

Paul S. Otellini :: President and Chief Operating Officer

2003 Intel Spring Analyst Meeting

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COINCIPE COMPUTING & Communications"Always" and "All-Ways" Digital

Wireless

the 1st Killer Environment

Winning with **Connected Computing**

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7 Years Ago...

1 Billion Connected **Computers**

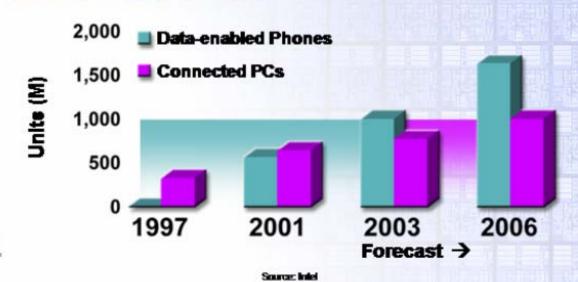
Andy Grove

4 Years Ago...

- **1 Billion** Connected **Computers**
- 1 Billion Connected Handsets

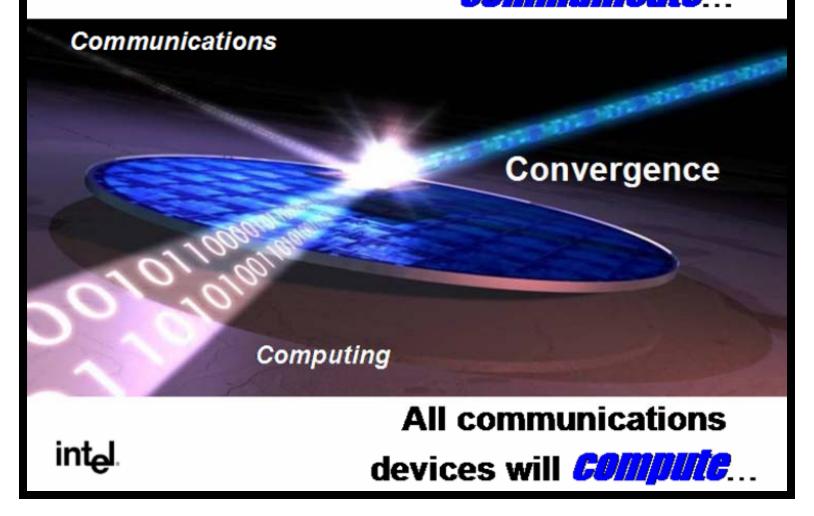
Craig Barrett

What happened?



One year ago...

All computers will **Communicate**...



Convergence is here... Intel® Centrino™ Mobile Technology MOBILE Manitoba "Wireless Internet on a Chip"

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Making Convergence Mainstream

With the device...

Intel® Centrino™ Mobile Technology

2003 → 2004 units: >2x

Intel XScale™ Technology-based handsets

2003 → 2004 units: >10x

and the connections...



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Adding 27,000 access points per day...

Source: Intel; InStat 5/03 (APs), Godner (Hobspots)

the **2010** Opportunity...

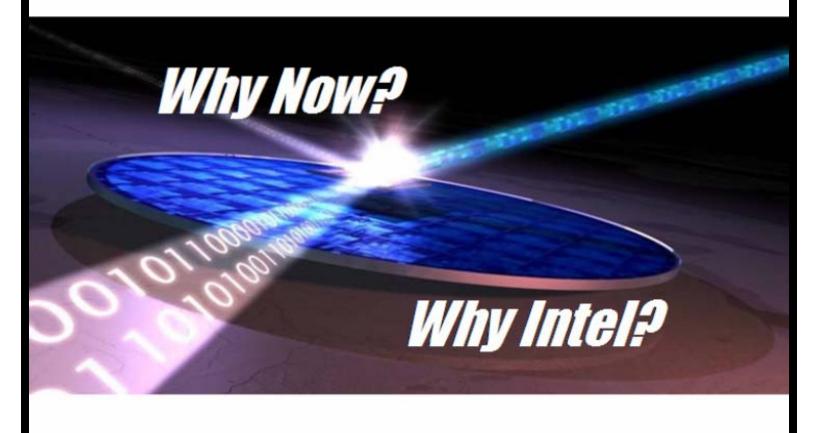
15 Billion Broadband **PCs**

Wired (Copper, DSL/VDSL/Cable and Fiber) and Wireless (802.11, 802.16 and 3G/4G)

2.5 Billion Connected Handsets with "GIZ" performance equivalence of a "4GHz Pentium" 4"



CONVERGENCE



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Convergence Why Now?

"ALWAYS" & "ALL-WAYS" Digital

int_el.

Wireless: The 1st Killer Environment



Wi-Fi means Business

Business Week, April, 2003



Telephony Magazine, March, 2003

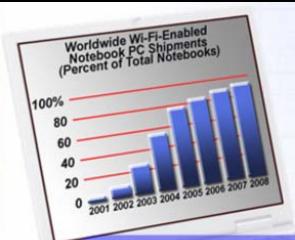


Wi-Fi: Anytime, Anywhere

Wall Street Journal, March, 2003







Driving Wireless Notebook Adoption

But, this is "BC"

(Before Centrino[™] Mobile Technology)

and Wi-Fi Enabled Handhelds...





Source: Allied Business Intelligence

Wireless: **not just 802.11...**

Devices will require multiple standards... in all geographies... in one device

WLAN $802.11.b \rightarrow b/g \rightarrow a/b/g/i \rightarrow n$

WMAN 802.16

WWAN GSM -> GPRS -> UMTS -> 4G?



"Radio Free Intel" = Leadership

and more than Notebooks & Handsets...

Wireless: the next SCIVEI opportunity

Internet: edge

Wireless: databases & OCC* apps

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* Occasionally Connected Computing

Convergence Why Intel will Will?

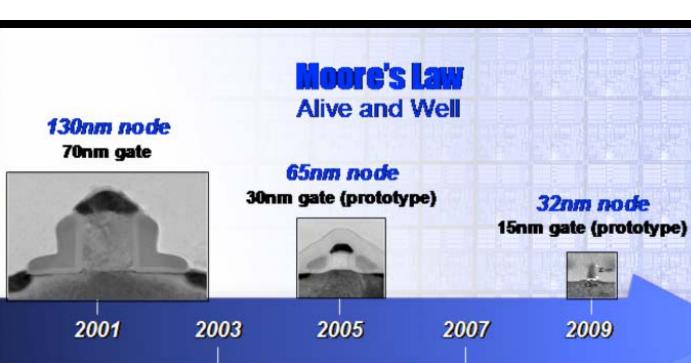
Lowest Cost

Highest Capabilities

Worlds best "Diffusion Engine"

Common Software

intel





90nm node 50nm gate



45nm node 20nm gate (prototype)

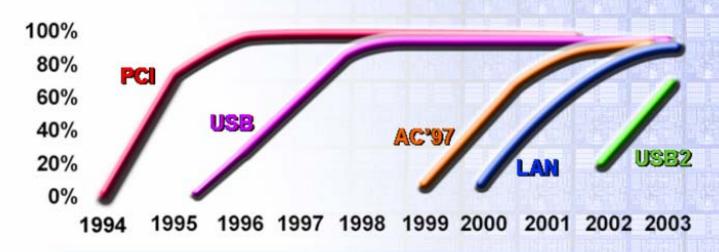


Delivering Highest Capabilities at Lowest Cost

Scores: Infol projection

Intel: The Worlds Best "Diffusion Engine"

% of Intel Based Chipsets with New Capabilities



No one else can "diffuse" capabilities on our scale Next... Wireless, PCI-E, Serial ATA...



Software Goal: Write once, run **Dest on Intel** processors...



Occasionally Connected Computing "Always" and "All-ways"
Connectivity



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Common denominator is Intel silicon and tools



Winning Converged Computing...

Mobile Internet Clients



Digital Home



Digital Office



Communications Infrastructure



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Intel® Centrino™ Mobile Technology:

Raising the Bar...

Worldwide launch in Q1

125 designs, 50 at launch

CMT ramp meeting our expectations

Wireless attach rate > 50%

New Market: "White-book"

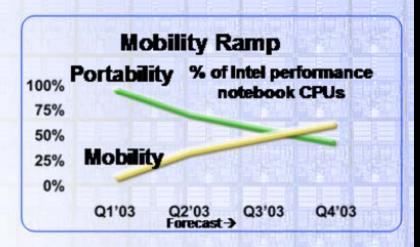
Launch: 3 ODMs, 35 SIs

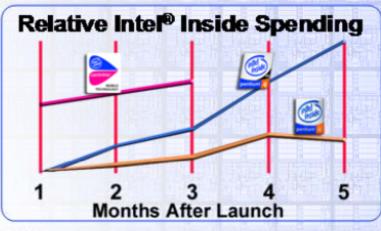
2003: 8 ODMs, 120 SIs

Enabling the channel to sell into

the growth segment

intel.





Source: Intel

And it gets **Better...**

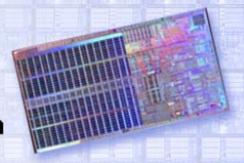
2H'03

Dothan: 1st 90nm mobile CPU

Better performance (2x cache, higher GHz)

Wireless: 802.11a/b & 802.11b/g

New chipset: Backlight Image Adaptation





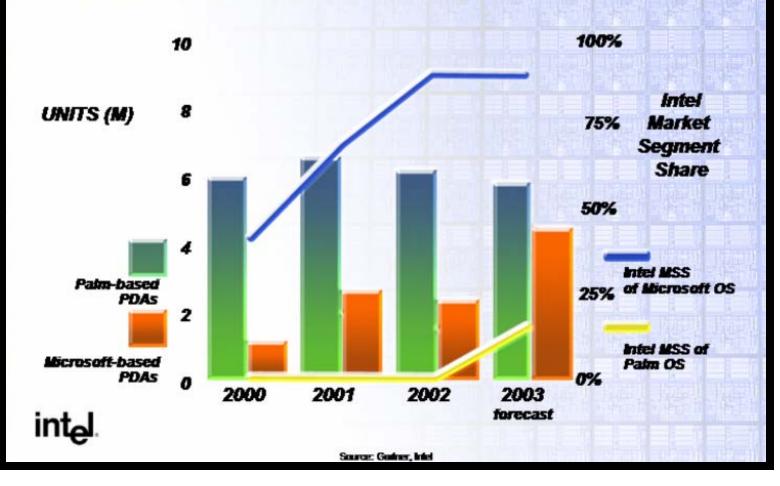
2004:

Next Gen. Wireless: 802.11a/b/g

Next Gen. Mobility: Newport Concept
"Quick Peek" lid display, Always-on Wireless

5 radios, all day battery life, fan-less...





Prescott: enabling the Digital Home & Digital Office

Technology Leadership:

Hyper-Threading, La Grande Technology
 Platform Leadership: New capabilities

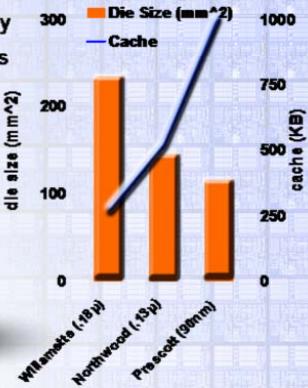
800MHz FSB, 400MHz DDR, SATA

Statesboro, Marble Falls, Powersville

Mfg. Leadership: 90nm, 300mm

Software: Office 11, Sinbad...







More than "just the next CPU"

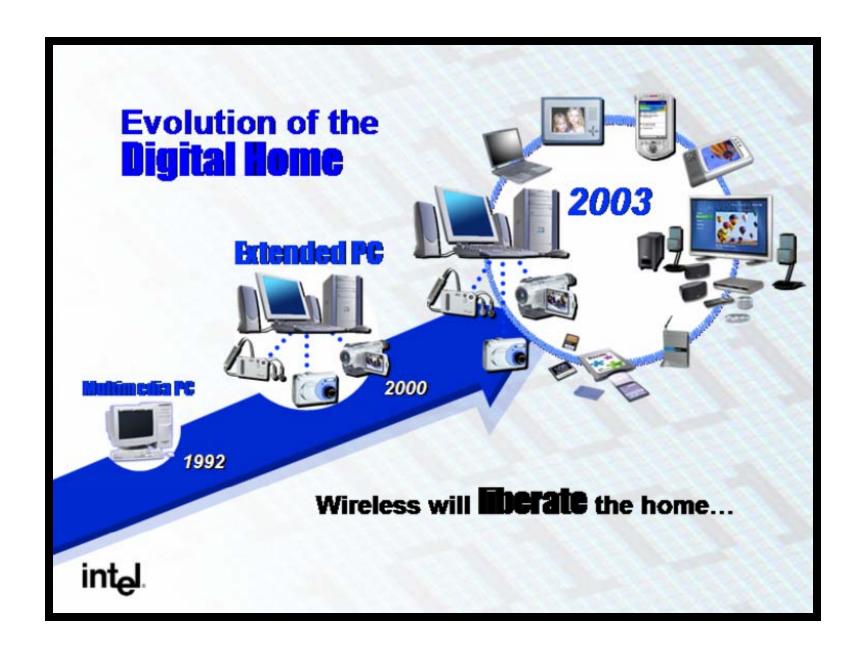
Winning the **Digital Home**



"TiVo is God's machine."

Michael Powell, FCC Chairman February, 2003

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Whole House Media Connectivity:

Worldwide Home Networking Revenues (\$B)

4 Media Network

Residential Gateways

2

1

2002

2003

2004 2005 F O R

2005 2006 2007 R E C A S T Dham Danta

Philips iPronto



Toshiba Transcube 20 Linksys Digital Media Adapter

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Winning the **Digital Home**

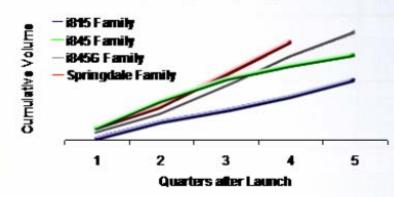
With Standards & Partners
CE and PC Industries

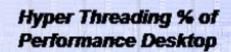
Technology & Capabilities

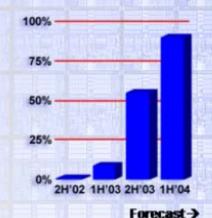
1H: Springdale (865), HT 2H: Prescott: 90nm, 300mm

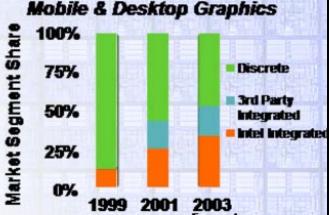
graphics: goal is #1 in '03

5 Quarter Chipset Ramp History









Your Content, Your Apps: "Always" & "All-Ways" Available

Sample Marting Research Q4 To2

Winning the **Digital Office**

With a compelling upgrade proposition

With **notebooks and wireless**

With the best **server building blocks...**

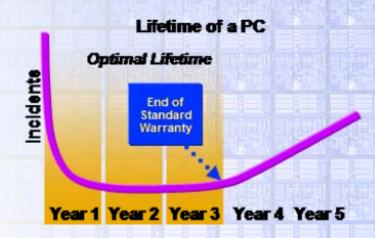
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Digital Office: Why Upgrade Now?

500M PCs below 700MHz*

Three refresh drivers

- 1) TCO
- 2) Security
- 3) Productivity



A Big Four accounting firm partner indicated that his firm's auditors... will look at clients running mission-critical business processes on unsupported and vulnerable computers.

Aberdeen Group



Source: Siemens Business Services

* Source: Business Week, Jun 2003

IT benefits from **Mobile and Wireless**

ThinkEquity

The key driver why laptops will be such a lynchpin for corporate upgrade cycle is **productivity**.

Gartner



WLAN ROI: Additional 8hrs per week in productivity over wired networking

~ 85% of our employees have notebooks. We gain huge **productivity advances** by providing notebooks to anyone who wants one.

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Proof-points: **GNITING** the Refresh...













Siemens Business Services









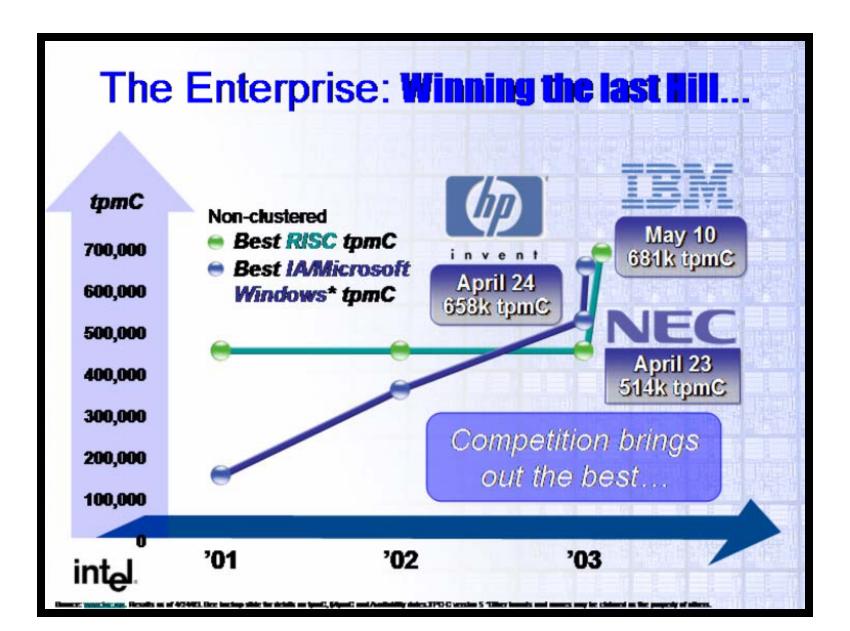




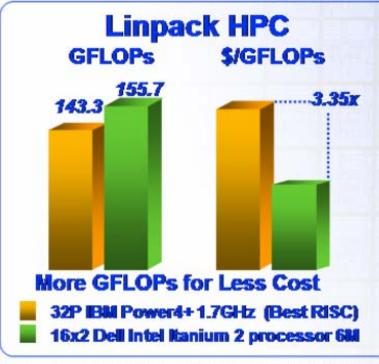
419 "wins"... in all geos

1.5M incremental clients, and growing...

Other names and brands may be claimed as the property of others



Leading the (Lin) Pack: Intel® Itanium® 2 Processor 6M



Announcing: World's fastest 32 processor HPC result

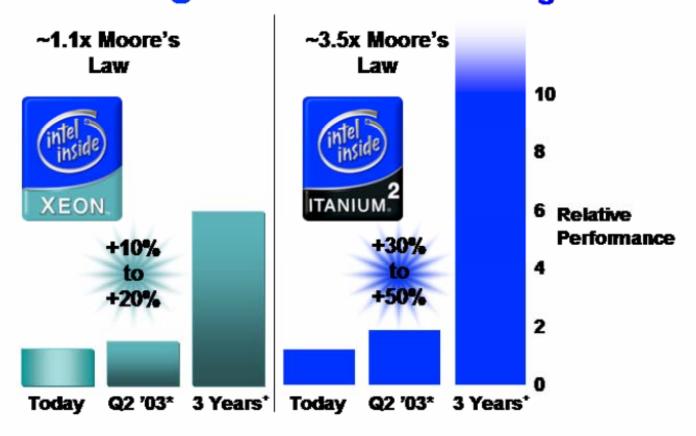
At 1/3 the cost...

Source: Dell Computer for Banium® 2 processor 6M results on a cluster of 16 Dell PowerEdge Servers, each with 2 Manium® 2 processors 6M at 1.5GHz, 4GB RAM, Red Hat Linux AS 2.1. Source: http://www.1.itmu.com/servers/exerved/secrices/hardware/servers perfunit for Best RISC result on IBM eServer p690 with 32 Power 4+ processors at 1.7GHz. SIGRLOP based on estimated street prices of these systems.

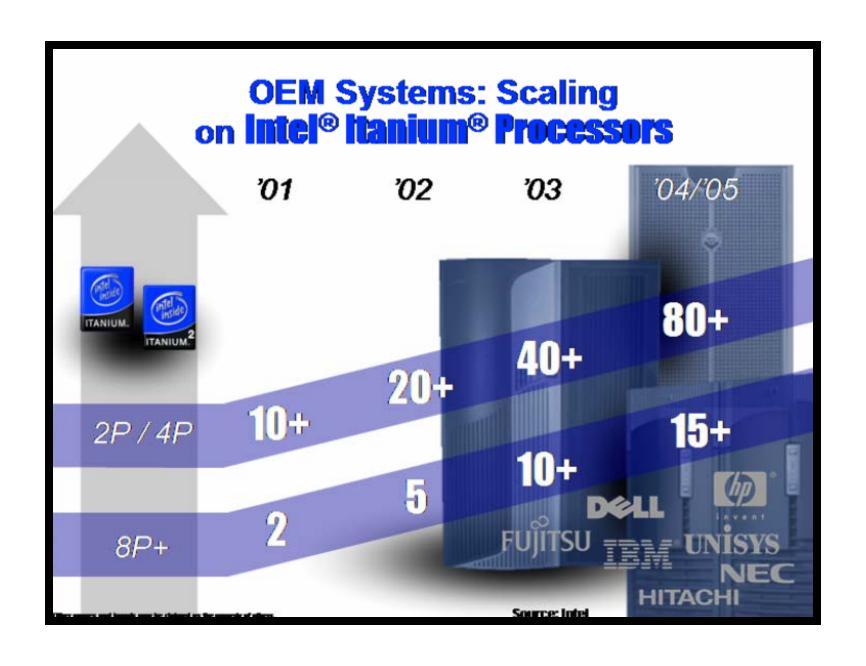
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Intel® Xeon® Processor and Intel® Itanium® Processor Families CONTINUING TO WIN: Short and Long Term



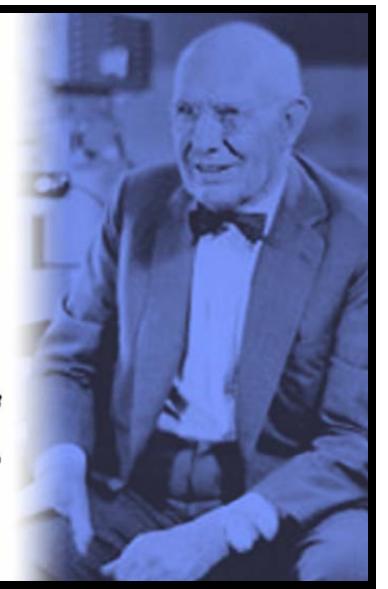
"Q2 Of is a performance range based on an average increase measured and estimated across morthods that include: SPECint200, SPECjib200, SP



Innovation's Role

" I believe business will come back when we get some products that people want to buy."

Charles F. Kettering, 1933
Founder of Delco
Director of General Motors R&D



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Backup for TPC-C

	TPC-C Version 5 results			
Year	2001	2002	2003	2003
Best RISC tpm(455818	455818	455818	680613
\$/tpmC	28.58	28.58	28.58	11.13
Availability date	2/28/2002	2/28/2002	2/28/2002	11/8/2003
	Fujitsu PRIMEPOWER 2000	Fujitsu PRIMEPOWER 2000	Fujitsu PRIMEPOWER 2000	IBM eServer
	c/s w 66 Front-	c/s w 66 Front-	c/s w 66 Front-	pSeries p690
System name	Ends	Ends	Ends	Turbo 7040-681
Best IA tpmC	165218	342746	514034	658278
\$/tpmC	21.33	12.86	11.5	9.8
Availability date	3/10/2002	3/31/2003	10/22/2003	10/23/2003
		NEC Express5800/		
	Unisys e-@ction	1320Xc C/S	NEC	
	Enterprise Server	w/Express5800/12	Express5800/1320	

Source: www.tpc.org. Results as of 5/12/03

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