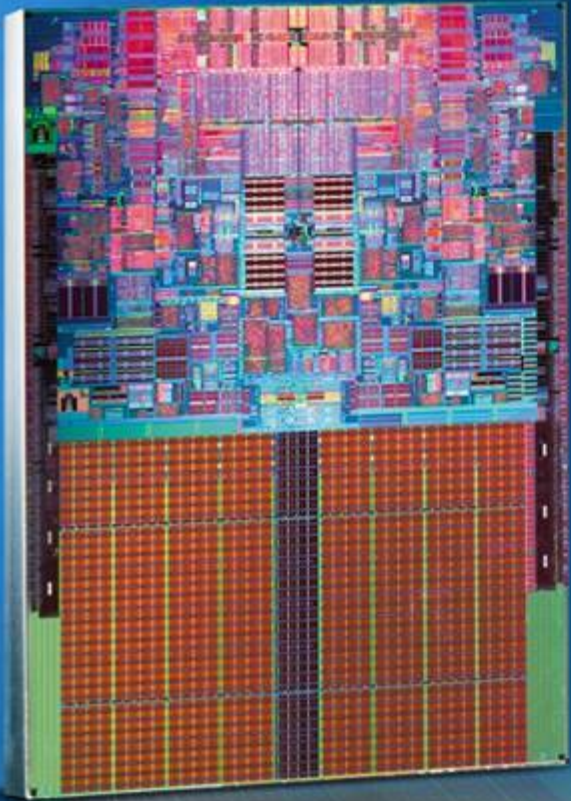




Intel Developer
FORUM



Pat Gelsinger

Senior Vice President
General Manager
Digital Enterprise Group

Intel Developer
FORUM

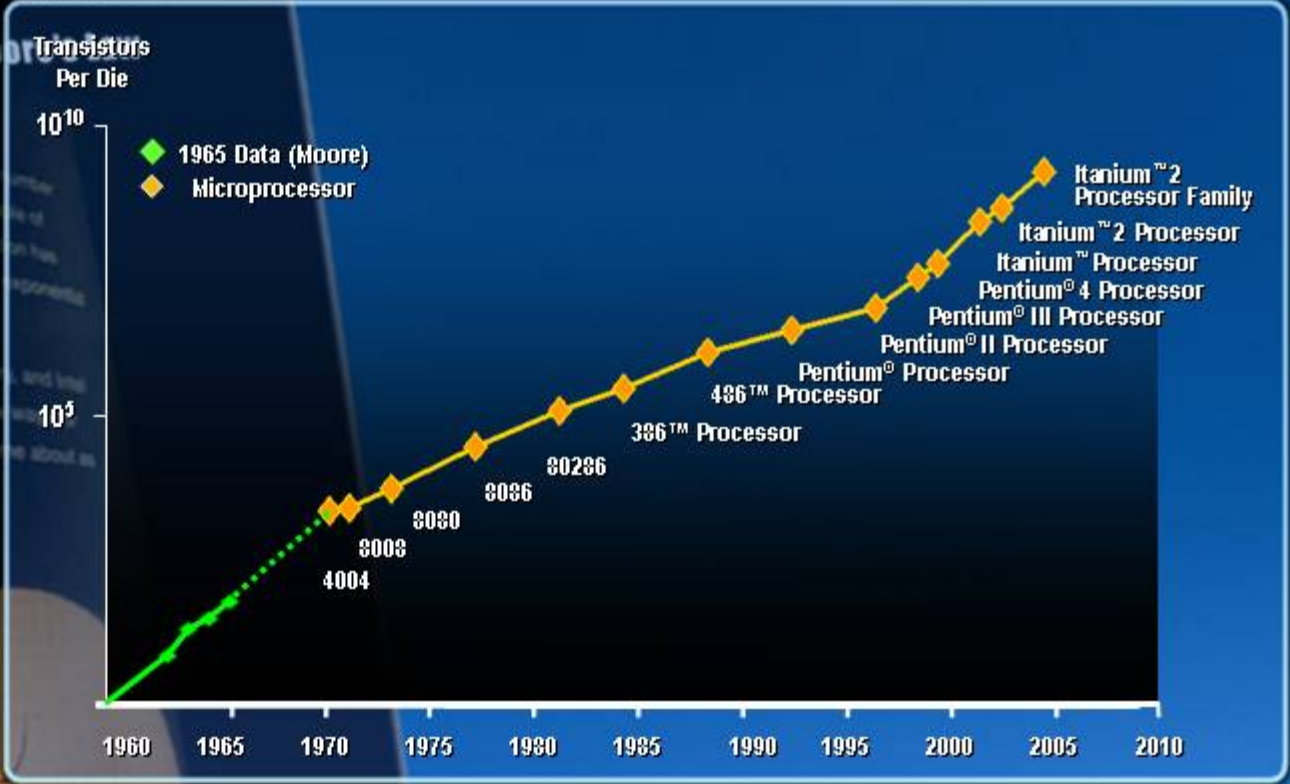
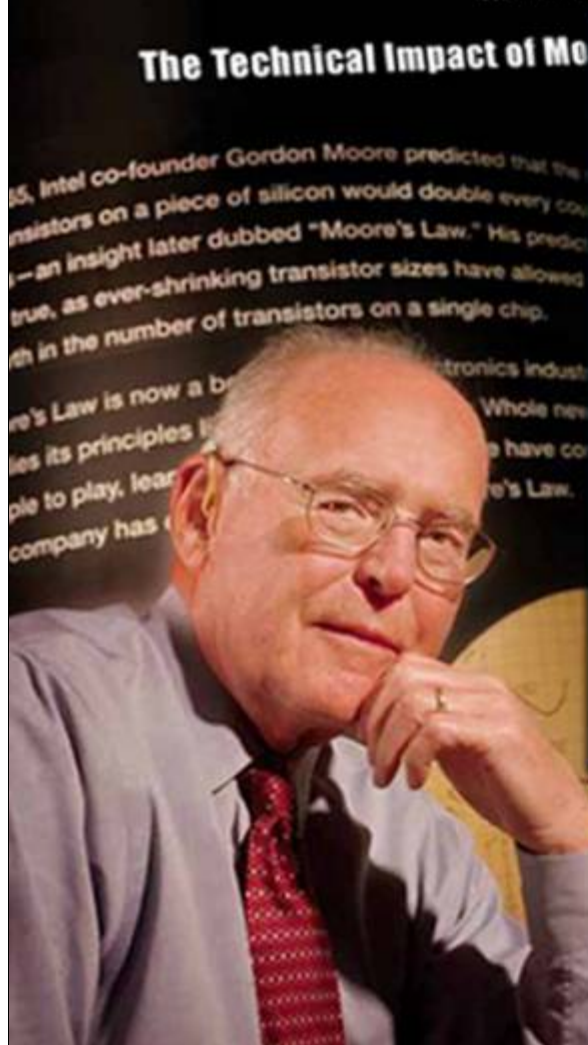
Risk Factors

Today's presentations contain forward-looking statements. All statements made that are not historical facts are subject to a number of risks and uncertainties, and actual results may differ materially. Please refer to our most recent Earnings Release and our most recent Form 10-Q or 10-K filing available on our website for more information on the risk factors that could cause actual results to differ.

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, visit Intel Performance Benchmark Limitations (<http://www.intel.com/performance/resources/limits.htm>).



The Relentless Pursuit of Moore's Law

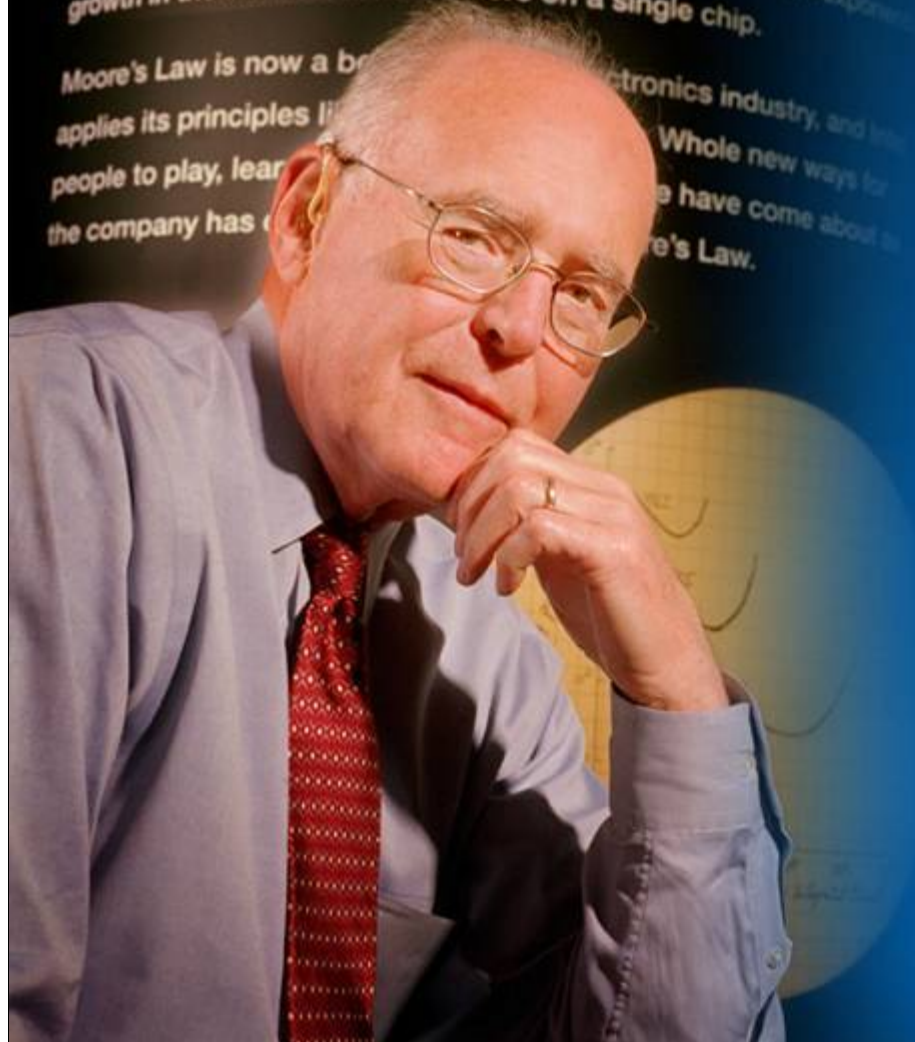


Source: Intel

Moore's Law

In 1965, Intel co-founder Gordon Moore predicted that the number of transistors on a piece of silicon would double every couple of years—an insight later dubbed "Moore's Law." His prediction has held true, as ever-shrinking transistor sizes have allowed exponential growth in the number of transistors on a single chip.

Moore's Law is now a benchmark in the electronics industry, and Intel applies its principles to... Whole new ways for people to play, learn... the company has... have come about as... e's Law.



Amazing products
... done efficiently
... with the industry
... for the customer.



2006 - An Amazing Year

SERVERS



CLIENTS



Q1

Q2

Q3

Q4

2006

Projected

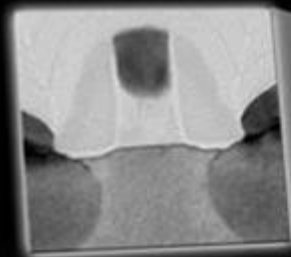
Some dates estimated and subject to change without notice.

Intel® Core™ 2 Duo Launch

July 27, 2006

The Core 2 Contribution

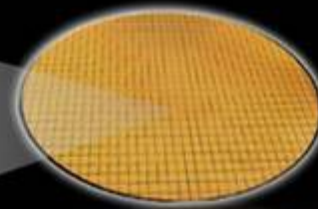
World's Best
Process Technology



World's Best
Microprocessor Design



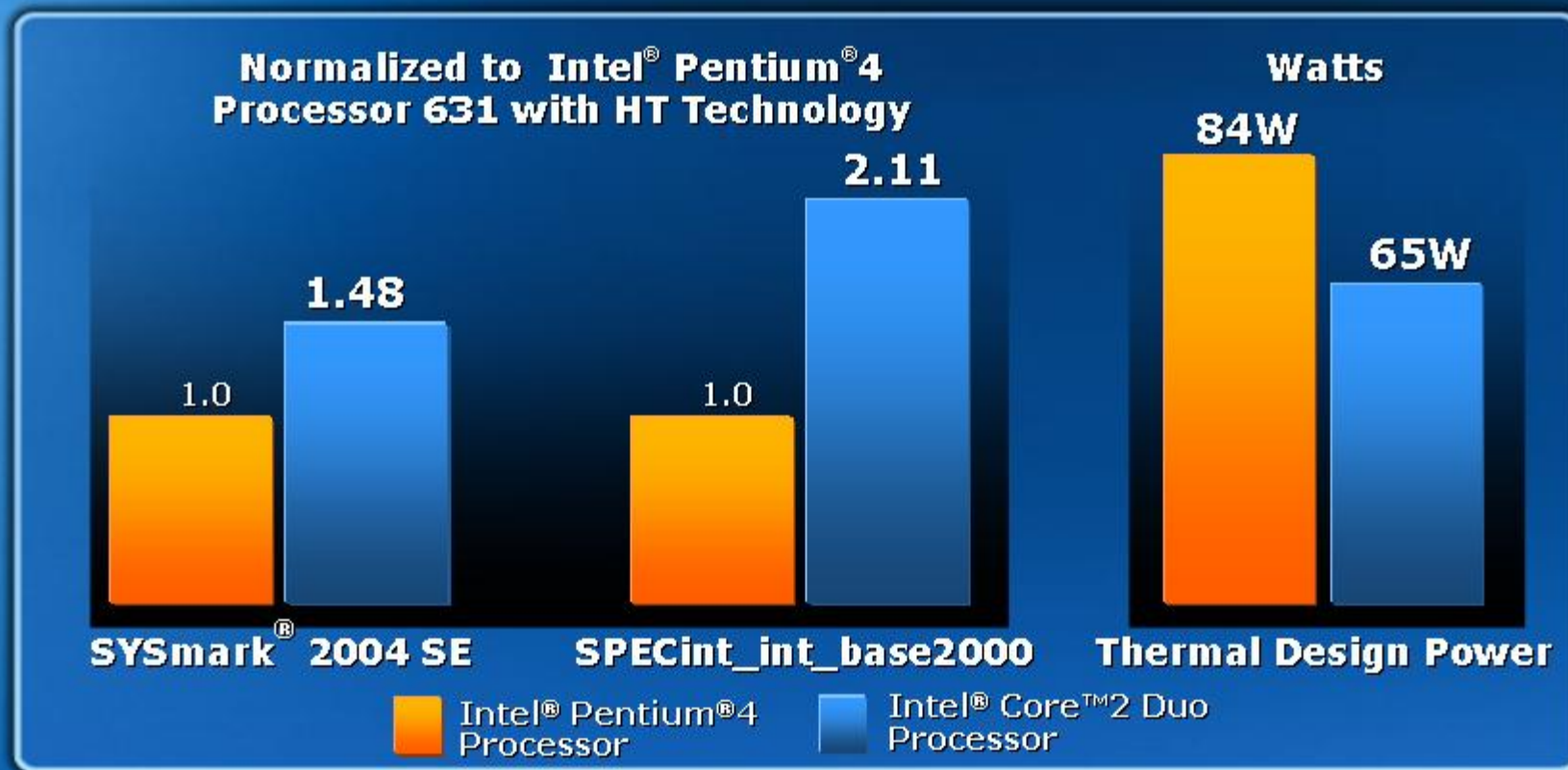
World's Biggest
Factory Network



World's Best Processors



Intel® Core™ 2 Duo Technology



ANANDTECH your source for hardware analysis and news

“... didn't lose a single benchmark in our comparison, NOT A SINGLE ONE”

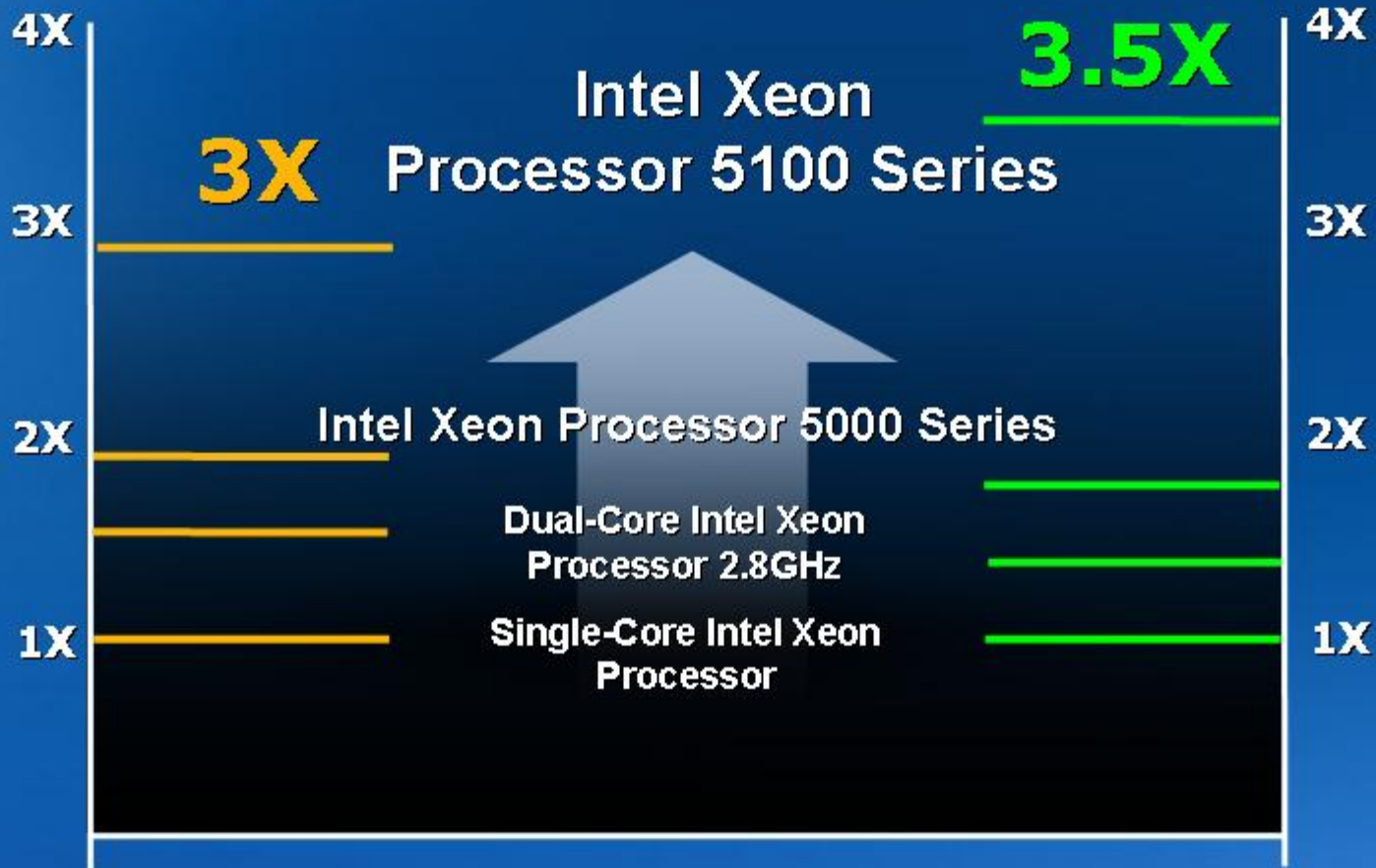
Intel® Core™ 2 Duo Processor E6300 (2MB, 1.86GHz, 1066 MHz FSB). Intel® Pentium® 4 Processor 631w/HT Technology (2MB, 3GHz, 800 MHz FSB). Other names and brands may be claimed as property of others.



Intel® Xeon® Processor 5000 & 5100 Series

Performance

Perf/Watt



Based on published/measured SPECint_rate_base2000. Intel Xeon Processor 3.60 GHz 4GB; Dual-Core Intel Xeon Processor 5160 3.00GHz 8GB; Clovertown 2.67 GHz 8GB. Perf/Watt based on SPECint_rate_base2000 benchmark w/system power measurements. Intel internal data. Published AMD Opteron 2220 SE (2.8GHz, socket F). spec.org. Other names and brands may be claimed as the property of others





Susan M. Whitney
IBM Systems Technology Group
General Manager, System x



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

IBM Systems Agenda/ Intel Relationship



Collaborative Innovation

- BladeCenter* design
- Performance, scalability
- Power & cooling



Openness

- IBM BladeCenter open spec.
- Blade.org
- PCI & PCI Express



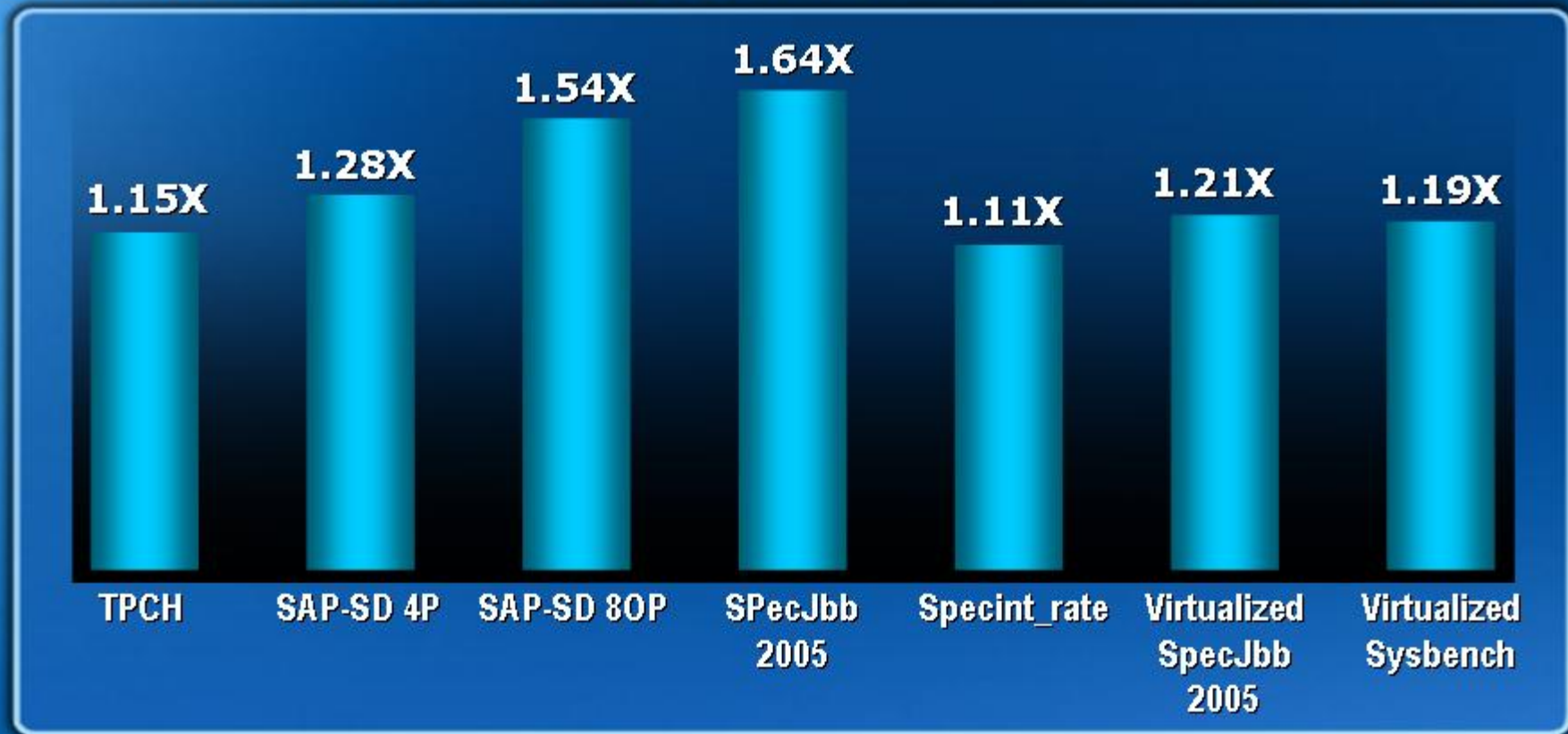
Virtualization

- Intel® Xeon® Processor 5100
3X performance
- Intel® Xeon® Processor 7100
enterprise scalability
- Peak performance factor



Breakthrough 4-Way Performance

Performance: Intel® Xeon® Processor 7140M vs. Best Published 4P AMD Opteron Result



Best-published 4P AMD Opteron results on 8/29/06. Dual-Core Intel Xeon 7140M 3.40 GHz v. AMD Opteron 8220SE; SAP-SD4P: AMD Opteron 885 2.6GHz; TPCH: AMD Opteron 875 2.20GHz; SAP-SD8P: AMD Opteron 880 2.40 GHz. Other names and brands may be claimed as property of others. Virtualized data: Principled Technologies, comparison across 1/2/4/8 VMs. Relative comparison based on the peak performance of each system. principledtechnologies.com. TPCC: IBM System x3950 with 4 x Intel Xeon processor 7140N 3.33GHz 128 GB. HP DL585 w/4 x Opteron Dual-core 2.4GHz, 128GB memory. Opteron DC x64 2.4GHz 2M published on 12/5/05. IBM results published to tpc.org on 9/19/06.



IBM Investment In Innovation

- Intel® Xeon® 7100-based systems:
 - 20% better TPC-C performance than any other 4-socket x86 server
- X-Architecture – 101st #1 leadership score
- Commitment to 4th gen. technology – supporting quad-core Xeon® MP



CoolBlue^{*} Energy Management Framework



Built Upon Intel Demand Based Switching Technology



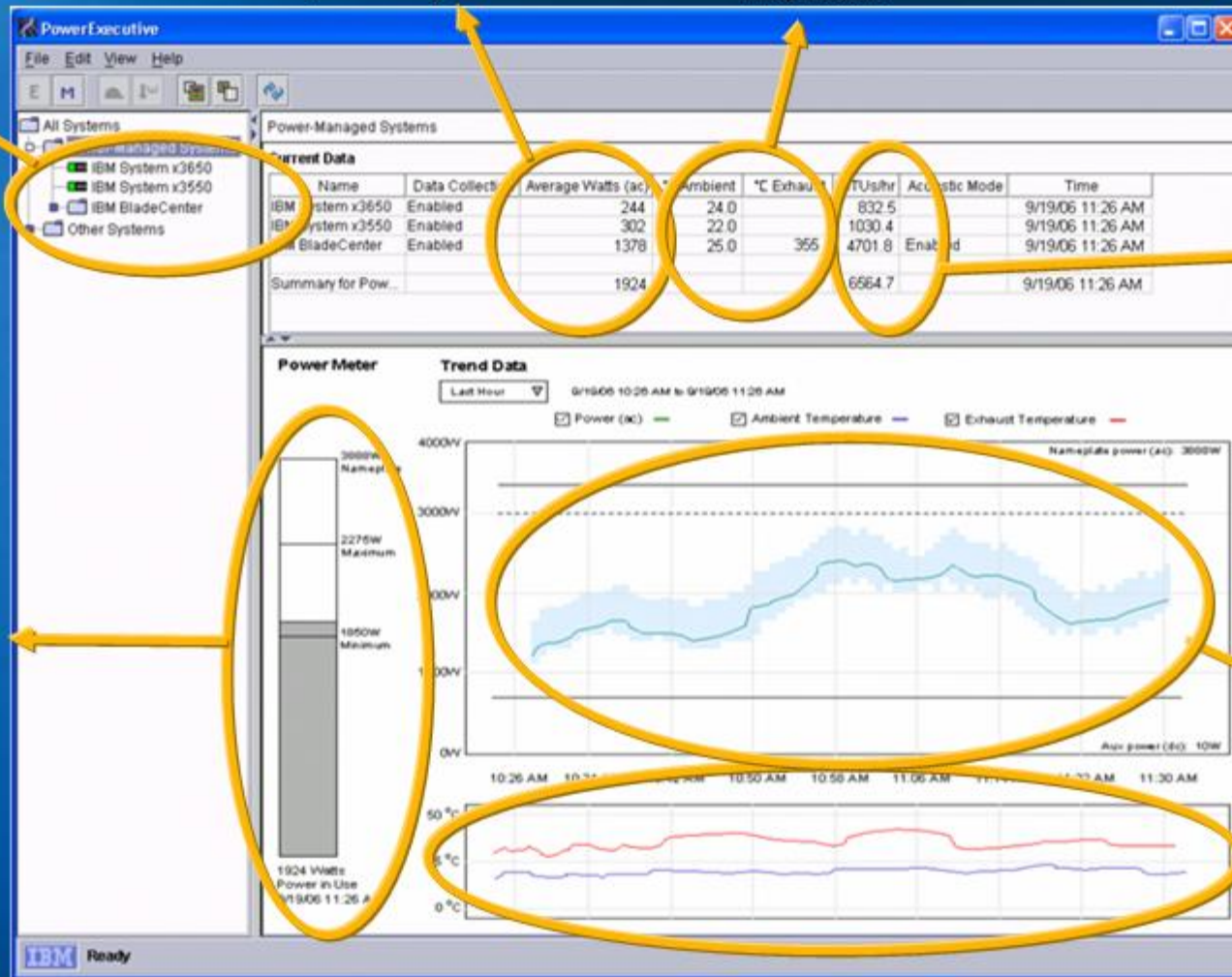
Other names and brands may be claimed as the property of others

PowerExecutive* in Action!

Manage Power at the rack and server level

Compare actual vs. name plate power at system level

View inlet and exhaust temperature



Track heat emitted

Compare rack actual power vs. Label Power

Trend power use over time

Trend temperature over time





The World's First IA Quad Core Processor

Up to 55% Performance Increase

Socket & Platform Compatible

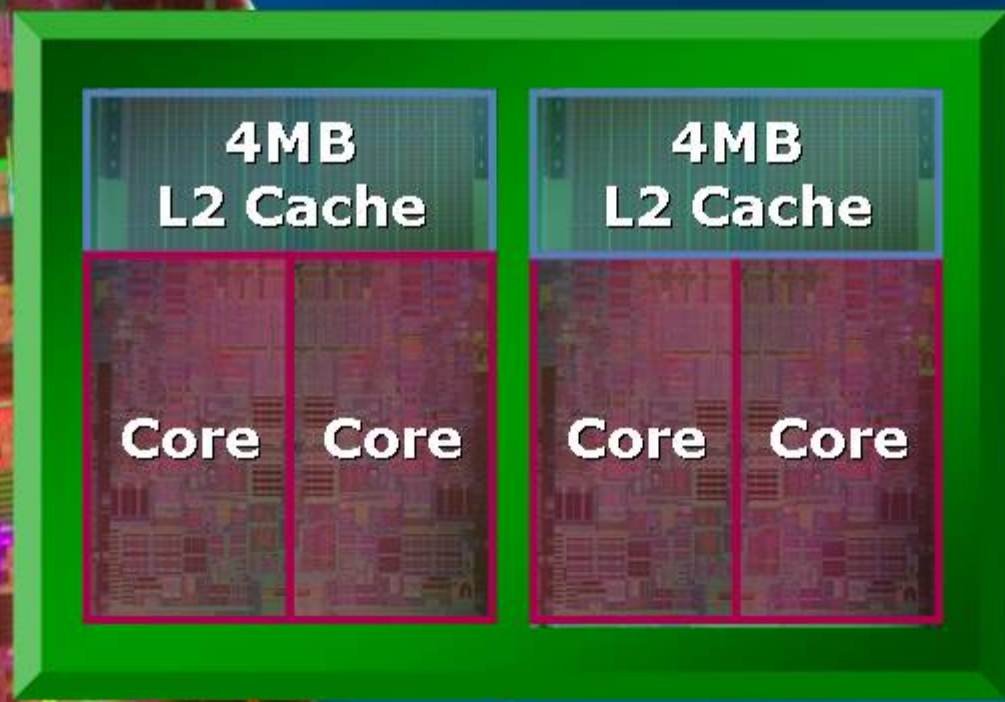
Intel® Core Micro-architecture

High Volume Server & Desktop

Available in Q4'06



The World's First IA Quad Core Processor



- Cache
- Die Selection
- Compatibility
- Cost
- Capacity
- Customers



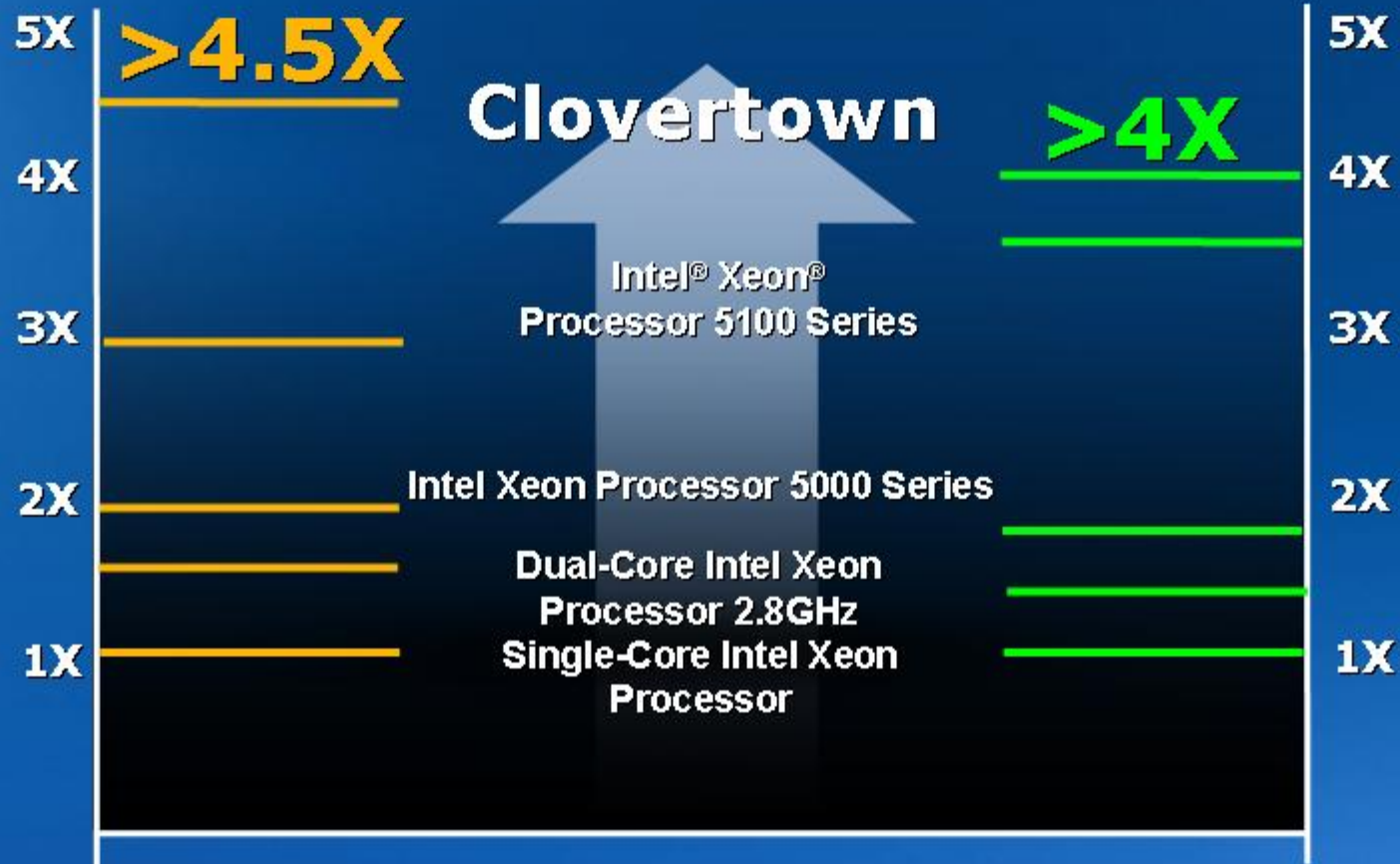
1066 / 1333 MHz



Exceptional Performance And Energy Efficiency

Performance

Perf/Watt



Based on published/measured SPECint_rate_base2000. Intel Xeon Processor 3.80 GHz 4GB; Dual-Core Intel Xeon Processor 5180 3.00GHz 8GB; Clovertown 2.67 GHz 8GB. Perf/Watt based on SPECint_rate_base2000 benchmark w/system power measurements. Intel internal data. Published AMD Opteron 2220 SE (2.8GHz, socket F) spec.org. Other names and brands may be claimed as the property of others



Itanium® 2 Processor 9000 Series

Up to
2X
Better
Performance¹



Up to
20%
Lower Power¹

Up to **2.5x** Better Performance per Watt¹



Hitachi* Cold Fusion-3e/4S-4U Server (Itanium® 2 Processor 9050, 16GB) and Intel® SR870BN4 Server System (with Itanium® 2 Processor w/9M L3 Cache, 16GB). Measured power. StarCD, Workload Version: V3.22 (64bit). Other names and brands may be claimed as the property of others

Itanium® Solutions Alliance 1 Year Anniversary

**\$10,000,000,000
ISA Investment**

**2x Itanium
Performance**

**> 100,000
End-User
Deployments**

FUJITSU

NEC

**FUJITSU
COMPUTERS
SIEMENS**

APPRESSO

sas

hp
invent

**Form&Data
ウイングアーク
テクノロジーズ**

Microsoft

Novell

**SAISON
INFORMATION
SYSTEMS
CO.,LTD**

SECURE 64

Bull

intel

**ITANIUM® SOLUTIONS
A L L I A N C E**

ORACLE
SOFTWARE POWERS THE INTERNET™

SYBASE

OBC
ON. WAPES. ONWARDS. GLOBE.

GENCOM
Customer First

PSI
Platform Solutions, Inc.

symantec

Hyperion

TIBCO
The Power of Now™

HITACHI
Inspire the Next

UNISYS

redhat

sgi

bea

SWsoft

SAP

**>10,000 Apps
2x YoY**

**100th ISA
ISV Member**

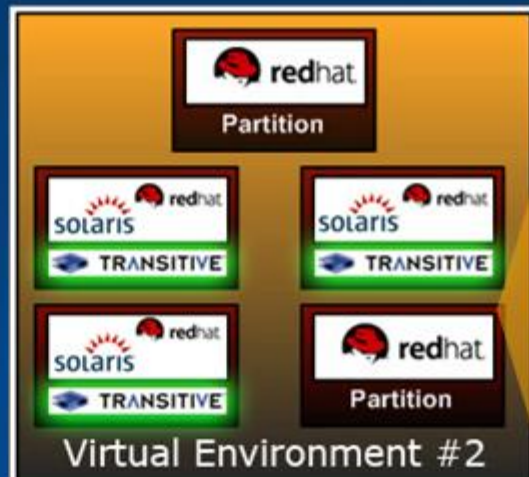
**2.5x Itanium
Perf/Watt**

Itanium[®] 2 Flexibility & TCO Advantage

Seven SQL Server DB's



Hitachi Virtualization Monitor



Hitachi Virtualization Monitor



Hitachi Server

- #1 Oracle IA64 Native
- #2 Oracle Clients SPARC
- #3 IBM DB2/MQ SPARC
- #4 DB2 Clients SPARC
- #5 Apache IA64 Native

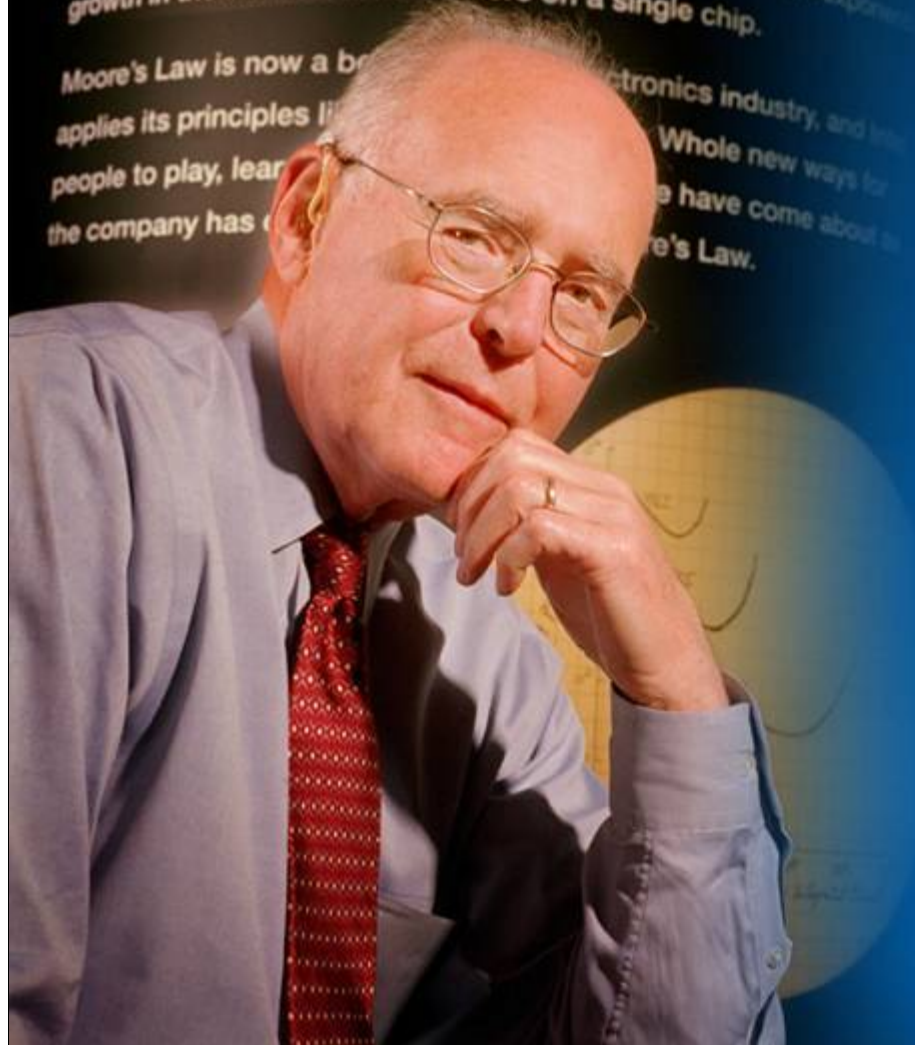
Sharing Processor & I/O Resources



Moore's Law

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Amazing products

... done efficiently

... with the industry

... for the customer



Benchmarking: Performance & Energy Efficiency

MobileMark*
2002 - 2005



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




Benchmarking: Performance & Energy Efficiency

**MobileMark*
2002 - 2005**



EECoMark*



 **BAPCO**® *Real World, Real Benchmarks*

BAPCo® Announces EECoMark™ - A Joint venture with Ecma International to Create a Performance-Qualified Energy Benchmark for Industry Standard Personal Computers - Invites Industry to Join the Development Process.

September 25, 2006



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

Benchmarking: Performance & Energy Efficiency

MobileMark*
2002 - 2005



ECoMark*

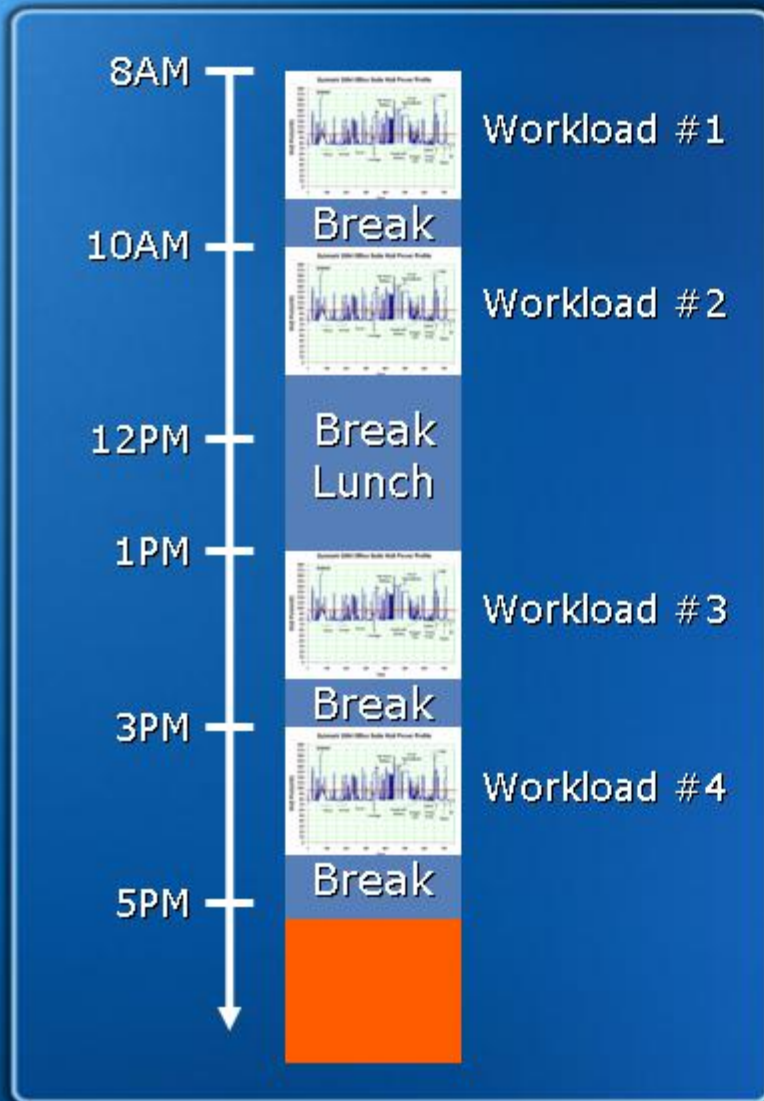


Spec* "Power"
(1H'2007)

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



Benchmarking: Performance & Energy Efficiency

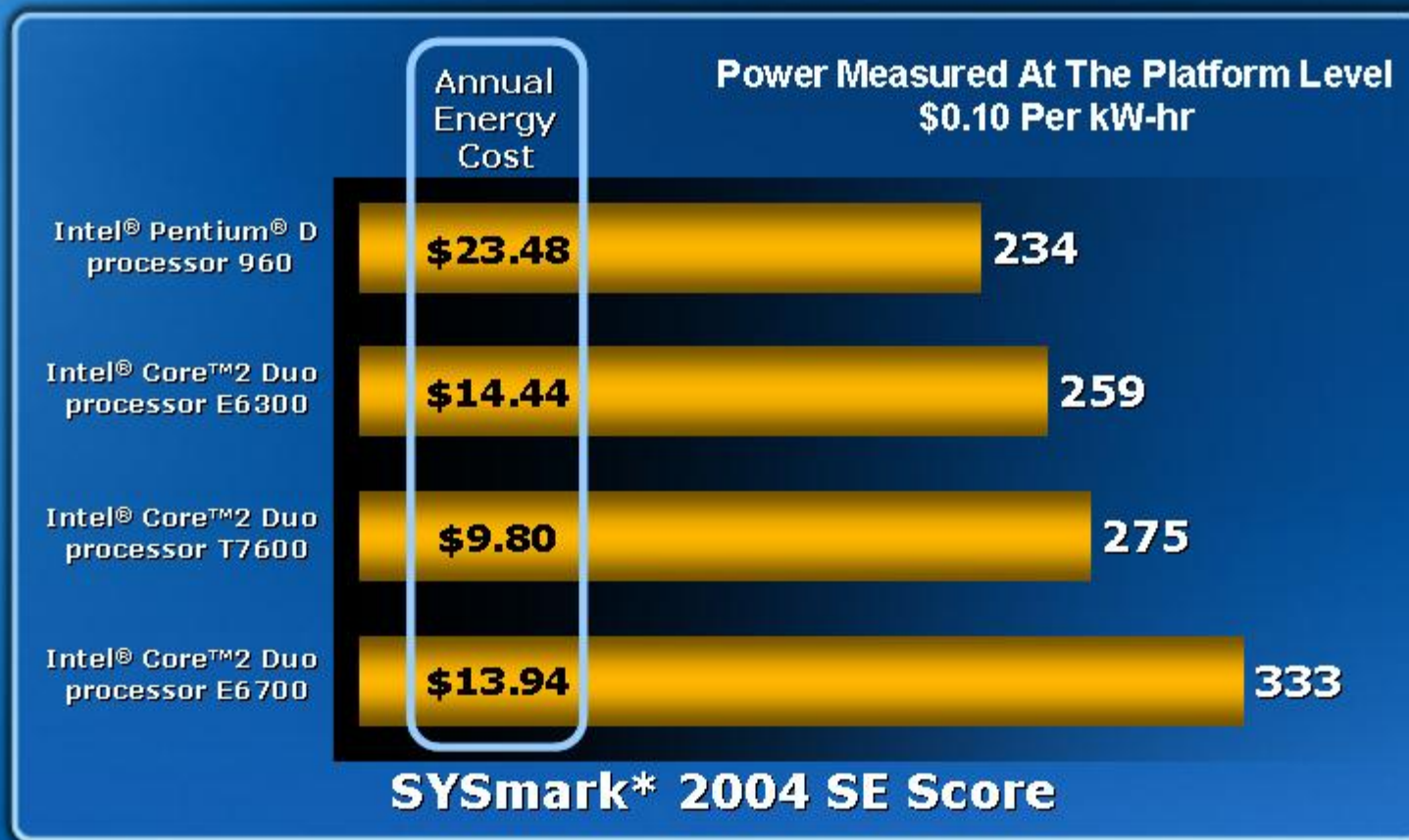


"EDS is aligned with Intel in the need for a methodology to measure meaningful energy efficiency and performance based on the way people actually use PCs."

Matt Trevorrow
Vice President
of Workplace Services



Performance and Energy Cost



Intel Pentium D processor 960, Intel Core2 Duo processor E6700, Intel Core2 Duo processor E6300, Intel DG965SS motherboard with Intel G965 Express chipset. Intel Core 2 Duo processor T7600, Intel 945GM Express Chipset. **All platforms:** 2x512MB Micron DDR2-667 5-5-5-15, Maxtor 300GB, 16MB cache, 7200rpm, Windows® XP Build 2600 SP2 NTFS, DirectX 9.0c. Other names and brands may be claimed as the property of others



"PG&E is looking forward to working with Intel and its server providers to deliver programs that educate customers about energy efficiency, and to financially support their purchasing decisions."

Mark Bramfitt

High Tech Segment Supervisor



***Pacific Gas and
Electric Company®***



IBM* HS21



Dell* PowerEdge
2950



HP* ProLiant*
BL460c

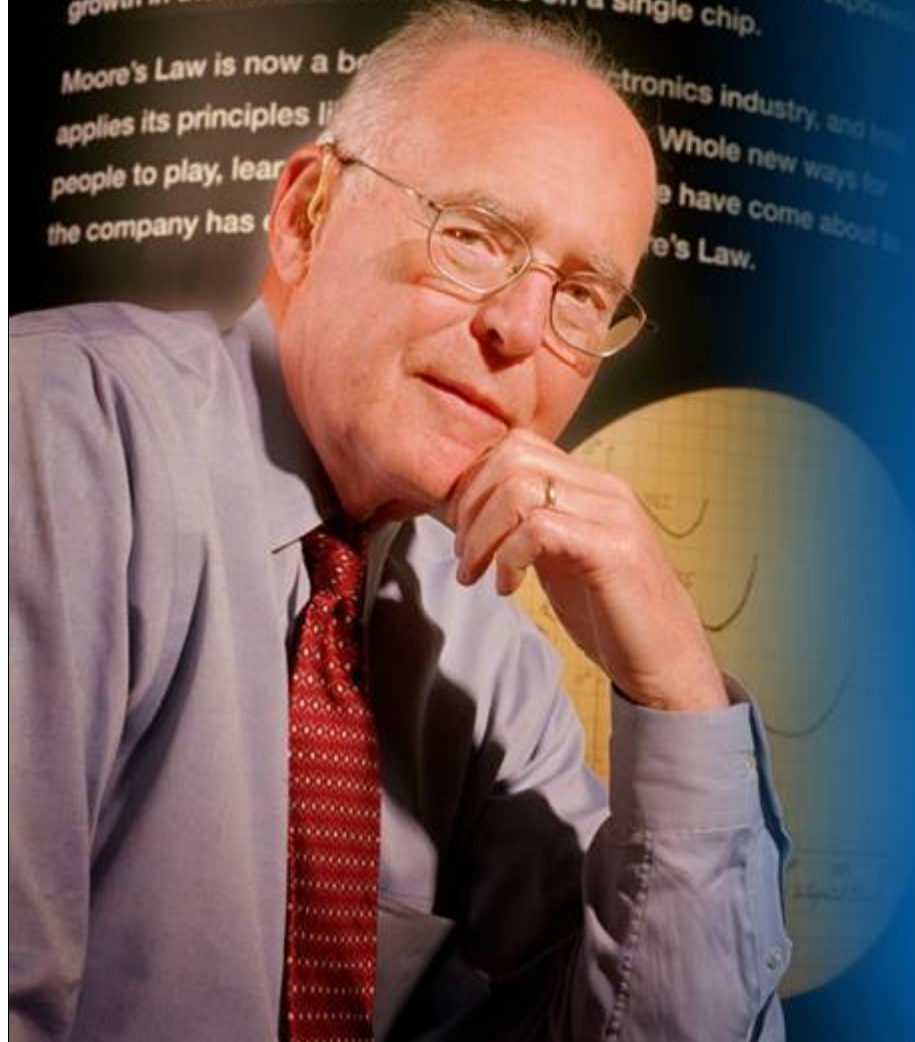


Other names and brands may be claimed as the property of others

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Amazing products

... done efficiently

... with the industry

... for the customer



MICROPROCESSOR

www.MPRonline.com

THE INSIDER'S GUIDE TO MICROPROCESSOR HARDWARE

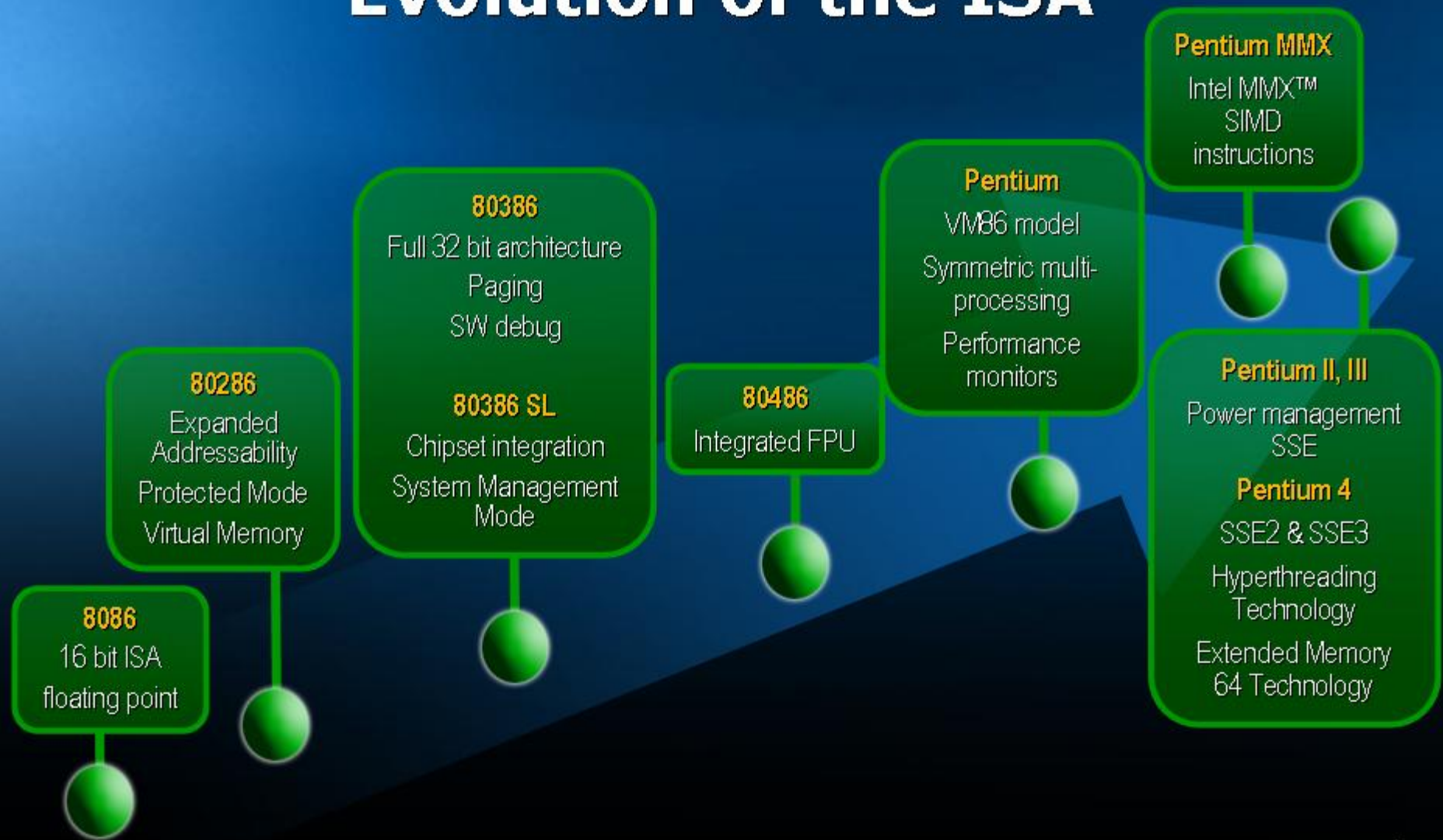
Can the 386 Architecture Keep Up?

John Hennessy and Pat Gelsinger
Debate the Future of RISC vs. CISC

December 4, 1991



Evolution of the ISA



'80

'85

'90

'95



Emerging Workloads

High Performance
Computing

Media Processing

Search & Compare
String Processing

Data Security

Pattern Recognition for
Large Data Sets



Announcing the Next Generation



White Paper
Intel® Architecture

Extending the World's Most Popular Processor Architecture

New innovations that improve the
performance and energy efficiency
of Intel® architecture

R.H. Ramanathan
Intel Corporation

Primary Contributors

Ron Curry
Srinivas Chennappayya
Robert L. Cross
Shiyong Guo
Mark J. Burr
Intel Corporation



New Instructions

Vectorizing Compiler

Media

String and Text
Processing

Application Targeted
Accelerators



"Intel's instruction innovation offers Adobe the opportunity to reap significant performance improvements to our products. Adobe plans to utilize new instruction capabilities in our future products."



*Bill Hensler
Vice President*

Adobe *Adobe Systems Incorporated*

"Intel and Microsoft have a long history of working together on Instruction Set optimizations. We look forward to continuing our work to harness the benefits of these new instructions in future releases of Windows OS, tools and applications."

*Amir Majidimehr
Corporate Vice President
Consumer Media Technologies
Microsoft Corporation*

Microsoft®



Virtualization Programs

Novell.

Novell Introduces New Virtualization Solution Optimized for Intel Technology

Press Release

Novell and Intel collaborate to deliver first Xen-enabled Linux enterprise solution and drive virtualized Linux solution deployments

NEW YORK (InfoWorld Virtualization Executive Forum)—25 Sep 2006—Novell today announced the industry's first enterprise Linux-based virtualization solution built on Xen, optimized for Intel Virtualization Technology. SUSE® Linux Enterprise Server 10 from Novell® running on Dual-Core Intel Xeon® platforms will provide customers with a low-cost, high-performing virtualization solution that has the ability to host Linux® environments without the need to modify the guest operating systems. With the integration of Intel Virtualization Technology within Xen, Novell also announced plans to offer enterprise support for virtualized SUSE Linux Enterprise Server 9 and Red Hat® Enterprise Linux 4 running on SUSE Linux Enterprise Server 10, allowing Red Hat customers to migrate to Novell service and support while still running Red Hat Enterprise Linux in a virtualized environment.

"Being first to provide Xen virtualization with enterprise Linux means our customers will be first to reap the benefits of running virtualized Linux platforms, including Red Hat, on SUSE Linux Enterprise Server 10," said Jeff Jaffe, Novell executive vice president and chief technology officer. "This cross-platform approach to virtualization means both Novell and Red Hat customers will be able to take advantage of the cost and flexibility benefits of virtualization at a fraction of the cost of existing virtualization solutions."

General manager, Core Software Division, said, "Intel and Novell have worked extensively on this solution based on Xen. With Intel Virtualization Technology, environments with very low



Virtualize ASAP Program



Tech Resources for
ISV Best Practices

Virtualization Deployment
Guidance

Platform Consolidation
Performance

Virtual Appliance
Configurations



Virtualize ASAP Software Vendors



<http://www.VirtualizeASAP.com>



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

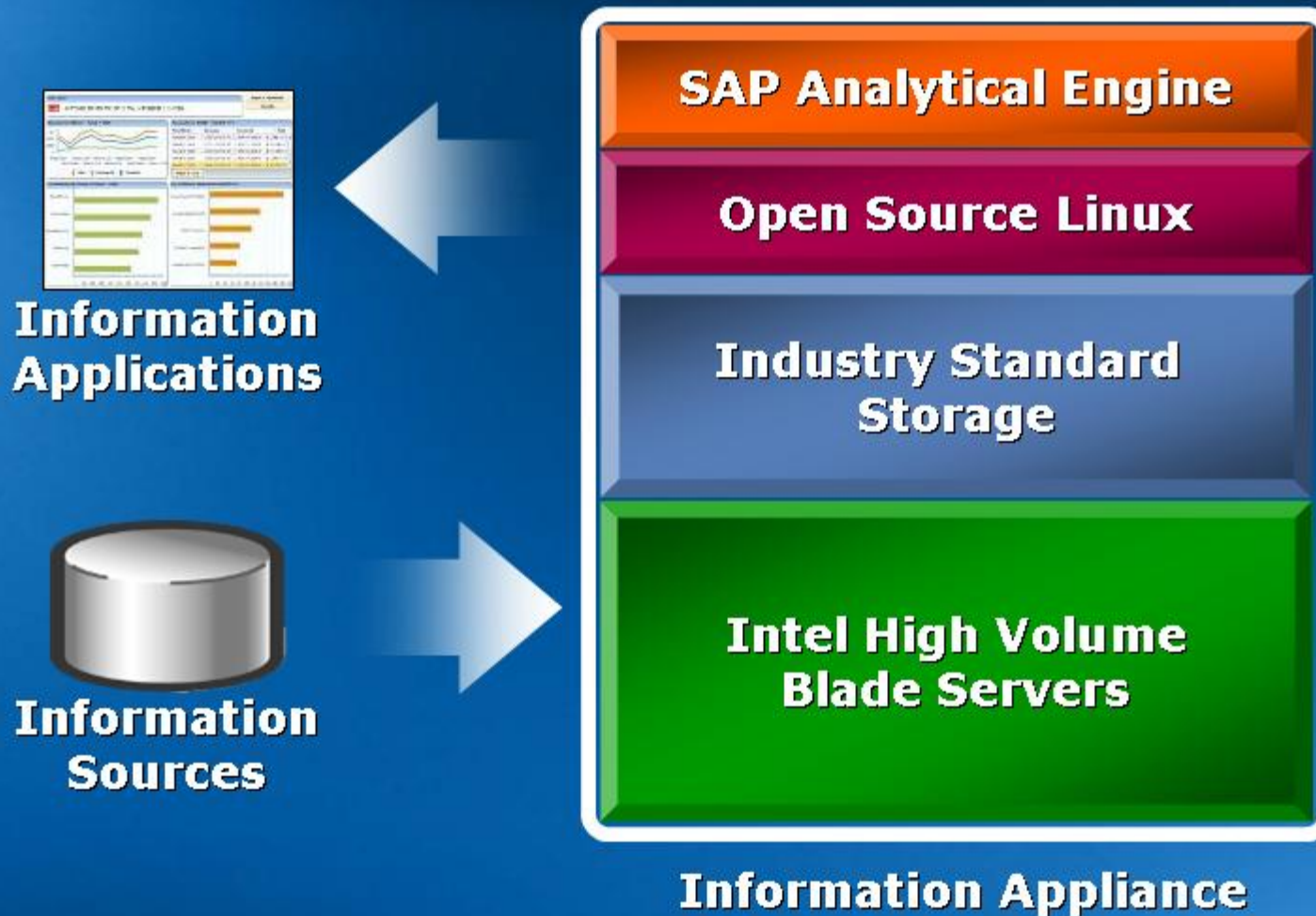


Ranjan Das
Senior Vice President
Emerging Solutions
SAP Americas



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

Information Appliances



Looking Ahead

Multi-Core and Many-Core

Virtualization

Manageability

Security

 +  = Innovation



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

Enabling Innovation – FSB Licensing

“Altera believes that FSB support, as demonstrated by Intel on Altera’s Stratix FPGA, can enable exciting acceleration for applications such as medical imaging, financial services, and data analytics.”

ALTERA

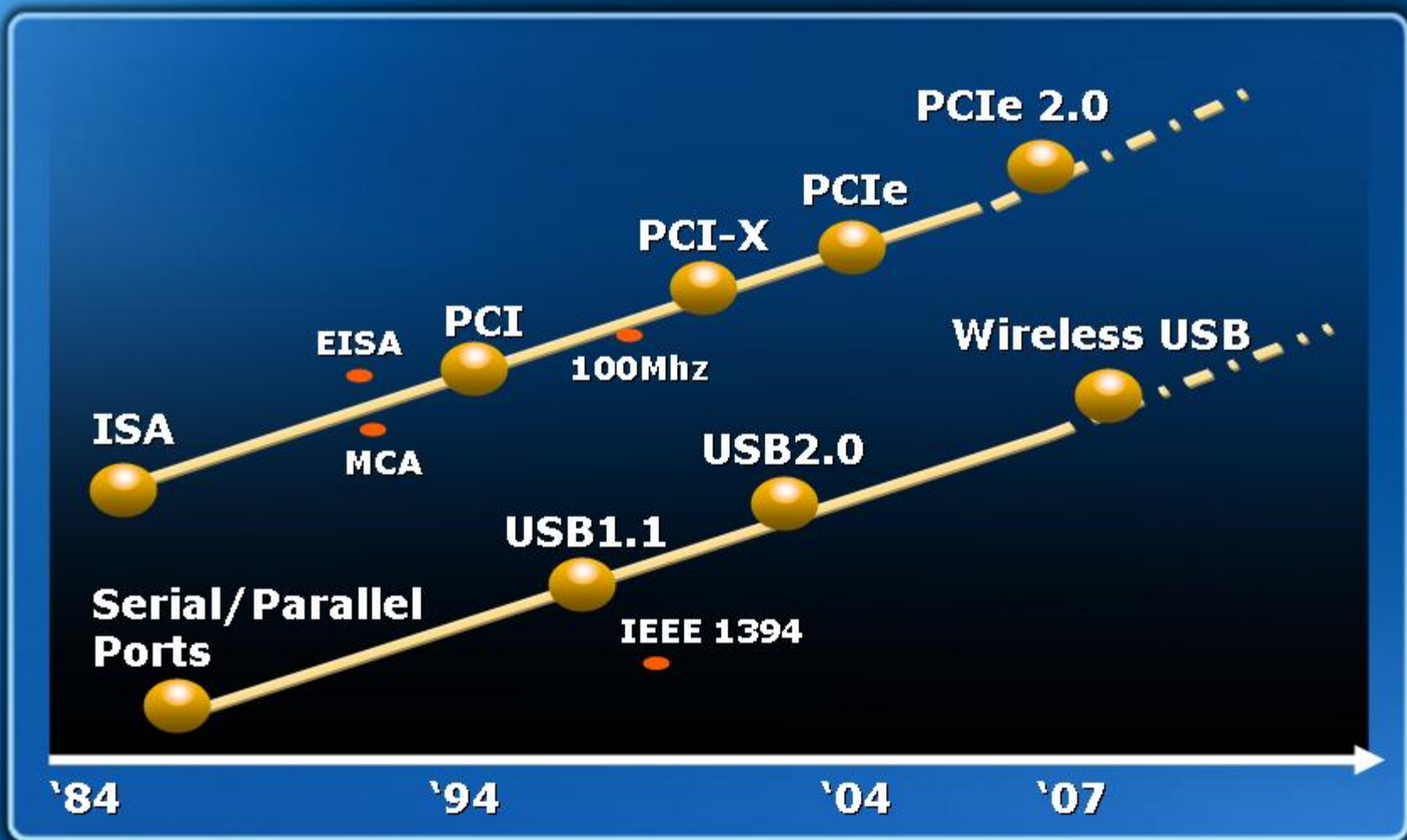
“Our continued alliance with Intel in support of next-generation interfaces, such as the Front Side Bus, will lead to new opportunities for Xilinx FPGA products and solutions to address and accelerate critical computing applications.”

XILINX

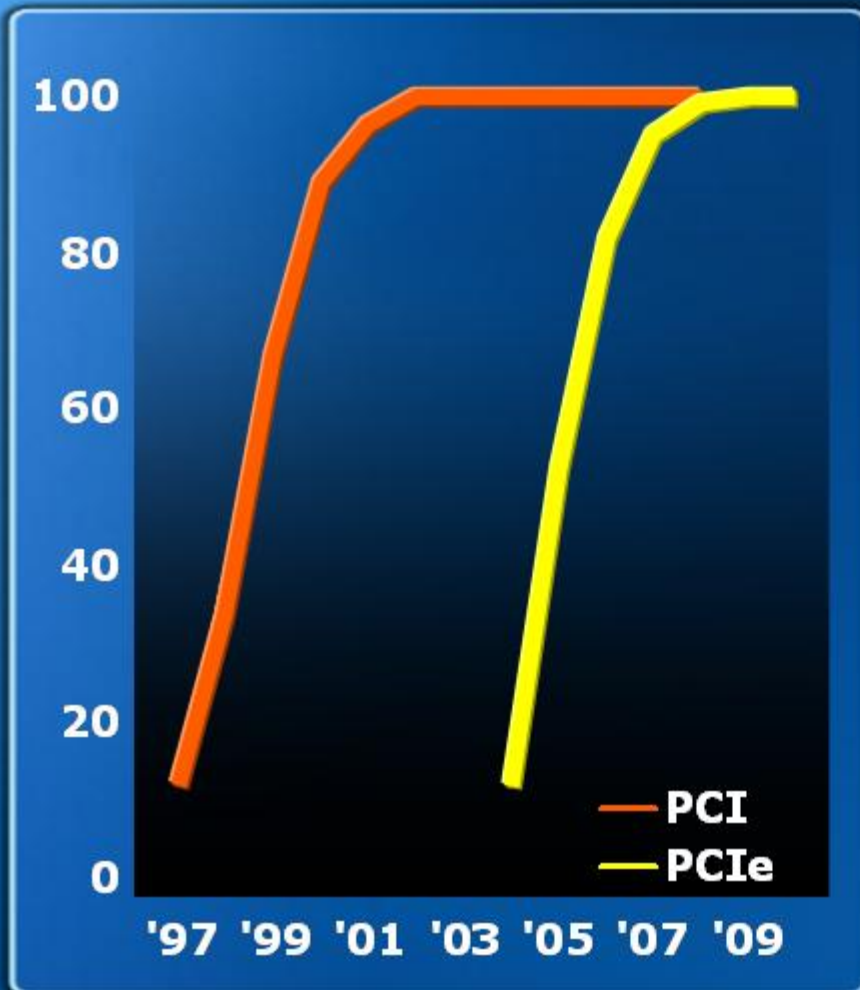
Other names and brands may be claimed as the property of others

intel

I/O for Compute Platforms



PCI & PCIe Growth



100% of Graphics Suppliers
Fiber Channel Storage Products

SCSI/RAID

SAS

SATA

Dual and Multiport 1Gb

All 10Gb

Television Tuners

Accelerators





T.M.S. Bradicich, Ph.D.

IBM Fellow,
Chief Technology Officer,
System x / BladeCenter Servers



Growing Interest in Accelerators



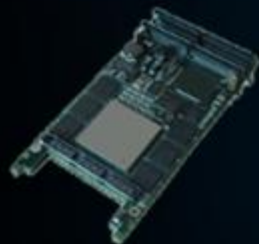
Math-Intensive Transactions

Financial, scientific, economic models



Visualization and Media Processing

Graphics, video, speech



Embedded Content Processing

Data mining, encryption, compression, XML

Broad Industry Support

ALTERA

adaptec

BROADCOM

Celoxica

CISCO SYSTEMS

ClearSpeed

DELL

EMC²
where information lives[™]

EMULEX[™]
We network storage.

hp
invent

intel

IBM

IDT

LeCroy

LINUX
NETWORK

LSI LOGIC



NVIDIA

Mellanox
TECHNOLOGIES

Myricom

Novell

NETEFFECT

PLX
TECHNOLOGY

PhysX[™]
by ageia

QLOGIC

SYNOPSYS[®]
Predictable Success

PMC
PMC-SIERRA

Tektronix

Xambala[™]
The Semantic Processing Company

XILINX

XtremeData, Inc.

As a leading provider in high performance networking, QLogic supports Intel in its pursuit to provide higher bandwidth and lower latency access to processor platforms in order to address the I/O interconnect requirements of the future.

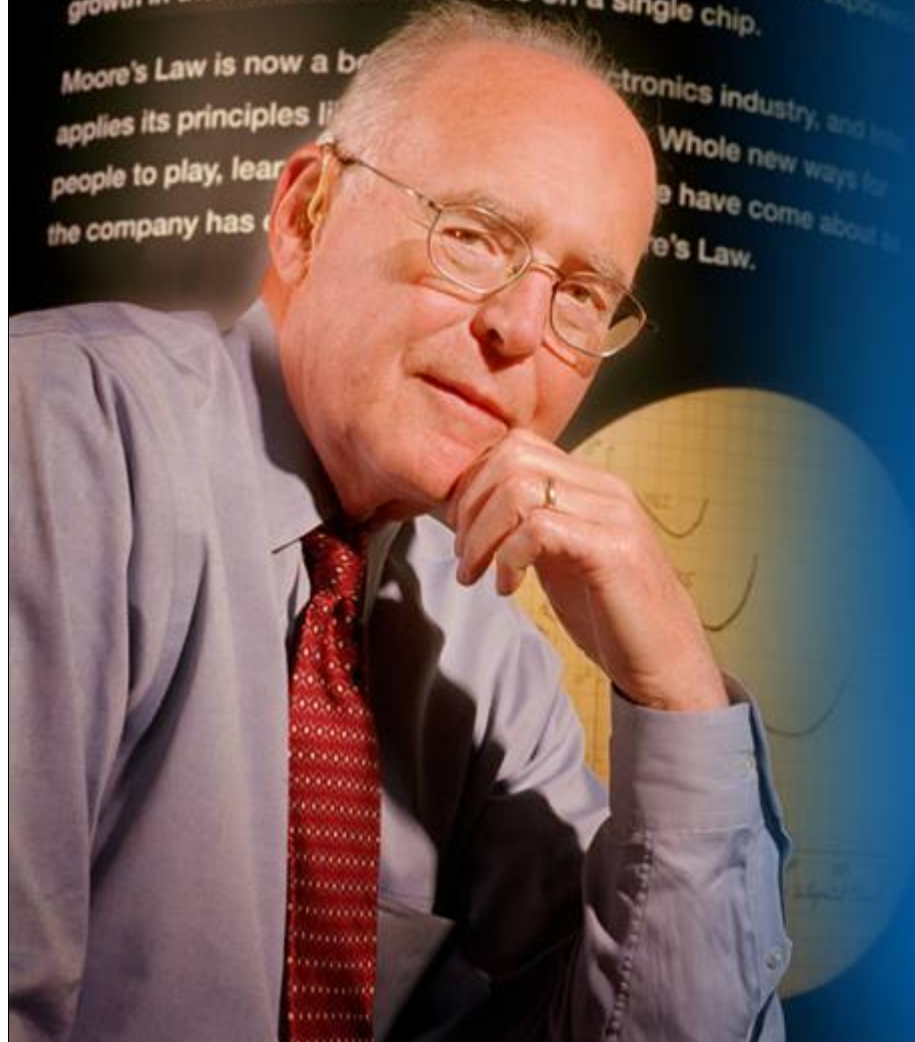
QLOGIC

intel

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Amazing products

... done efficiently

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... for the customer



Years of Research

Customer Concerns Go Beyond Price and Performance



Security

- \$81M in losses reported in 2004 due to virus & DoS attacks²
- Time to exploit after fix availability rapidly shrinking³



TCO

- Over 15% of assets not discoverable down-the-wire due to removed agents, OS/power state⁴
- 5% of support incidents are desk side visits resulting in 52% of support costs



Complexity

- Cutting hardware configurations in half can lower support costs by 10% to 55%⁵
- Additional OS version can increase TCO by \$135 to \$203 per PC/year¹



Productivity & Connectivity

- 90% of business process lost to lag time-task travel from one person to another⁶



Source: WiPro NerveWire Study, *New Insights on PC Management: Benefits of Controlling PC Hardware Diversity*, Q1, 2004
2004, CSI/FBI Computer Crime and Security Survey 3 Source: Microsoft, 2004 4 Source: 2003: Intel IT manual inventory of assets
Wire Study, *New Insights on PC Management: Benefits of Controlling PC Hardware Diversity*, Q2, 2004 5 Source: Ultimus, 2001

Intel® vPro™ Technology-based Platform

Capital Times
What's ... in Washington

**vPro: The Next Generation
of Business PCs**



**Fight Worms
While You Sleep**

TechNewsWorld™
ALL TECH, ALL THE TIME

Intel Secures the Desktop

CRN

**VARs, MSPs Bank on Intel's vPro
To Reduce On-Site Service Calls**

Daily Channel News
eChannelLine

Intel's Great Leap Forward

eWEEK.com

**Intel vPro Promises IT Managers
Less Needy Desktops**



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

2006 Usages

Audit a Powered-down PC

Remotely Repair A Down System

Keep Software Agents Active

Securely Wake & Update Systems

Virtual Security and Management Appliances

Stunning Performance

Energy Efficiency



Broad Industry Support



*Other names and brands may be claimed as the property of their respective owners.



Todd Bradley
Executive Vice President
HP Personal Systems Group



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

"...adoption of Intel vPro technology will significantly improve (our) ability to cost-effectively, more securely, and efficiently manage our global fleet."



BMW Group

"There's a whole range of things that Symantec and Intel can accomplish given the new Intel vPro technology ..."



symantec..

"Capgemini is well positioned to take advantage of the remote management capabilities embedded in Intel® vPro™ technology. We believe that it will provide our customers with an exceptional user experience with less downtime, lower support costs, increased performance and a significant reduction in power consumption."



Looking Ahead ... 2007

Go Mobile & Wireless

New Hardware Based Security

Additional Deployment Options

Support for Web Services
Management Interface



Traditional Client Compute Models

Thin Clients
Terminal/Server

Claims:
Data security
TCO
Reduced complexity

SaaS Enabled Client

Thick Client
Desktops/Notebooks

Claims:
Increased Productivity
Rich User Experience
Mobility



SaaS Enabling Architecture



... with the industry



CITRIX



YAHOO!

Google



Microsoft

... for the customers



CREDIT SUISSE FIRST BOSTON

XEROX



SOUTHERN CALIFORNIA EDISON AN ENERGY INTERNATIONAL COMPANY





David Wadhvani

Vice President
Product Development
Flex Product Line
Adobe Systems, Inc.



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

Rich Internet Applications with Apollo

Reaches Audiences
Anytime, Anywhere

Simplifies
Development &
Deployment

Engaging Application
Experiences



Improving the SaaS Experience

A woman with blonde hair, wearing a headset and a patterned top, is seated at a desk in the foreground, looking towards the camera. In the background, a man is seated at another desk, also wearing a headset and working on a computer. The office environment is modern with white desks and blue accents. The overall scene is overlaid with a blue gradient.

Intel and ISV
Collaboration

Intel® vPro™
Technology

Trusted Execution
Technology

Robson Technology &
Application Pinning



SaaSCon

SaaScon
The Business to Business event for Software as a Service

SETTING THE AGENDA
FOR AN INDUSTRY IN TRANSITION
SEPTEMBER 25-26, 2006
SAN FRANCISCO MARRIOTT IN SAN FRANCISCO, CA

www.saascon.com

Cornerstone Sponsor

Platinum Sponsors

Enhancing SaaS Through Platform Innovation
09/26/2006, 2:15 PM - 3:00 PM

Speaker:
Steve Grobman, Director, Strategic Planning - Digital Office Platform Division, Intel Corporation.

Software as a Service is changing the landscape of enterprise computing. Streaming OS and applications to clients promises to reduce total cost of ownership (TCO) of managing business clients. Through this change there are a number of challenges to insure secure and manageable clients. Intel has developed a number of advances in its server and business client lines of products to address these challenges. This session will highlight the challenges of SaaS, overview Intel platform innovations and Intel® vPRO™ technology, and demonstrate how these advances overcome the challenges and deliver on the promise of improved security and manageability for reduced TCO.

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





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... done efficiently

... for the customer

... with the industry



MobileMark*
2002 - 2005



EECoMark*



Amazing products

... done efficiently

... for the customer

... with the industry





Amazing products

... done efficiently

... for the customer

... with the industry





Amazing products

... done efficiently

... for the customer

... with the industry

