



# iSeries. mySeries.



## Introducing IBM eServer® i5 & i5/OS™

Announcement Overview  
and Trends & Directions for the iSeries

St. Louis, MO

Sept 9<sup>th</sup>, 2004

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## IBM eServer i5 and i5/OS V5R3 - Highlights

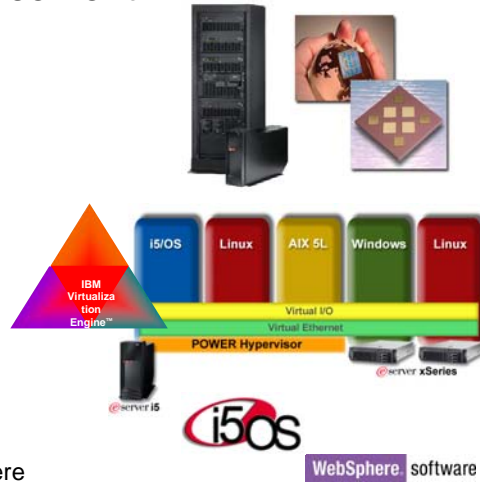
<b>IBM eServer i5</b>	<ul style="list-style-type: none"><li>♦ The next generation of iSeries™ servers</li><li>♦ First POWER5™ processor-based servers in industry</li></ul>
<b>IBM i5/OS V5R3</b>	<ul style="list-style-type: none"><li>♦ The next generation of OS/400®</li><li>♦ Builds on and extends the capabilities of OS/400 V5R2</li></ul>
<b>Simplify Your Infrastructure</b>	<ul style="list-style-type: none"><li>♦ Run i5/OS, Linux, AIX 5L™ and Windows® Server in a single server</li><li>♦ Share resources, maximize utilization with IBM Virtualization Engine™</li><li>♦ Manage infrastructure with IBM Director Multiplatform</li></ul>
<b>Integrate to Innovate</b>	<ul style="list-style-type: none"><li>♦ Exploit i5/OS integration with IBM software</li><li>♦ Personalize application access with WebSphere® Portal</li><li>♦ Foster interaction and collaboration with Lotus® Workplace</li></ul>
<b>Deliver Without Disruption</b>	<ul style="list-style-type: none"><li>♦ Extend Capacity on Demand leadership with Memory &amp; Reserve CoD</li><li>♦ Strive for continuous operations with fault tolerant technologies</li><li>♦ Deliver robust, open database solutions with IBM DB2® UDB</li></ul>

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## IBM eServer i5 Announcement

- Delivering the industry first POWER5 based servers
- Exploiting a common eServer platform with pSeries™
- Realigning price with value via the new economic model
- Completing the vision of an on demand operating environment
- Introducing the first implementation of the IBM Virtualization Engine
- Extending the value of open integration with i5/OS and WebSphere



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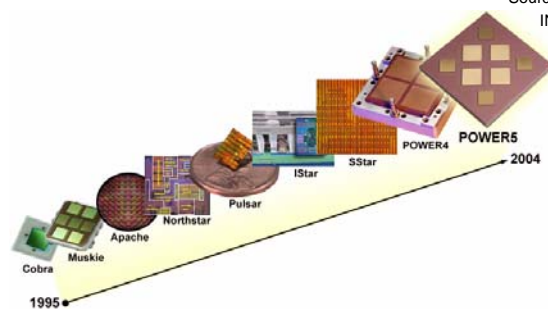
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## Power Architecture™ and POWER5

*The POWER5 design should boost individual processor performance and aggregate system bandwidth in a way that Intel will not be able to match until the Montecito and Tanglewood processors appear. POWER5 should provide IBM with an edge during 2004 and 2005.*

Source: POWER5 Tops on Bandwidth, Kevin Krewell  
IN-STAT/MDR Microprocessor Report, Dec 2003



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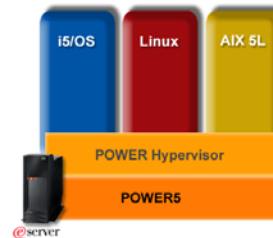


## Common eServer Platform

<b>IBM eServer pSeries</b>	<b>Make no compromises, accept no limits in an on demand world</b> Feature innovative and affordable POWER systems to serve the multiple workloads of the UNIX and Linux marketplace
<b>IBM eServer i5</b>	<b>Simplicity in an on demand world</b> Feature fully integrated solutions including IBM middleware with maximum flexibility in operating system choice

### IBM eServer POWER5 Common Platform

POWER5 servers are the industry's most powerful and flexible 64-bit servers, running multiple operating environments simultaneously and dynamically adjusting to changing requirements. Exactly what you need to simplify IT infrastructure, drive down costs and drive up productivity in today's on demand world.



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## Positioning eServer i5 and eServer p5



<b>IBM eServer i5</b> <b>Simplicity in an on demand world</b>	Feature fully integrated solutions including IBM middleware with maximum flexibility in operating system choice
<b>IBM eServer p5</b> <b>Make no compromises. Accept no limitations.</b>	Feature innovative and affordable POWER™ systems to serve the multiple workloads of the UNIX and Linux marketplace

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## New Economic Model Realigns Price with Value

- Common price for common hardware
  - Same price as Unix servers for memory, disk, etc
  - Up to 80% price reduction on memory, 30% on disk
- Capture value of i5/OS and IBM middleware with Editions
  - Average of 40% price/performance improvements on Editions
- Attractive new entry prices target new customer growth
  - Rich configurations of 520 Express Edition starting at \$11,500
- Price actions on existing iSeries products provide attractive alternatives for customers that require V5R2



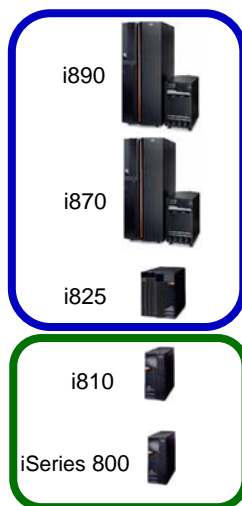
\*US prices, subject to change  
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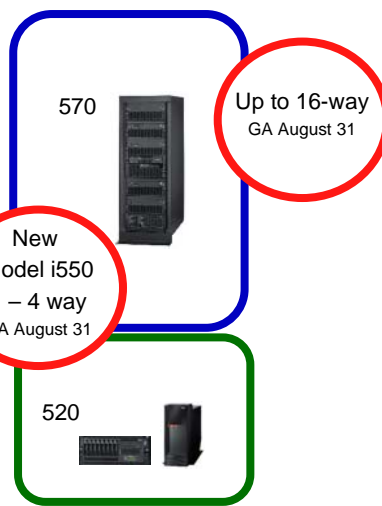


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### iSeries servers



### eServer i5 servers



Medium to Large Enterprises



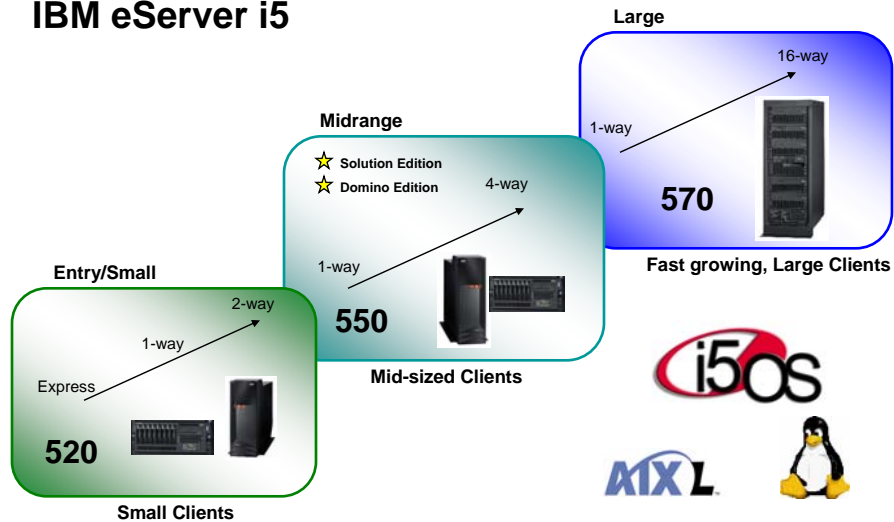
Small to Medium Enterprises

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## IBM eServer i5



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## Model 520



Desktop



Rack mount

- 1-way or 2-way
- 500 to 6000 CPW
- Max 32GB memory
- Max 19TB disk
- Editions: Express, Value, Standard/Enterprise, HA

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## Comparing Model 520 to Model 800



520



800

	800	800	520	520
Processor	540 MHz SStar	540 MHz SStar	1.5GHz POWER5	1.5 GHz POWER5
L2 cache	0	2 MB off chip	1.9 MB on chip	1.9 MB on chip
Processor CPW	300	950	500	1000
5250 OLTP CPW	25	50	30	60
Memory (Max)	8 GB	8GB	32 GB	32 GB
HSL Loops	1 HSL	1 HSL	1 HSL-2	1 HSL-2
I/O Towers (Max)	1	1	6	6
Disk (max in CEC)	6+12	6+12	4+4	4+4
Disk (Max)	4 TB	4 TB	19 TB	19 TB
IXS / IXA	4 / 3	4 / 3	18 / 8	18 / 8
Disk Drives (Max)	63	63	278	278
Rack Design	16 EIA	16 EIA	4 EIA	4 EIA
Software Tier	P05	P10	P05	P10
Upgrade Path	To 950/50	No	To 1000/60	No
LPAR (Max OS/400)	4	4	2	4
LPAR (Max OS/400 or i5/OS, AIX 5L, Linux)	10 (no AIX) max 4 OS/400	10 (no AIX) max 4 OS/400	2	4

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## Comparing Model 520 to Model 810 1-way

	810 1-way	810 1-way	810 1-way	520 1-way	520 1-way	520 1-way
Processor	540 MHz SStar	540 MHz SStar	750 MHz SStar	1.5GHz POWER5	1.5GHz POWER5	1.65GHz POWER5
L2 + L3 cache	2 + 0	2 + 0	4 + 0	1.9* + 0	1.9* + 0	1.9* + 36 MB
Processor CPW	750	1020	1470	1000	2400	3300
Memory (Max)	16 GB	16 GB	16 GB	32 GB	32 GB	32 GB
HSL Loops	1 HSL	1 HSL	1 HSL	1 HSL-2	1 HSL-2	1 HSL-2
I/O Towers (Max)	4	4	4	6	6	6
Disk (max in CEC)	6+12	6+12	6+12	4+4	4+4	4+4
Disk Drives (Max)	198	198	198	278	278	278
Disk (Max)	14 TB	14 TB	14 TB	19 TB	19 TB	19 TB
IXS / IXA	13 / 7	13 / 7	13 / 7	18 / 8	18 / 8	18 / 8
Rack Design	16 EIA	16 EIA	16 EIA	4 EIA	4 EIA	4 EIA
Software Tier	P10	P10	P10	P10	P10	P20
Upgrade Path	To 810 or 520	To 810 or 520	To 810 or 520	To 520	To 520	To 520
LPAR (Max OS/400 or i5/OS, AIX 5L, Linux)	10 (no AIX) max 4 OS/400	10 (no AIX) max 4 OS/400	10 (no AIX) max 4 OS/400	4	10	10

\* L2 cache on chip

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## Comparing Model 520 to Model 810 2-way



520



810

	810 2-way	520 1-way	520 2-way
Processor	750 MHz SStar	1.65GHz POWER5	1.65 GHz POWER5
L2 + L3 cache	2x4 + 0	1.9* + 36 MB	1.9* + 36 MB
Processor CPW	2700	3300	6000
Memory (Max)	16 GB	32 GB	32 GB
HSL Loops	1 HSL	1 HSL-2	1 HSL-2
I/O Towers (Max)	4	6	6
Disk (max in CEC)	6+12	4+4	4+4
Disk Drives (Max)	198	278	278
Disk (Max)	14 TB	19 TB	19 TB
IXS / IXA	13 / 7	18 / 8	18 / 8
Rack Design	16 EIA	4 EIA	4 EIA
Software Tier	P20	P20	P30
Upgrade Path	To POWER5	To 520	No
LPAR (Max OS/400 or i5/OS, AIX 5L, Linux)	20 (no AIX) max 8 OS/400	10	20

\* L2 cache on chip

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## eServer i5 520 Express Editions

- Five richly configured offerings at attractive prices
  - Available through selected channels
    - These configurations are easy to buy and are in stock at distributors
    - **Easy ordering/pricing with Express Edition feature codes**



### #1 = 500/30 CPW

1GB memory  
(2) 35GB disk drives  
30GB QIC tape  
DVD ROM  
Twinax  
P05 SWMA  
i5/OS (DB2 UDB, WAS Express)

List Price \$11.5K  
**Savings = > \$5K\*\***

### #2 = 500/30 CPW

1GB memory  
(2) 15k rpm 35GB disk  
30GB QIC tape  
DVD ROM  
Twinax  
P05 SWMA  
i5/OS (DB2 UDB, WAS Express)  
**DB2 Query Manager, Query/400**  
**iSeries Access, WDS**

List Price \$14.5K  
**Savings = \$10K\*\***

### #3 = 1000/60 CPW

**2GB** memory  
(2) 15k rpm 35GB disk  
30GB QIC tape  
DVD ROM  
Twinax  
**P10 SWMA**  
i5/OS (DB2 UDB, WAS Express)  
**DB2 Query Manager, Query/400**  
**iSeries Access, WDS**

List Price \$29.9K  
**Savings = \$18K\*\***

\*\* Compared to a comparably configured build to order 520

### #4 = #2 Plus RAID

**add 2 drives & \$709**  
List Price \$20.2K  
**Savings = \$10K\*\***

### #5 = #3 Plus RAID

**add 2 drives & \$709**  
List Price \$35.6K  
**Savings = \$18K\*\***

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## Introducing the IBM eServer i5 550



Deskside

- 1/4-way server
- 1 license of i5/OS
- Similar capability to i5 570 2/4-way
- Multiple Editions – Standard, Enterprise, Solution, Domino

- Flexible on demand pricing in a midrange server
- Exceptional flexibility for consolidating servers and applications
- Supports up to 40 partitions
- Lower priced, 4-way capable server



Rack mount

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## IBM eServer i5 550

- Configuration options
  - Desk side or rack mount
  - 1/4-way 1.65 GHz POWER5 processor
- Flexible on demand pricing
  - 1 license i5/OS
  - 3 processors available for growth/consolidation
  - Choice to deploy i5/OS, AIX 5L, Linux
- Growth options
  - Starts at 3,300 CPW, up to 12,000 CPW
  - Up to 64 GB memory
  - Up to 38 TB disk storage
- Features Standard, Enterprise, Solution and Domino Editions
  - Second processor activation included on all editions

Rack mount



Desk side



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## Announcing the IBM eServer i5 Solution Edition

- **Helps increase application choice and flexibility** through –
  - Support for multiple operating systems – i5/OS, AIX 5L, Linux and Windows (via IXA or IXS) – running simultaneously
- **Helps manage dynamic and unpredictable changes in business demand** through –
  - Capacity on Demand and IBM Virtualization Engine system technologies such as Micro-Partitioning™, POWER Hypervisor™, Virtual Ethernet ...
- **Can simplify IT infrastructure management** by providing –
  - Fully integrated DB2 UDB relational database, automated workload management, security, Web enablement ...
- **Solution Edition** includes
  - One i5/OS license (includes WebSphere Express & IBM Director Multiplatform)
  - Additional processor activation
  - One Enterprise Enablement feature (OLTP application support)
  - One Integrated xSeries Server
  - WebSphere Portal Express Plus (40 seats)
  - DB2 Query Mgr/SQL Dev Toolkit (1 license)
  - One Service Voucher for Linux, Windows Integration, AIX 5L or WebSphere



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## Participating ISVs

ISV	Description	Industries
Clear Technologies, Inc.	C2 CRM Application	Cross Industry
IBS	Enterprise Applications	Cross Industry
Integrated Distributed Solutions, LLC.	Enterprise Applications: Power Enterprise (ERP for Food Distribution)	Food Distribution
Intentia	Enterprise Applications	Cross Industry
Lawson®	Enterprise Applications for: Financials, HR, Procurement, Healthcare SCM, Distribution, Retail, and Service Process Optimization	Cross Industry
Manhattan Associates	SCM: Warehouse Management and Transportation Execution Solutions	Retail, Consumer Goods, CPG, High Tech, Government, Life Sciences, Industrial, Wholesale
MAPICS	Enterprise Applications	Industrial
PeopleSoft	Enterprise Applications	Cross Industry
SSA Global™	Enterprise Software Solutions	Cross Industry

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## IBM eServer i5 Domino Edition

- eServer i5 550 feature code #7530
  - 2 active processors and 2 i5/OS licenses
  - P20 software tier
  - No Enterprise Enablement feature
  - No additional software
  - 14,100 MCU rating for 2-way
- Priced below Standard Edition
  - Domino Edition is approximately 48% less for processor + 1 year SWMA
  - Domino Edition is approximately 42% less for processor + 3 years SWMA
- Requires proof of license:
  - 2 Domino® server licenses
  - 1500 Lotus® client licenses (Notes®, Sametime®, QuickPlace®)



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## Domino Edition Compare

Model	550 Domino P20	550 Standard P20	570 Standard P30
	1 / 4 way	1 / 4 way	2 / 4 way
Total Active Processors	2	2	2
Base i5/OS Licenses	2	1	1
Provide i5/OS CPW	6,350	6,350	6,350
Provide Domino MCU	14,100	14,100	14,100
CEC Price	\$56,000	\$74,000	\$82,000
Add'l i5/OS License	\$0	\$45,000	\$45,000
Processor Activation	\$0	\$0	\$0
Memory	\$5,050	\$5,050	\$9,640
3 Yr SWMA	\$30,375	\$30,375	\$69,095
<b>Total</b>	<b>\$91,425</b>	<b>\$154,425</b>	<b>\$205,735</b>
\$ / MCU	\$6.48	\$10.95	\$14.59

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## IBM eServer i5 model 570

Rack mount only

- Flexible configuration options
  - Rack mount featuring Capacity on Demand options
  - 1/2-way, 2/4-way POWER5 processor
- Highly scalable growth options
  - Starts at 3300 CPW, up to 11700 CPW
  - Up to 64 GB memory
  - Up to 39 TB disk storage
- Features Standard and Enterprise Edition options\*
- Upgrades from i810, i820, i825, i830 and i870 (5/8-way) into 570



\*HA, CBU are product previews - planned 2H04

\*HA Edition planned for 3Q'04 This presentation contains information about IBM's plans and directions. Such plans are subject to change without notice.  
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## Model 570 (May Announcement)

1/2-way or  
2/4-way



Rack mount only

- 1/2-way or 2/4-way
- 3,300 to 11,700\* CPW
- Capacity on Demand
- Max 64 GB memory
- Max 38 TB disk
- Editions: Standard/Enterprise

\* Restated as 12,000 CPW

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## Model 570 (July Announcement)



Rack mount only

- 1/2-way to 13/16-way
- 3,300 to 44,700 CPW
- Capacity on Demand
  - Plus memory, reserve, trial
- Max 512 GB memory
- Max 96 TB disk
- Editions: Standard/Enterprise, HA, CBU

## 570 – Building Blocks

Single block 1/2-w and 2/4-w announced May. Up to 4 blocks announced July



Block 1		1/2-way or 2/4-way
Block 2	+ 4	5/8-way
Block 3	+ 4	9/12-way
Block 4	+ 4	13/16-way

- Building block (enclosure) enables balanced upgradeability in 570
- Each additional enclosure adds memory and I/O capacities.



## Model 570 Specifications

	1/2-way	2/4-way	5/8-way	9/12-way	13/16-way	2/16-way
Processor (1-Way)	1.65GHz POWER5	1.65 GHz POWER5	1.65 GHz POWER5	1.65 GHz POWER5	1.65 GHz POWER5	1.65 GHz POWER5
L2+L3 cache	1.9+36	2*(1.9+36)	4*(1.9+36)	6*(1.9+36)	8*(1.9+36)	8*(1.9+36)
Processor CPW	3300-6000	6350-12000	15200-23500	25500-33400	36300-44700	6350-44700
Editions	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA	CBU
On demand	Expanded	Expanded	Expanded	Expanded	Expanded	Yes
Memory (min/Max)	2 / 64 GB	4 / 128 GB	8 / 256 GB	12 / 384 GB	16 / 512 GB	16 / 512 GB
HSL-2 Loops (Max)	1	2	4	6	8	8
I/O Towers	6	12	18	24	30	30
Disk (max in CEC)	6	6	12	18	24	24
Disk Drives (Max)	278	546	822	1098	1374	1374
Disk (Max)	19 TB	38 TB	58 TB	77 TB	96 TB	96 TB
IXS / IXA	18 / 8	36 / 16	48 / 32	48 / 48	48 / 60	48 / 60
Rack Design	4 EIA	4 EIA	8 EIA	12 EIA	16 EIA	16 EIA
Software Tier	P30	P30	P40	P40	P40	P30
Upgrade Path	Yes	Yes	Yes	Yes	Yes	Yes
LPAR (Max)**	10/20	20/40	50/80	90/120	120/160	20/160

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\*\* Max 64 i5/OS partitions

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## Comparing model 570 to model 825



570



825

	825 3/6-way	570 1/2-way	570 2/4-way	570 5/8-way
Processor	1.1 GHz POWER4	1.65GHz POWER5	1.65 GHz POWER5	1.65 GHz POWER5
L2+L3 cache	3*(1.4+32)	1.9+36	2*(1.9+36)	4*(1.9+36)
Processor CPW	★ 3600-6600	3300-6000	6350-12000	15200-25500
Editions	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA
On demand	Yes	Expanded	Expanded	Expanded
Memory (Max)	48 GB	64 GB	128 GB	256 GB
HSL-2 Loops	★ 3	1 (faster)	2 (faster)	4 (faster)
I/O Towers	18	6	12	18
Disk (max in CEC)	10+5	6	6	12
Disk Drives (Max)	825	278	546	822
Disk (Max)	58 TB	19 TB	39 TB	58 TB
IXS / IXA	36 / 18	18 / 8	36 / 16	48 / 32
Rack Design	16 EIA	4 EIA	4 EIA	8 EIA
Software Tier	P30	P30	P30	★ P40
Upgrade Path	Yes	Yes	Yes	Yes
LPAR (Max)	30/32 (no AIX)	10/20	20/40	50/80**

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\*\* Max 64 i5/OS partitions

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## Comparing model 570 to model 870



570



870 / 890

	870 5/8-w	870 8/16-w	570 2/4-way	5/8-way	9/12-way
Processor	1.3 GHz POWER4	1.3 GHz POWER4	1.65 GHz POWER5	1.65 GHz POWER5	1.65 GHz POWER5
L2+L3 cache	4*(1.4+32)	8*(1.4+32)	2*(1.9+36)	4*(1.9+36)	6*(1.9+36)
Processor CPW	7700-11500	11500-20000	6350-11700	15200-23500	25500-33400
Editions (not CBU)	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA
On demand	Yes	Yes	Expanded	Expanded	Expanded
Memory (Max)	64 GB	128 GB	128 GB	256 GB	384 GB
HSL-2 Loops	4	8	2 (faster)	4 (faster)	6 (faster)
I/O Towers	23	47	12	18	24
Disk (max in CEC)	15+30	15+30	6	12	18
Disk Drives (Max)	1080	2047	546	822	1098
Disk (Max)	76 TB	144 TB	39 TB	58 TB	77 TB
IXS / IXA	32 / 48	48 / 60	36 / 16	48 / 32	48 / 48
Rack Design	42+18 EIA	42+18 EIA	4 EIA	8 EIA	12 EIA
Software Tier	P40	P40	P30	P40	P40
Upgrade Path	Yes	Yes	Yes	Yes	Yes
LPAR (Max)	32 (no AIX)	32 (no AIX)	40	80**	120**

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\*\* Max 64 i5/OS partitions

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## Comparing model 570 to model 890



570



870 / 890

	890 16/24-w	890 24/32-w	5/8-way	9/12-way	13/16-way
Processor	1.3 GHz POWER4	1.3 GHz POWER4	1.65 GHz POWER5	1.65 GHz POWER5	1.65 GHz POWER5
L2+L3 cache	12*(1.4+32)	16*(1.4+32)	4*(1.9+36)	6*(1.9+36)	8*(1.9+36)
Processor CPW	20000-29300	29300-37400	15200-23500	25500-33400	36300-44700
Editions (not CBU)	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA	Std/Ent/HA
On demand	Yes	Yes	Expanded	Expanded	Expanded
Memory (Max)	192 GB	256 GB	256 GB	384 GB	512 GB
HSL-2 Loops	12	14	4 (faster)	6 (faster)	8 (faster)
I/O Towers	47	47	18	24	30
Disk (max in CEC)	15+30	15+30	12	18	24
Disk Drives (Max)	2047	2047	822	1098	1374
Disk (Max)	144 TB	144 TB	58 TB	77 TB	96 TB
IXS / IXA	48 / 60	48 / 60	48 / 32	48 / 48	48 / 60
Rack Design	42+18 EIA	42+18 EIA	8 EIA	12 EIA	16 EIA
Software Tier	P50	P50	P40	P40	P40
Upgrade Path	Yes	Yes	Yes	Yes	-
LPAR (Max)	32 (no AIX)	32 (no AIX)	80**	120**	160**

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\*\* Max 64 i5/OS partitions

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## eServer i5 520, 550 and 570 Editions

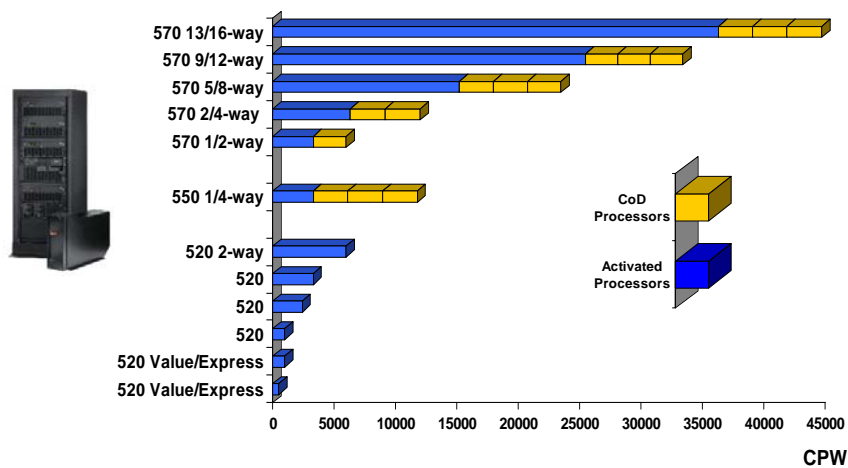
	Value	Express	Standard	Enterprise	<b>Solution</b>	<b>New!</b> <b>Domino</b>	High Availability	Capacity BackUp
520	X	X	X	X			X	
550			X	X	X	X		
570			X	X			X	X

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## IBM eServer i5 - Hardware

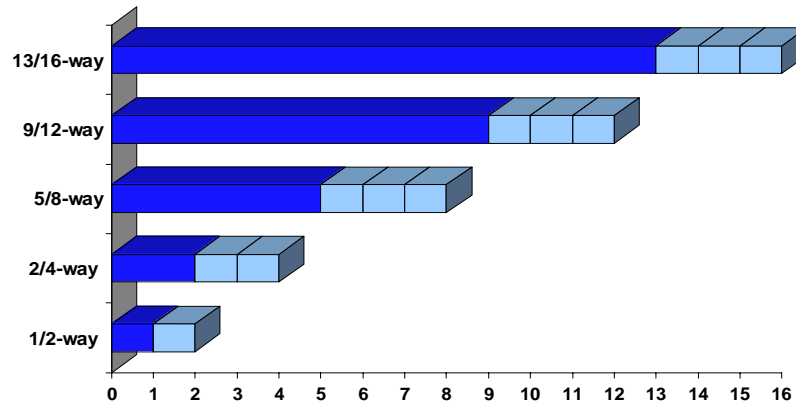


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## Model 570 Processor Activations

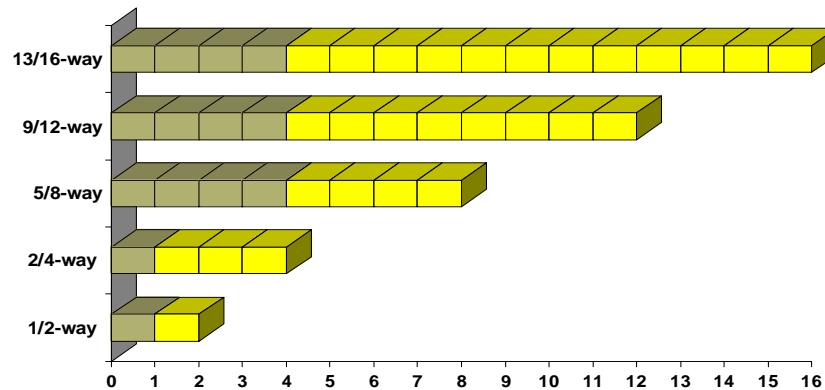


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## Model 570 i5/OS Licenses



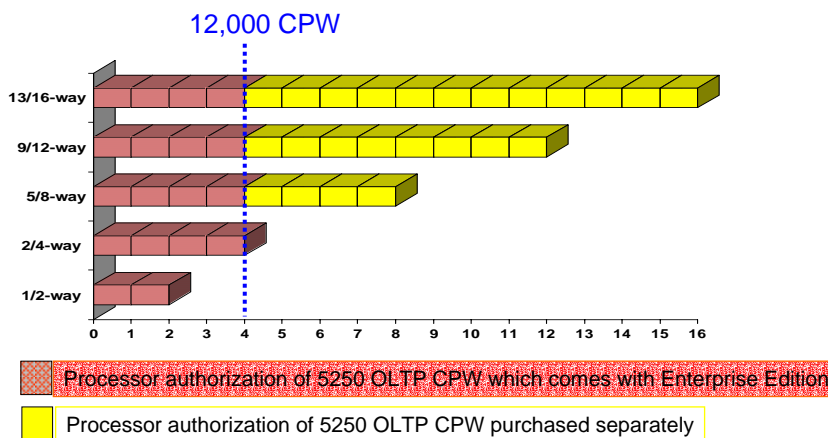
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## Model 570 Enterprise Edition 5250 OLTP



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## Comparing eServer i5 520, 550, 570

	520 Value, Express	520	550	570
N-way	1-way	1-way & 2-way	1/4-way	1/2-way, 2/4-way, 5/8-way, 9/12-way, 13/16-way (2/16-way CBU)
Processor CPW	500 - 1000	1000 - 6000	3300 - 12000	3300 - 44700
Edition	Value, Express	Std, Ent, HA	Std, Ent, Sol. Dom	Std, Ent, HA, CBU
POWER5 Processor	1.5 GHz	1.5 & 1.65GHz	1.65 GHz	1.65 GHz
Memory (Max)	32 GB	32 GB	64 GB	512 GB
CoD processors	No	No	Yes	Yes
CoD memory	No	No	No	Yes
HSL-2 Loops (Max)	1	1	2	8
I/O Towers/drawers (Max)	6	6	12	30
Disk Drives (Max)	278	278	548	1374
Disk (Max)	19 TB	19 TB	38 TB	96 TB
IXS / IXA (Max)	18 / 8	18 / 8	36 / 16	48 / 60
Software Tier	P05 - P10	P10 - P30 ***	P20	P30 - P40
Upgrade into model	No	Yes	Yes	Yes
Upgrade out of model	No	No	No	Not announced

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\*\*\* Watch THIS Space !!!!

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## Optimize IT Resources to Changing Business Needs



- Memory Capacity on Demand
  - 4/8GB memory & 1GB activation features
    - Capacity Upgrade on Demand (permanent) or On/Off Capacity on Demand
- Reserve Capacity on Demand
  - Purchase blocks of 30 processor days
  - No contracts or usage reporting required
  - Automatically used by server when utilization hits 100%
- Trial Capacity on Demand
  - 30 consecutive days at no charge
  - Opportunity to test proposed capacity
  - Inactive processors and memory enabled
  - One-time use ... reset after processor upgrade or processor activation
- Note: CoD processor activation and Edition prices have been rebalanced to be consistent with eServer p5 processor activation price

## HA and CBU Edition

- High Availability Edition for 520 and 570
  - Like HA Edition for 810, 825, 870 and 890
    - Lower priced edition with less content compared to Enterprise Edition
    - Only eligible sales situations can use this
  - Available for all 520 and 570 processor which have Enterprise Edition
  - See <http://www.ibm.com/servers/eserver/iseries/hardware/is4ha/>
- Capacity BackUp Edition for 570 ( 2/16-way )
  - Like CBU Edition for 890
    - Only 2 processors are ever permanently activated. In disaster, other processors can be used at no charge
    - No eligibility requirements
  - See <http://www.ibm.com/servers/eserver/iseries/hardware/is4cbu/>



## Model 570 CoD – July Additions

- Capacity on Demand resources
  - 4/8GB memory & 1GB activation features
    - Capacity Upgrade on Demand (permanent) or On/Off Capacity on Demand
- Capacity on Demand options
  - Reserve Capacity on Demand
    - Purchase blocks of 30 processor days in advance
    - No contracts or usage reporting required
    - Automatically used by server when utilization hits 100%
  - Trial Capacity on Demand
    - 30 consecutive days at no charge
    - Opportunity to test proposed capacity increase or use for test window
    - Inactive processors and memory released together
    - One-time use ... reset after processor upgrade or processor activation

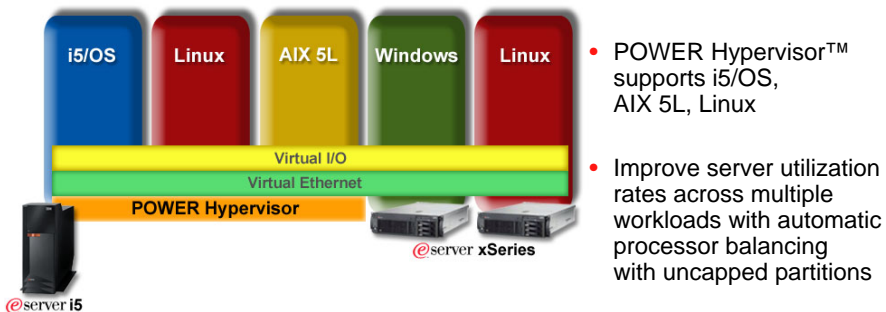
For more information: [www.ibm.com/servers/eserver/iseries/ondemand/cod](http://www.ibm.com/servers/eserver/iseries/ondemand/cod)

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## IBM eServer i5 On Demand Operating Environment



*"As well as consolidating physical servers, the iSeries provides an easy way to integrate multiple environments. iSeries is the ultimate server for integration, and it has delivered immediate and significant advantages."*

Jan van de Straat, Director of R&D  
Gemeente Harlem

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## Hardware Management Console (HMC)



- HMC is dedicated to console function
- Required on POWER5 servers to create/change partitions or to use Capacity on Demand
- Not required to operate the partition
- Saves the cost of typical primary partition

### July announcements:

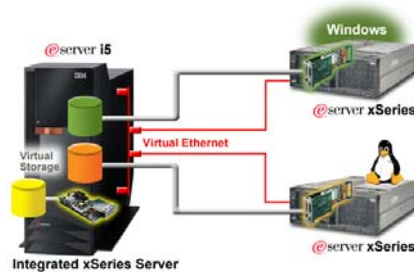
- Max 64 partitions per HMC across up to 16 servers
- Max two HMCs per server

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## Integrating Intel Based Infrastructure Servers



*"The superior manageability of this system helps us reduce costs and realize impressive return on investment. Everything—from daily management of the servers to new software installation—has been easy with the iSeries and xSeries environment."*

**Jim Horio**  
IT Director, Asian Art Museum

- Consolidate Intel® processor-based servers with the Integrated xSeries® Solutions
- New support for Linux on IXS/IXA

\* Product Preview. Planned availability 3Q 2004. This presentation contains information about IBM's plans and directions. Such plans are subject to change without notice.

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## Linux on Integrated xSeries Solutions

- **Linux enabled on Integrated xSeries Solutions**

- Red Hat Enterprise Linux 3 AS or ES supported on Xeon Integrated xSeries Servers (IXS) and Xeon xSeries attached via Integrated xSeries Adapter (IXA)
- SUSE LINUX Enterprise Server 8 supported on Xeon xSeries attached via Integrated xSeries Adapter (IXA)
- OS/400 V5R2 or i5/OS V5R3 PTF's required
  - See [www.ibm.com/eserver/iseries/integratedxseries/linux](http://www.ibm.com/eserver/iseries/integratedxseries/linux) for details

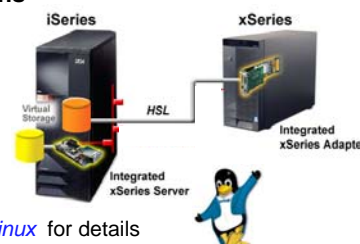
- **Deliver support for Intel-based Linux applications**

- Leverage iSeries virtual storage
- Share iSeries tape, CD, DVD
- Consolidate Windows & Linux backup
- Note: Virtual Ethernet is not enabled at this time

- **Provide a path to Linux on POWER**

- **General Availability**

- Starting August 31<sup>st</sup>
- See [www.ibm.com/eserver/iseries/integratedxseries/linux](http://www.ibm.com/eserver/iseries/integratedxseries/linux) for details



## AIX 5L and IBM eServer i5\*

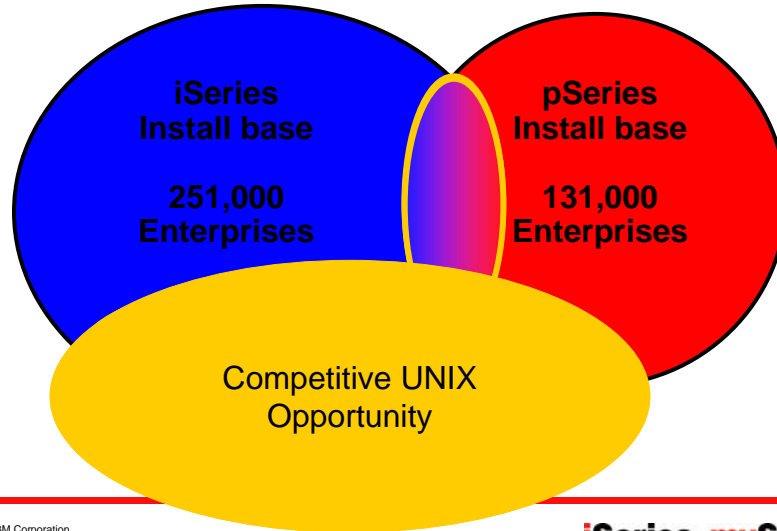
*"The IBM eServer i5 enables PeopleSoft customers to run our applications across multiple operating environments without adding complexity. Now customers can deploy AIX-based PeopleSoft Enterprise Advanced Supply Chain Planning to run co-resident, allowing customers to build on their existing skill base and infrastructure."*

**Les Wyatt, General Manager  
PeopleSoft EnterpriseOne**

- Consolidate and manage UNIX® solutions
- Run standard AIX 5L with native performance

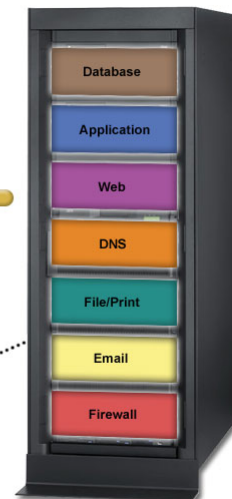
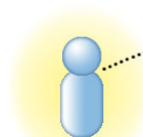


## The AIX 5L Opportunity on iSeries



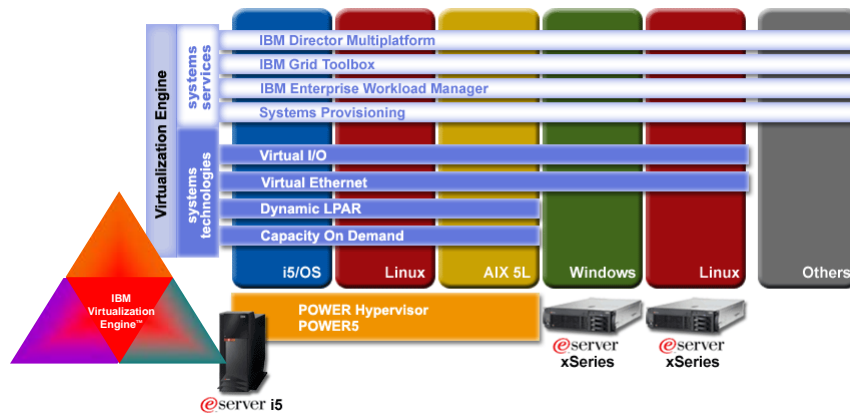
## The Value of Virtualization

- Reduce costs by increasing asset utilization
- Redeploy talent to manage your business, not your infrastructure
- Rapidly provision new servers
- Drive new levels of IT staff productivity
- Consolidate storage & backup
- Simplify server management and operations
- Communicate more securely with virtual Ethernet





## IBM Virtualization Engine and eServer i5



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**iSeries. mySeries.**



## i5/OS – The next generation of OS/400

- i5/OS V5R3 is an integrated operating system that builds on and extends the capabilities of OS/400 V5R2
- i5/OS V5R3 runs on IBM eServer i5 servers, IBM eServer iSeries servers and IBM AS/400® models 720, 730, 740, 170
- Highlights include:
  - Integration of WebSphere – Express for iSeries
  - Automated backup for i5/OS hosted Windows, Linux, AIX 5L and Domino servers
  - Concurrent I/O tower and IXA add/remove\*
  - Cross Site Mirroring (XSM) and DB2 UDB performance optimization
  - Output architecture compatibility enhancements
  - Rapid checkpoint save while active
  - Enabling real-time file system virus protection scanning tools



\* Planned availability 3Q 2004  
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**iSeries. mySeries.**



## Maximize Your iSeries Investments

- Upgrade servers from i810 and above
- Upgrade I/O towers
  - Support current HSL I/O towers\*
- Upgrade storage
  - All 10K & 15K rpm disks are supported on POWER5 processor-based servers
- Upgrade from OS/400 V5R2 and V5R1 to i5/OS



\* Except 5078 / 5075

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**iSeries. mySeries.**



### iSeries servers

i890



i870



i825



i810



iSeries 800



### eServer i5 servers

570



Up to 16-way  
GA August 31

New  
Model i550  
1 – 4 way  
GA August 31

Medium to Large  
Enterprises

**i5OS**

Small to Medium  
Enterprises

520

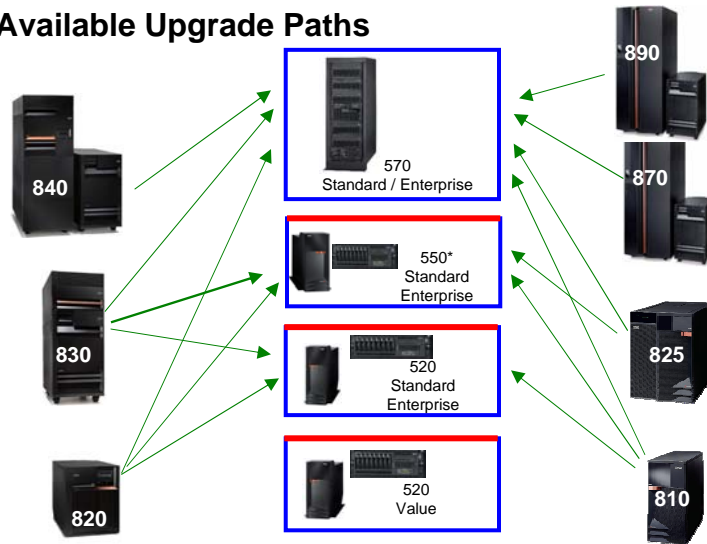


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## Available Upgrade Paths



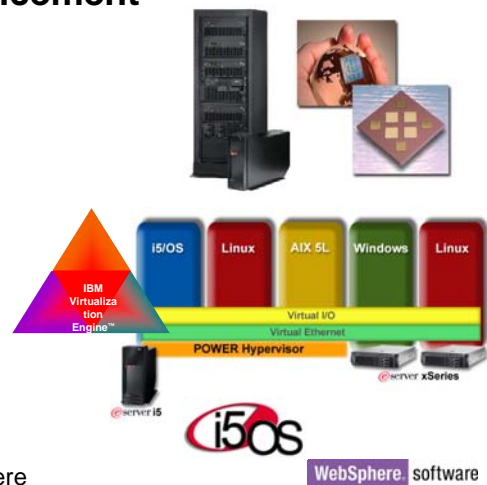
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\*Notes:  
• No upgrades into 550 Solution Edition or Domino Edition

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## IBM eServer i5 Announcement

- Delivering the industry first POWER5 based servers
- Exploiting a common eServer platform with pSeries
- Realigning price with value via the new economic model
- Completing the vision of an on demand operating environment
- Introducing the first implementation of the IBM Virtualization Engine
- Extending the value of open integration with i5/OS and WebSphere



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