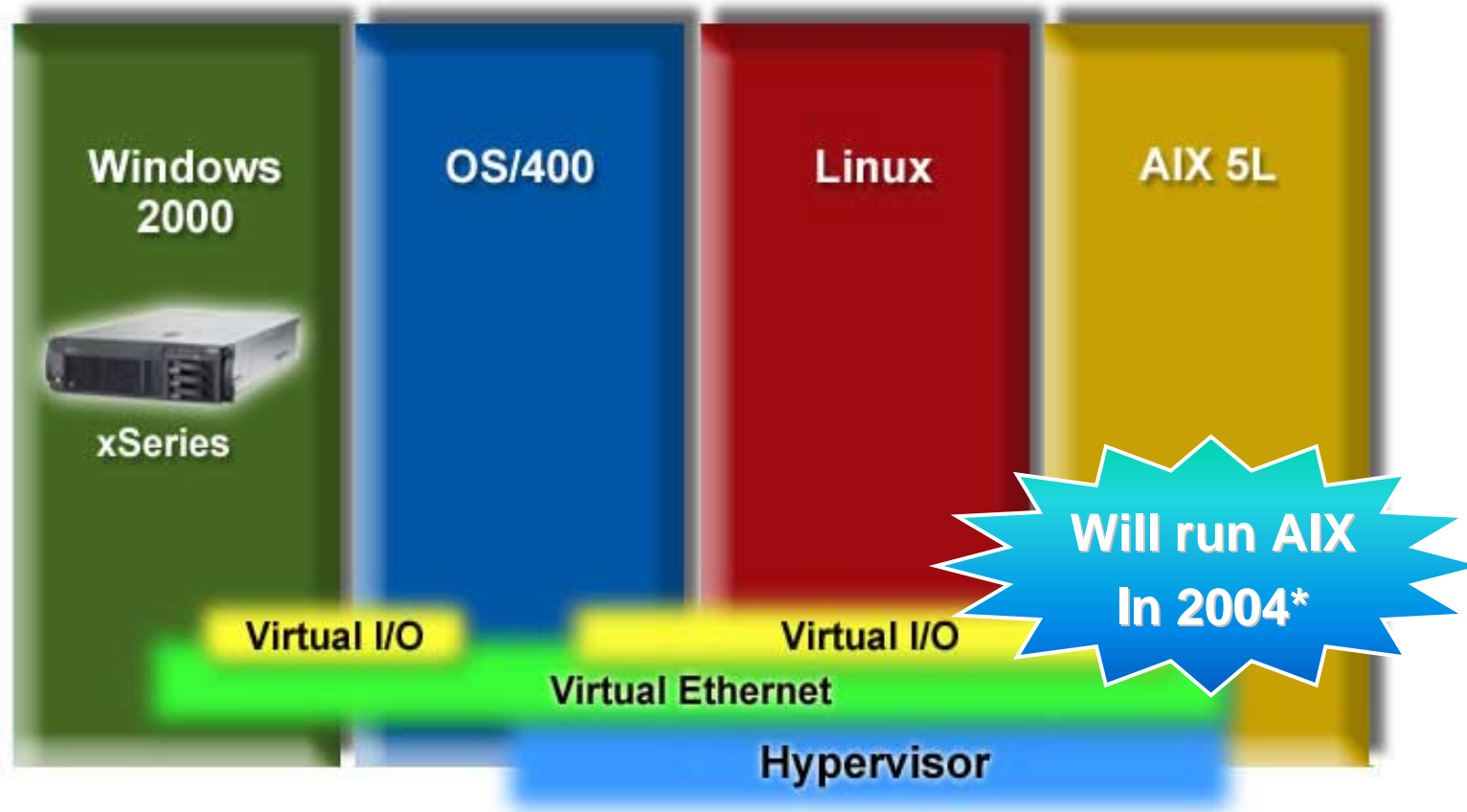
Long term application & platform investment costs



... *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



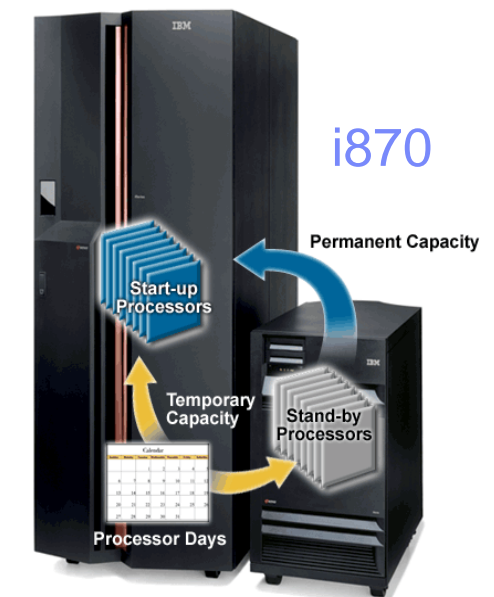
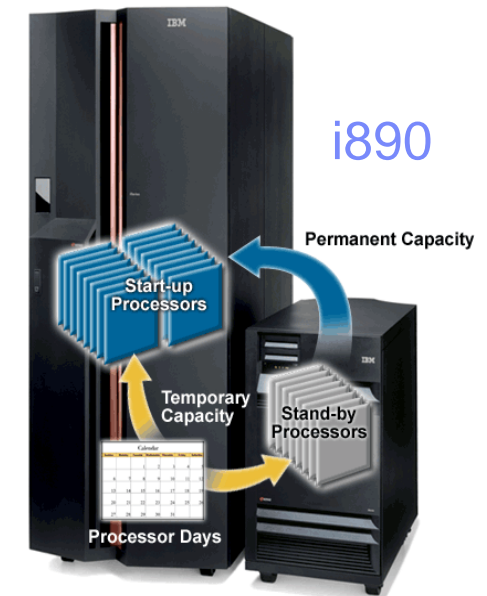
IBM eServer iSeries

# Appendix

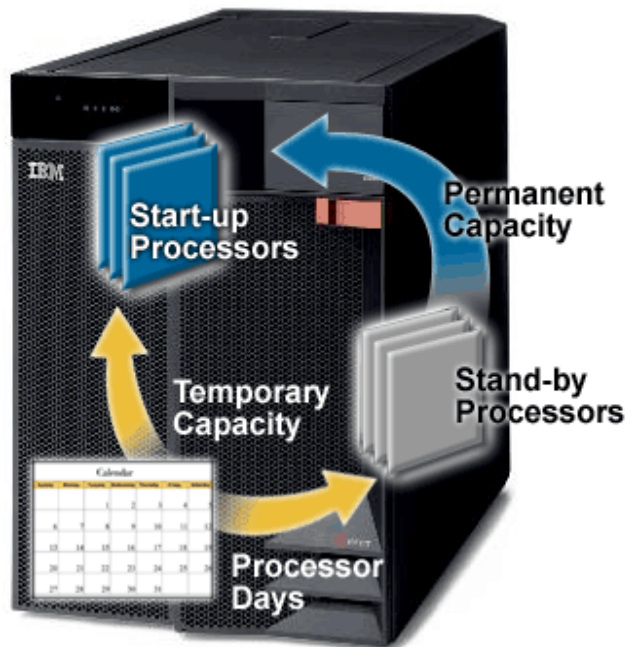


# i890 and i870

	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 V5		
Windows	1.6 GHz Integrated xSeries Server with Enterprise Edition		
IXS / IXA	Up to 48 IXS's and 60 IXA's		
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	128 GB	192 GB	256 GB
OS/400 Software Tier	V5R2 P40	V5R2 P50	V5R2 P50



## i825



	i825 3/6 way
CPW max	3500 – 6600
On / Off CUoD	Temporary & Permanent
WebSphere	Included with Enterprise Edition Choice of WebSphere – Express or V5
Windows Integration	Up to 36 IXS's and 18 IXA's
Linux LPAR	Up to 31 partitions – 10 per processor
OS/400 LPAR	Up to 32 partitions – 10 per processor
Processors	1.1 GHz POWER4 with L2/L3 cache
Disk max	58 TB (18 I/O Towers)
Memory max	48 GB
OS/400 Software Tier	V5R2 P30

## i810



	i810 #2466 1 way	i810 #2467 1 way	i810 #2469 2 way
CPW max	1020	1470	2700
CUoD	Not applicable		
WebSphere - Express	Included with Enterprise Edition		
Windows Integration	Up to 13 IXS's and 7 IXA's		
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 drives		
Memory max	Up to 16 GB		
OS/400 Software Tier	V5R2 P10	V5R2 P10	V5R2 P20



## 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 4 IXS's and 3 IXA's		
Linux LPAR	Up to 9 partitions per processor		
OS/400 LPAR	Up to 4 partitions per processor		
Disk max	Up to 4 TB, 63 drives		
Memory max	Up to 6 GB		
OS/400 Software Tier	V5R2 P05	V5R2 P05	V5R2 P10



# iSeries Editions and Software Tiers

<b>i890</b>	<b>Standard</b>	<b>Enterprise</b>
24-32 way	<b>P50</b>	<b>P50</b>
16-24 way	<b>P50</b>	<b>P50</b>
<b>i870</b>	<b>Standard</b>	<b>Enterprise</b>
8-16 way	<b>P40</b>	<b>P40</b>
<b>i825</b>	<b>Standard</b>	<b>Enterprise</b>
3-6 way	<b>P30</b>	<b>P30</b>
<b>i810</b>	<b>Standard</b>	<b>Enterprise</b>
2700	<b>P20</b>	<b>P20</b>
1450	<b>P10</b>	<b>P10</b>
1020	<b>P10</b>	<b>P10</b>
<b>iSeries 800</b>		
950/50	<b>P10</b>	
300/25	<b>P05</b>	

## 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

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

**Lotus®** software



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

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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
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