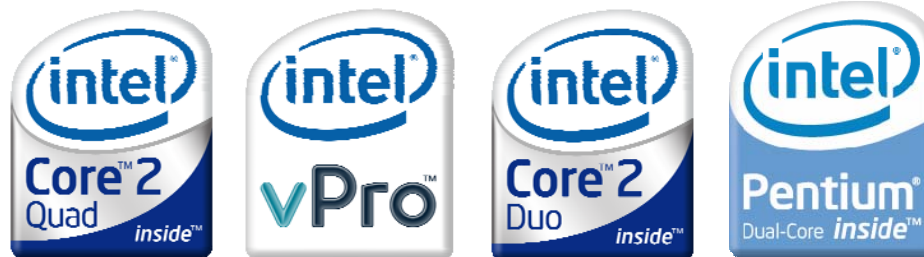




# Intel Processor Selling Guide

## *for Business*

August 2007



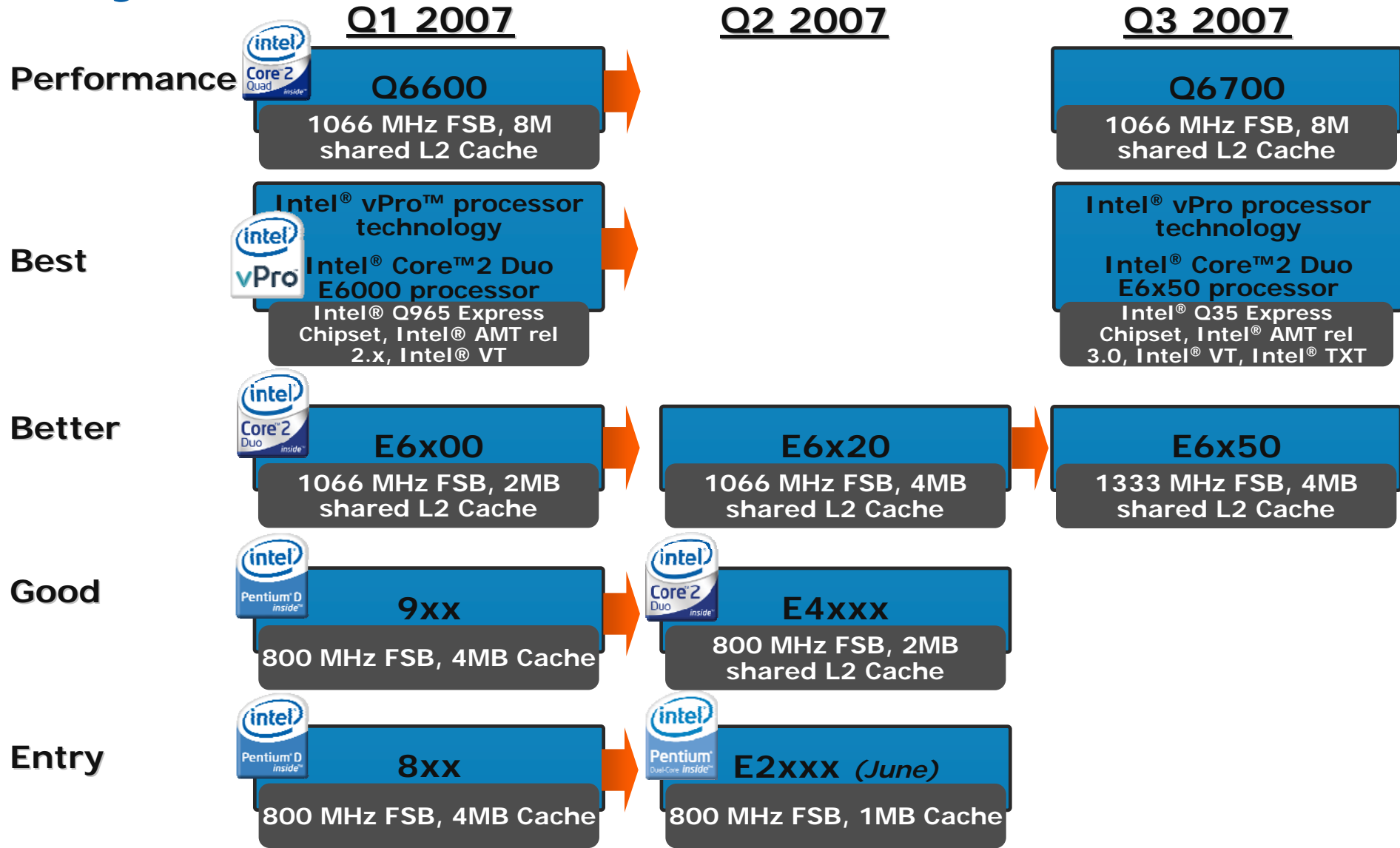
# Legal Information

- *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 <http://www.intel.com/performance/resources/index.htm>*
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# Key Messages

- Usage of security, productivity, communications and collaboration software continues to rise
- Multitasking usage is commonplace in today's business environment
- This combination of new applications and demanding usages requires the right processor technology to optimize the business computing environment
- Intel has industry leading solutions for all business desktop end-user needs

# Key Business Processor Transitions



# Business Desktop Products

Q2/Q3'07



## Intel® Core™2 Quad processor Q6000 sequence

Ideal choice for processor intensive, highly-threaded applications



## Intel® vPro™ processor technology

featuring Intel® Core™2 Duo processor E6000 sequence  
Proactive security, built-in manageability, next generation performance



## Intel® Core™2 Duo processor E6000 sequence

Industry leading performance with improved responsiveness for advanced usages



## Intel® Core™2 Duo processor E4000 sequence





















Industry leading performance and ground-breaking energy efficiency



## Intel® Pentium® dual-core processor E2000 sequence

Exceptional value from a trusted brand

# Recommend the best processor for your business customer

For user type	Recommend	Benefits	# of cores	Freq <sup>1</sup> (GHz)	Bus (MHz)	L2 Cache
<b>Power (includes professional)</b>	Q6000 sequence 	<ul style="list-style-type: none"> <li>✓35% faster professional image editing than prior gen 8</li> <li>✓41% faster 3D animation than competition 8</li> </ul>	4			
<b>Professional (includes Advances)</b>		<ul style="list-style-type: none"> <li>✓Reduce HW desk-side visits up to 60% and SW visits up to 90% 1</li> <li>✓48% faster than prior gen on prod benchmark 2</li> </ul>	2			
<b>Advanced (includes Evolving)</b>	E6000 sequence 	<ul style="list-style-type: none"> <li>✓20% faster than comp top bin on prod. Benchmark 2</li> <li>✓Run foreground apps 18% faster than prior gen with virus scan in the background 4</li> </ul>	2			
<b>Evolving (includes Basic)</b>	E4000 sequence 	<ul style="list-style-type: none"> <li>✓25% faster image content creation vs comp 5</li> <li>✓18% faster productivity benchmark than prior gen 2</li> </ul>	2			
<b>Basic</b>	E2000 sequence 	<ul style="list-style-type: none"> <li>✓28% faster spreadsheets than prior gen 6</li> <li>✓27% faster productivity benchmark than comp 2</li> </ul>	2			

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1,2,4,5,6, 8 See details in addendum.

# Intel® Core™2 Quad processor Q6000 sequence

*Power User: Ideal choice for processor intensive, highly-threaded applications*

## The Power User

...demands unrivaled performance to run the most advanced, highly-threaded financial modeling, engineering, design, web development, animation or video/audio applications

Feature	Benefit
4 cores	Unrivaled responsiveness with highly threaded applications
8MB shared L2 Cache	Unmatched responsiveness with advanced apps and usages
1066Mhz FSB	Fast transfers to/from memory for the most advanced usages

## Professional Image Editing

**35%** Faster than prior gen<sup>8</sup>      **23%** Faster than competition<sup>8</sup>

Intel® Core™2 Quad processor Q6600 vs. Intel® Pentium® D processor 960      Intel® Core™2 Quad processor Q6600 vs. AMD® Athlon®64 X2 6000+

## 3D Animation

**58%** Faster than prior gen<sup>8</sup>      **41%** Faster than competition<sup>8</sup>

Intel® Core™2 Quad processor Q6600 vs. Intel® Pentium® D processor 960      Intel® Core™2 Quad processor Q6600 vs. AMD® Athlon®64 X2 6000+

\* Other names and brands may be claimed as the property of others  
8 See configuration and test details in backup.

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# Intel® vPro™ processor technology

*Professional User: Proactive security, built-in manageability, next generation performance*

## The Professional User

...is concerned about cross functional/boundary productivity and collaboration, professional content development, protection from viruses, spam, spyware and data loss, minimal disruptions due to PC issues and high quality VoIP

Feature	Benefit
Intel® AMT <sup>3</sup>	Diagnose/repair PCs off hours or even if powered down or OS down
4MB shared L2 Cache	Superior responsiveness with advanced apps and usages
1066Mhz FSB	Faster transfers to/from memory for the most advanced usages
64-bit	Ready for 64-bit software

### Business Disruptions

Up to **90%** reduction in software related desk-side visits<sup>1</sup>      Up to **60%** reduction in hardware related desk-side visits<sup>1</sup>

### "Day in the Life" Productivity

**64%** Faster than prior generation<sup>2</sup>  
(SYSmark\* 2007)  
Intel® Core™2 Duo E6700 vs Intel® Pentium® D processor 945

\* Other names and brands may be claimed as the property of others  
1,2 See configuration and test details in backup.  
3 See notices and disclaimers in backup.

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# Intel® Core™2 Duo processor E6000 sequence

*Advanced User: Industry leading performance with improved responsiveness for advanced usages*

## The Advanced User

...is concerned about cross functional/boundary productivity & collaboration, business process streamlining, advanced content development, protection from viruses, spam, spyware, data loss and, high quality VoIP

Feature	Benefit
4MB shared L2 Cache	Superior responsiveness with advanced apps and usages
1066Mhz FSB	Fast transfers to/from memory for the most advanced usages
64-bit	Ready for 64-bit software

### Virus Scan

**18%** Faster foreground apps with virus scan in the background than prior gen<sup>4</sup>

Intel® Core™2 Duo processor E6300 vs Intel® Pentium® D processor 945

### "Day in the Life" Productivity

**38%** Faster than prior generation<sup>2</sup> (SYSmark\* 2007) **11%** Faster than competition's highest bin<sup>2</sup> (SYSmark\* 2007)

Intel® Core™2 Duo processor E6420 vs Intel® Pentium® D processor 945

Intel® Core™2 Duo E6420 vs AMD Athlon® 64 X2 6000+

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<sup>2,4</sup> See configuration and test details in backup.

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# Intel® Core™2 Duo processor E4000 sequence

*Evolving User: Industry leading performance and ground-breaking energy efficiency*

## The Evolving User

...is concerned about cross functional productivity, business process streamlining, essential content creation, protection from viruses and data loss and high quality VoIP

Feature	Benefit
2MB shared L2 Cache	Great responsiveness with advanced applications
800MHz FSB	Fast transfers to/from memory for advanced usages
64-bit	Ready for 64-bit software

### Extracting Images for a Presentation

**14%** Faster than prior generation<sup>5</sup>      **>25%** Faster than competition<sup>5</sup>

Intel® Core™2 Duo processor E4300 vs Intel® Pentium® D processor 925

Intel® Core™2 Duo processor E4300 vs AMD Athlon® 64 X2 4200+

### "Day in the Life" Productivity

**29%** Faster than prior gen<sup>2</sup> (SYSmark\* 2007)      **20%** Faster than competition<sup>2</sup> (SYSmark\* 2007)

Intel® Core™2 Duo processor E4400 vs Intel® Pentium® D processor 925

Intel® Core™2 Duo processor E4400 vs AMD Athlon® 64 X2 4200+

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2,5 See configuration and test details in backup.

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# Intel® Pentium® dual-core processor E2000 sequence

## *Basic User: Proven technology and exceptional value*

### The Basic User

...is concerned about personal productivity, core content creation, essential communications and, protection from viruses

Feature	Benefit
1MB cache	Responsiveness with key productivity apps and usages
800MHz FSB	Fast transfers to/from memory for improved performance
64-bit	Ready for 64-bit software

### Spreadsheet Productivity

**28%** Faster than prior generation<sup>6</sup>  
**27%** Faster than competition<sup>6</sup>

Intel® Pentium® dual-core E2160 vs Intel® Pentium® D processor 925  
 Intel® Pentium® dual-core E2160 vs AMD Athlon® 64 X2 3800+

### "Day in the Life" Productivity

**10%** Faster than prior gen<sup>2</sup>  
**10%** Faster than competition<sup>2</sup>

(SYSmark\* 2007)  
 Intel® Pentium® dual-core E2160 vs Intel® Pentium® D processor 925  
 Intel® Pentium® dual-core E2160 vs AMD Athlon® 64 X2 3800+

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

<sup>2,6</sup> See configuration and test details in backup.

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# Backup

# The Intel® Core™2 Duo processor E6000 sequence brings more compute resources to your dual-core experience

Intel dual-core feature scaling		
Feature	E4400	E6420
Speed (GHz)	2	2.13
FSB (MHz)	800	1066
Cache (MB)	2	4
Supports Intel® vPro™ technology	No	Yes
Intel® Virtualization Technology	No	Yes

**Spreadsheet Productivity**

**59% Faster<sup>7</sup>**

Intel® Core™2 Duo processor E6420 vs Intel® Core™2 Duo processor E4400

**Document Productivity**

**14% Faster<sup>7</sup>**

Intel® Core™2 Duo processor E6420 vs Intel® Core™2 Duo processor E4400

- **Faster FSB for improved data transfers to and from system memory**
- **Double the shared cache for increasingly data intensive applications**
- **Isolate a portion of a managed PC to perform system upgrades and maintenance without interrupting the end-user with Intel® VT**

<sup>7</sup> See configuration and test details in backup.

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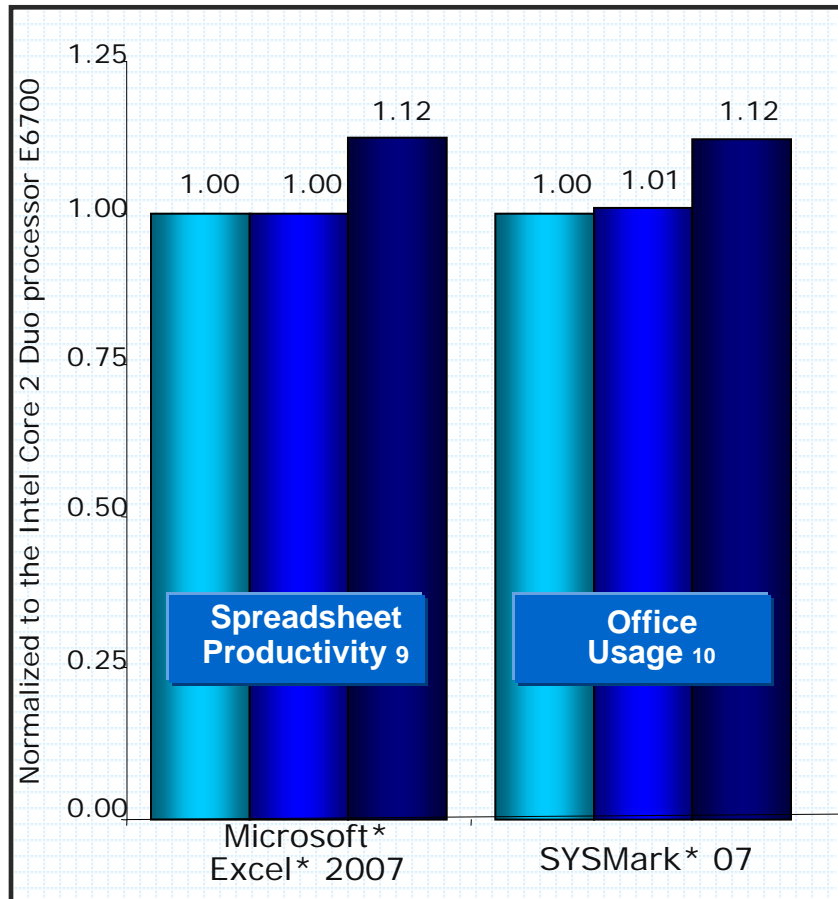
# The Intel® Core™2 Duo processor E6000 sequence brings more compute resources to your dual-core experience (and now with 1333 FSB)

**1333 Front Side Bus!**

Feature	E4400	E6420	E6700	E6750	E6850
Speed (GHz)	2	2.13	2.66	2.66	3.00
FSB (MHz)	800	1066	1066	1333	1333
Cache (MB)	2	4	4	4	4
Supports Intel® vPro™ technology	No	Yes	Yes	Yes	Yes
Intel® Virtualization Technology	No	Yes	Yes	Yes	Yes

# Intel® Core™2 Duo processors: Performance Capabilities

- Intel® Core™2 Duo processor E6850 (3 GHz, 4MB shared L2, 1333 MHz FSB)
- Intel® Core™2 Duo processor E6750 (2.66 GHz, 4MB shared L2, 1333 MHz FSB)
- Intel® Core™2 Duo processor E6700 (2.66 GHz, 4MB shared L2, 1066 MHz FSB)



9, 10 See details in addendum.

# The Intel® Core™2 Duo processor E4000 sequence delivers next generation dual-core performance

Intel dual-core feature scaling		
Feature	E2160	E4400
Speed (GHz)	1.80	2
FSB (MHz)	800	800
Cache (MB)	1	2

**Spreadsheet Productivity**

**23% Faster<sup>7</sup>**

Intel® Core™2 Duo processor E4400 vs Intel® Core™2 Duo processor E2160

**Document Productivity**

**30% Faster<sup>7</sup>**

Intel® Core™2 Duo processor E4400 vs Intel® Core™2 Duo processor E2160

- Double the shared cache for increasingly data intensive applications

<sup>7</sup> See configuration and test details in addendum. 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 the performance of Intel products, visit <http://www.intel.com/performance/resources/index.htm>



# Addendum 1

- 1 Case Study with Intel® vPro processor technology, "An Analysis of Early Testing of Intel® vPro™ processor technology in Large IT Departments. Charles LeGrand, CHL Global Associates and Mark Salamasic, University of Texas, Dallas, March 2007. Savings numbers are audited results of 10 pilots averaging a 40K PC install based conducted by Electronic Data Systems.
- 2 **Source:** Intel. **Configurations:** Intel® Core™2 Duo processor E6700 (2.66 GHz, 4MB shared L2, 1066 MHz FSB), Intel® Core™2 Duo processor E6420 (2.13 GHz, 4MB shared L2, 1066 MHz FSB), Intel® Core™2 Duo processor E4400 (2.0 GHz, 2MB shared L2, 800 MHz FSB), Intel® Core™2 Duo processor E4300 (1.80 GHz, 2MB shared L2, 800 MHz FSB), Intel® Pentium® dual-core processor E2160 (1.80 GHz, 1MB shared L2, 800 MHz FSB), Intel® Pentium® D processor 945 (3.40 GHz, 2x2MB total L2, 800 MHz FSB), Intel® Pentium® D processor 925 (3 GHz, 2x2MB total L2, 800 MHz FSB). Processors as listed above. Intel: (for Conroe based parts) Intel® Q965 Express Chipset, Intel® Desktop Board DQ965GF, Chipset Install file 8.1.1.1010, BIOS version CO96510J.86A.5882, Intel® GMA 3000 graphics, Graphics Driver: Intel® G965 15.2.3.1244, Micron\* 2x1GB DDR2-667 5-5-5-15, Seagate\* Barracuda\* 320GB SATA 7200 RPM, Hard Disk Driver: Intel® Matrix Storage driver 6.2.1.1002\_PV, Windows\* Vista x86 Ultimate RTM build 6000 (for Netburst based parts) Intel® GMA 950 Express Chipset, Intel® Desktop Board D945GPM, Chipset Install File 8.1.1.1010, BIOS version NT94510J.86A.4076 Intel® GMA 3000 graphics, Graphics Driver: Intel® G965 15.2.3.1244, Micron\* 2x1GB DDR2-667 5-5-5-15, Seagate\* Barracuda\* 320GB SATA 7200 RPM, Hard Disk Driver: Intel® INF 8.1.1.1010, Windows\* Vista x86 Ultimate RTM build 6000, Enhanced Intel® SpeedStep Technology disabled. **AMD:** AMD\* Athlon\*64 X2 6000+ (3 GHz, 2x1MB L2), AMD\* Athlon\*64 X2 4200+ (2.20 GHz, 2x512KB L2), AMD\* Athlon\*64 X2 3800+ (2 GHz, 2x512KB L2), ATI\* RS690G, ASUS\* M2A-VM, Chipset Install File ATI\* Catalyst\* 7.4, BIOS Asus\* M2A-VM 402, ATI\* Radeon\* Express 1250, Graphics driver ATI\* Catalyst\* 7.4, Micron\* 2x1GB DDR2-667 5-5-5-15, Seagate\* Barracuda\* 320GB SATA 7200 RPM Hard Disk Driver: ATI\* Catalyst\* 7.4, Windows\* Vista\* Ultimate 32 RTM build 6000, AMD\* Cool n' Quiet disabled. **Test:** SysMark\*07
- 3 **Intel® Active Management Technology** requires the platform to have an Intel(R) AMT-enabled chipset, network hardware and software, as well as connection with a power source and a corporate network connection. With regard to notebooks, Intel AMT may not be available or certain capabilities may be limited over a host OS-based VPN or when connecting wirelessly, on battery power, sleeping, hibernating or powered off. For more information, see <http://www.intel.com/technology/iamt>.
- 4 **Intel® Core™2 Duo processor E6300** (2MB L2 Cache, 1.86GHz, 1066MHz FSB), Intel® Q965 Express Chipset, Intel® DG965WH board, Intel chipset install file 8.0.1.1002, Corsair\* 2x1GB DDR2800 5-5-5-15, Intel® Matrix Storage Manager 6.0.0.1022 RAID-0 ready, **Intel® Pentium® D processor 945** (2x2MB L2, 3.4GHz, 800MHz FSB), Intel® 945G Express Chipset on Intel D945GPM board, Intel chipset software install file 7.2.2.1007, Micron\* 2x1GB DDR 667 5-5-5-15, Intel Matrix Storage Manager 5.5.0.1035 RAID-0 ready, all with ATI\* Radeon X850 XT PCIe, ATI Catalyst Driver 6.6 driver 8.263.0.0, Maxtor\* DiamondMax\* 10 300GB NCQ Serial ATA 7200RPM, Window\* XP Professional Build 2600 NTFS, DirectX 9.0c. **Run description:** average response time of Word\* 2003 building 2 documents by pasting in 5 bmp images and 3 excel tables and changing content layout while running McAfee\* VirusScan\* 10.0.21 in the background.
- 5 **Intel® Core™2 Duo E4300** (2MB L2, 1.8GHz, 800MHz FSB), or **Intel® Pentium® D processor 945** (2x2MB L2, 3.4GHz, 800MHz FSB), Intel® DQ965GF, Intel® Graphics Media Accelerator 3000, Chipset installation file 8.0.1.1002, Intel Matrix Storage Manager 6.0.0.1022 RAID-0 Ready, AMD Athlon 64 X2 4200+ (2x512KB, 2.2GHz), ECS RS485M-M with Radeon\* Xpress 200 driver 5.10, ATI\* Radeon Xpress 1150, all with Micron\* 2x1GB DDR2 800 5-5-5-18, Maxtor\* DiamondMax10 300GB NCQ SATA 7200RPM, Windows\*XP Build 2600 SP2 NTFS, DirectX 9.0c. **Run description:** Adobe\* After Effects\* 7.0 applying filters and effects to 12 different multimedia input files and saving the output as an uncompressed AVI file.
- 6 **Intel® Pentium® D processor 925** (3GHz, 800MHz FSB, 2x2MB L2 Cache), **Intel® Pentium® Dual-Core processor E2160** (1.80GHz, 800MHz FSB, 1MB L2 Cache) and both with Intel® D946GZIS, Intel® Graphics Media Accelerator 950, Chipset Install file 8.1.1.1010, Micron\* 2x512MB DDR2 667 5-5-5-15, Seagate\* Barracuda\* 320GB NCQ SATA2 7200RPM, Windows\* Vista\* Ultimate RTM Build 6000 NTFS. **AMD\* Athlon\* 64 X2 3800+** (2GHz, 2x512KB L2 Cache), Asus\* M2A-VM, Integrated ATI\* X1200 Series, Micron\* 2x512MB DDR2 667 5-5-5-15, Seagate\* Barracuda\* 320GB NCQ SATA2 7200RPM, Windows\* Vista\* Ultimate RTM Build 6000 NTFS. **Run description:** Microsoft\* Excel\* 2007 executing approximately 28,000 sets of calculations using common calculations and functions.
- 7 **Source:** Intel. **Configurations:** Intel® Core™2 Duo processor E6420 (2.13GHz, 1066MHz FSB, 4MB L2 Cache), Intel® Core™2 Duo processor E4400 (2.00GHz, 800MHz FSB, 2MB L2 Cache), Intel® Pentium® Dual-Core processor E2160 (1.80GHz, 800MHz FSB, 1MB L2 Cache) **E4400 vs. E2160 Comparison:** Intel® D946GZIS, Intel® Graphics Media Accelerator 950, Chipset Install file 8.1.1.1010, Micron\* 2x512MB DDR2 667 5-5-5-15, Seagate\* Barracuda\* 320GB NCQ SATA2 7200RPM, Windows\* Vista\* Ultimate RTM Build 6000 NTFS. **E6420 vs. E4400 Comparison** E6420 with Intel DG965GF-Guardfish Rev. 304 Dual channel DS Micron 2GB (2x1GB) DDRII 800 5-5-5-18 with integrated 965G graphics + MXT DM10 300GB NCQ SATA (MB BIOS 4713. Vid and E4400 with Intel DG965WH-Westchester Rev. 304 Dual channel DS Micron 2GB (2x1GB) DDRII 800 5-5-5-18 with nVidia Geforce 7300 LE graphics + MXT DM10 300GB NCQ SATA (MB BIOS 12) **Run Descriptions:** Microsoft\* Excel\* 2007 executing approximately 28,000 sets of calculations using common calculations and functions, Microsoft\* Word\* 2007 comparing two 1085 page documents, comparing differences, and creating a new document showing only the differences.
- 8 **Source:** Intel. **Configurations:** Intel Core 2 Quad processor Q6600 (8MB L2, 2.40GHz, 1066MHz FSB), Intel P965 Express Chipset on Intel Desktop Board DP965LT, Chipset Install file 8.0.0.1008, Windows XP Default ICH8 SATA drive, Micron\* 2x1GB DDR2 800 5-5-5-18, Maxtor\* DiamondMax\*10 300GB, NCQ SATA 7200RPM, nVidia\* GeForce 8800 GX, nVidia\* Forceware 97.02, Windows\*XP Professional Build 2600 SP2 NTFS, DirectX 9.0c, **AMD\* Athlon\* 64 X2 6000+** (2x1 L2, 2.60 GHz) nVidia\* nForce\* 5900 on Asus M2N32-SLI Deluxe Board, nVidia nForce driver Smbus 4.52, Micron\* 2x1GB DDR2 800 5-5-5-18, Maxtor\* DiamondMax\*10 300GB, NCQ SATA 7200RPM, nVidia\* GeForce 8800 GX, nVidia\* Forceware 97.02, Windows\*XP Professional Build 2600 SP2 NTFS, DirectX 9.0c, **AMD\* Athlon\* 64 X2 6000+** (2x1 L2, 2.60 GHz) nVidia\* nForce\* 5900 on Asus M2N32-SLI Deluxe Board, nVidia nForce driver Smbus 4.52, Micron\* 2x1GB DDR2 800 5-5-5-18, Maxtor\* DiamondMax\*10 300GB, NCQ SATA 7200RPM, nVidia\* GeForce 8800 GX, nVidia\* Forceware 97.02, Windows\*XP Professional Build 2600 SP2 NTFS, DirectX 9.0c. **Run Descriptions:** **3D Animation:** Autodesk\* 3ds Max\*8.0 the workload used in this document is called Dragon\_Character\_Rig.max. Workload consists of a scene rendered at 1920x1080. One frame is rendered. **Professional Image Editing:** Adobe\* Photoshop\* CS2 filtering 5 pictures ranging in size from 11.3 to 14.4MB with a resolution of 2592x1944. Then uses web gallery feature to automatically create a web page with thumbnails and photos. Photos edited in 30 minutes. The render options are Atmospheric, Effects and Displacement. Advanced lighting options are also set.

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# Addendum 1 (cont.)

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**Source:** Intel, July 2007 **Configuration: Processors as listed above,** , Intel® P35 Chipset on Asus\*P5K3 motherboard, BIOS P5K3 0413. Chipset Install file 8.1.1.1013, ELPIDA\* 2x1GB DDR3 1066 7-7-7-20, Seagate\* Barracuda\*, 320GB NCQ SATA 7200RPM, Intel® Matrix Storage driver 7.50.1014, nVidia\* GeForce\* 8800 GTX, 768GB GDDRIII, nVidia\* Forceware\* 158.24, Windows\* Vista\* Ultimate 32 RTM Build 6000 NTFS. *Performance tests and ratings are measured using specific systems and/or components and reflect approximate performance of Intel products as measured by those tests. Any difference in system hardware, software, or configuration may affect actual performance. Buyers should consult other sources of information to evaluate performance of systems or components they are considering purchasing. For more information on performance tests and performance of Intel products, visit [www.intel.com/performance](http://www.intel.com/performance)*

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**Source:** Intel, July 2007 **Configuration: Processors as listed above, 1333 MHz FSB parts:** Intel® P35 Chipset on Asus\*P5K3 motherboard, BIOS P5K3 0413. **1066 MHz FSB part:** Intel® Desktop Board DG965WH, BIOS MQ96510J.86A.1676. **All systems:** Chipset Install file 8.1.1.1013, ELPIDA\* 2x1GB DDR3 1066 7-7-7-20, Seagate\* Barracuda\*, 320GB NCQ SATA 7200RPM, Intel® Matrix Storage driver 7.50.1014, nVidia\* GeForce\* 8800 GTX, 768GB GDDRIII, nVidia\* Forceware\* 158.24, Windows\* Vista\* Ultimate 32 RTM Build 6000 NTFS. *Performance tests and ratings are measured using specific systems and/or components and reflect approximate performance of Intel products as measured by those tests. Any difference in system hardware, software, or configuration may affect actual performance. Buyers should consult other sources of information to evaluate performance of systems or components they are considering purchasing. For more information on performance tests and performance of Intel products, visit [www.intel.com/performance](http://www.intel.com/performance)*

