



Product Brief  
Intel® Viiv™ Technology

## Maximize your home entertainment experience.



Intel® Viiv™ technology is Intel's brand for in-home entertainment PCs designed to transform how consumers manage, share, and enjoy a broad and growing assortment of movies, programs, music, games, and photos. Intel Viiv technology is a combination of hardware and software technologies that helps enable a great entertainment experience. The Intel® Viiv™ brand makes it easier for consumers to identify PCs designed for the digital home, plus on-line services, applications and peripherals that have been designed and verified for digital entertainment.<sup>1</sup>

## Essential ingredients for entertainment PCs.

Intel® Viiv™ technology-based PCs let consumers take control of their digital entertainment experience.

Combining the convenience and remote control<sup>^</sup> of many consumer electronics devices with the rich entertainment available to PCs over the Internet or content from their personal collection, users can enjoy the best of both worlds.

With Intel Viiv Technology-based PCs users can listen to digital music, run photo slideshows, even stream media directly from the Intel Viiv technology-based PC in one room through a networked digital media device in another.<sup>1</sup>

Intel Viiv technology enables users to share their favorite digital media content with friends and family. The dual-core processing power of an Intel Viiv technology-based PC adds further benefits by enabling multiple people to access entertainment from the same PC—even from different rooms. For example, one user can be playing a game on the PC while someone else streams music over the home network to a verified networked media device in another room.<sup>1</sup> And with an Intel Viiv technology-based PC powered by the new Intel® Core™2 Duo desktop processor, users get up to a 40% performance increase over existing desktop processors for industry leading performance and amazing new entertainment experiences.<sup>3</sup>

Intel Viiv technology-based PCs feature:

### Performance for high definition entertainment

Intel® Viiv™ technology is now available with the Intel® Core™2 Duo Processor, enabling consumers to get 40% performance increase and over 40% more energy savings out of their PC than before.<sup>3</sup>

- Intel® Core™2 Duo Processor
- Intel® Core™2 Extreme Processor

Other Intel dual-core processors supported:

- Intel® Core™ Duo Processor
- Intel® Pentium® Processor Extreme Edition
- Intel® Pentium® D Processor

### Consumer electronics-like features for simplified entertainment

- Instant on/off like a TV or DVD player<sup>2</sup>
- Easy navigation through a simple user interface to access content<sup>^</sup>
- Smaller, quieter and more stylish systems
- One PC that can replace many of your home electronics such as your CD Player, DVD player and more (some systems)
- Support for up to 7.1 surround sound
- High definition video playback capabilities (up to 1080i/1080p)
- Crystal clear video playback with sharper images and precise color control with Intel® Clear Video Technology<sup>4</sup>
- Improved realism and lifelike 3D effects for gaming with Intel® Graphics Media Accelerator 3000<sup>4</sup>
- Up to 1 Gigabit Ethernet networking

### Connectivity for the latest online entertainment

- Support for capabilities in a remoted environment
- Can help set up verified connected devices<sup>1</sup>
- Access to an increasing number of verified entertainment services and applications worldwide



## Enjoy your favorite entertainment with Intel® Viiv™ technology-based PCs.

Intel is working with a growing selection of the world's biggest entertainment providers to bring you access to movies, downloaded TV, music, games and photos like never before! Best of all, the list is growing all the time.

Movies + TV	Music	Games	Photos
<p>Download hot movies and TV shows on demand, with some services that allow you to begin watching while downloading! It's the new way to enjoy your favorite entertainment.</p> <ul style="list-style-type: none"> <li>▪ Movies</li> <li>▪ TV Series</li> <li>▪ News</li> <li>▪ Sports Packages</li> </ul>	<p>Find your favorite songs in a flash. Organize your entire music collection in one place! Or choose services that offer both subscription and purchase options. You get your music the way you like it.</p> <ul style="list-style-type: none"> <li>▪ Music tracks</li> <li>▪ Radio</li> <li>▪ Music videos</li> <li>▪ Concerts</li> <li>▪ Karaoke</li> </ul>	<p>Access games on demand—and on your TV. Pick from arcade classics, today's hits and family favorites! Leave your monitor behind and step up to a new level of fun.</p> <ul style="list-style-type: none"> <li>▪ AAA games</li> <li>▪ Mainstream games</li> <li>▪ Casual games</li> </ul>	<p>Enjoy your photos on the big screen. Organize them, edit them, share them with friends! You're always a click away from your favorite moments and memories.</p> <ul style="list-style-type: none"> <li>▪ Digital photo album</li> <li>▪ Photo service</li> <li>▪ Home movie creation</li> </ul>
<p><b>Services available by:<sup>*</sup></b> ESPN*, Movielink*, MTV Overdrive*</p>	<p><b>Services available by:<sup>*</sup></b> Napster*, AOL*, Tiscali*</p>	<p><b>Services available by:<sup>*</sup></b> Ubisoft*, Square Enix*, T-Online*</p>	<p><b>Services available by:<sup>*</sup></b> Adobe*, Pinnacle*, Ulead*</p>

<sup>\*</sup>Availability of services varies by region. See the complete list of entertainment providers and information on what services may be available in your region at [www.intel.com/viiv/entertainment.htm](http://www.intel.com/viiv/entertainment.htm)

# Intel® Viiv™ technology-based PCs feature the latest Intel® technologies.

						Intel Technologies																												
Processor	Processor Number	Clock Speed (GHz)	Front Side Bus (MHz)	L2 Cache	Cores/Threads	Intel® Dual-Core Technology	Intel® Virtualization Technology (Intel® VT) <sup>5</sup>	Hyper-Threading Technology (HT Technology) <sup>7</sup>	Enhanced Intel SpeedStep® Technology <sup>6</sup>	Intel® EM64T5	Execute Disable Bit	Socket	Chipset	Memory Type	# DIMM/Max Memory	External Graphics	Storage Interface/Ports	Storage Technology	Remote Management Technology	Audio	Memory Enhancement	Graphics/Memory Controller & Accelerator												
Intel® Core™2 Extreme Processor	X6800	2.93	1066	4 MB	2 / 2	■	■	■	■	■	■	LGA 775	Intel® P965 Express Chipsets with ICH8DH	DDR2-800/677/533	4 DIMM per channel/8 GB	PCI Express* x16 <sup>2</sup>	SATA (3 Gbps)/6, External SATA (eSATA)	Intel® Matrix Storage Technology <sup>3</sup> (NCQ, RAID 0, 1, 5, 10)	Intel® Active Management Technology <sup>1</sup>	Intel® High Definition (HD) <sup>4</sup> , Audio4 AC'97	Intel® Flex Memory Technology	82P965												
						■	■	■	■	■	■		■	■	SATA (3 Gbps)/4 PATA/1		Intel® Memory Pipeline Technology				82975X													
Pentium® Processor Extreme Edition	965	3.73	1066	2x2 MB	2 / 4	■	■	■	■	■	■	LGA 775	Intel® 975X Express Chipsets with ICH7-DH (available on processor 965 & 955) & Intel® 955X Express Chipsets with ICH7-DH (available on processor 840)	DDR2 667/533/400	2 DIMM per channel/4GB/8 GB	PCI Express* x16 (2 x 8) <sup>2</sup>	SATA (3 Gbps)/4 PATA/1	Intel® Matrix Storage Technology <sup>3</sup> (NCQ, RAID 0, 1, 5, 10)	Intel® Active Management Technology <sup>1</sup>	Intel® High Definition (HD) <sup>4</sup> , Audio4 AC'97	Intel® Memory Pipeline Technology	82975X/82955X												
	955	3.46				■	■	■	■	■	■										■		■	■	■	■	■	■	■					
	840	3.20	800	2x1 MB		■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■			
Intel® Core™2 Duo Processor	E6700	2.66	1066	4 MB	2 / 2	■	■	■	■	■	■	LGA 775	Intel® G965 and P965 Express Chipsets with ICH8DH	DDR2-800/677/533	4 DIMM per channel/8 GB	PCI Express* x16 <sup>2</sup>	SATA (3 Gbps)/6, External SATA (eSATA)	Intel® Matrix Storage Technology <sup>3</sup> (NCQ, RAID 0, 1, 5, 10)	Intel® Active Management Technology <sup>1</sup>	Intel® High Definition (HD) <sup>4</sup> , Audio4 AC'97	Intel® Flex Memory Technology	Intel® Graphics Media Accelerator 3000 Intel® GMA 3000) with Intel® Clear Video Technology (available on Intel® 965 Express Chipset Only)												
	E6600	2.40				■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■		
	E6400	2.13		2 MB		■	■	■	■	■	■										■	■	■	■	■	■	■	■	■	■	■	82975X		
	E6300	1.86				■	■	■	■	■	■										■	■	■	■	■	■	■	■	■	■	■			
	T 7600	2.33	667	4 MB		■	■	■	■	■	■	■	PGA & BGA	Intel® Mobile 945GT or 945GM Express Chipsets with ICH7MDH	DDR2 667/533/400	2 DIMM per channel/4 GB	PCI Express* x16 <sup>2</sup>	SATA (3 Gbps)/4 PATA/1	Intel® Matrix Storage Technology <sup>3</sup> (NCQ, RAID 0, 1, 5, 10)	Intel® Active Management Technology <sup>1</sup>	Intel® High Definition (HD) <sup>4</sup> , Audio4 AC'97	Intel® Flex Memory Technology	82945G, Intel® Graphics Media Accelerator 950											
	T 7400	2.16				■	■	■	■	■	■	■										■		■	■	■	■	■	■	■	■			
	T 7200	2.00		2 MB		■	■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■	
	T 5600	1.83				■	■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■	
T 5500	1.66	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■													
Intel® Core™ Duo Processor	T2700	2.33	667	2 MB	2 / 2	■	■	■	■	■	■	PGA & BGA	Intel® Mobile 945GT or 945GM Express Chipsets with ICH7MDH	DDR2 667/533/400	2 DIMM per channel/4 GB	PCI Express* x16 <sup>2</sup>	SATA (3 Gbps)/4 PATA/1	Intel® Matrix Storage Technology <sup>3</sup> (NCQ, RAID 0, 1, 5, 10)	Intel® Active Management Technology <sup>1</sup>	Intel® High Definition (HD) <sup>4</sup> , Audio4 AC'97	Intel® Flex Memory Technology	82945G, Intel® Graphics Media Accelerator 950												
	T2600	2.16				■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■			
	T2500	2.00				■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■	■	
	T2400	1.83				■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■	■	■
	T2300	1.66				■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■	■	■
Pentium® D Processor	960	3.60	800	2x2 MB	2 / 2	■	■	■	■	■	■	LGA 775	Intel® 975X, 955X, 945P, 945G Express Chipsets with ICH7-DH	DDR2 667/533/400	2 DIMM per channel/4GB/8 GB (available on Intel® 975X/955X)	PCI Express* x16 (2 x 8) <sup>2</sup>	SATA (3 Gbps)/4 PATA/1	Intel® Matrix Storage Technology <sup>3</sup> (NCQ, RAID 0, 1, 5, 10)	Intel® Active Management Technology <sup>1</sup>	Intel® High Definition (HD) <sup>4</sup> , Audio4 AC'97	Intel® Memory Pipeline Technology, (available on Intel® 975X/955X), Intel Flex Memory Technology	82975X/82955X/82945P/82945G Intel® Graphics Media Accelerator 950 (available on Intel® 945G)												
	950	3.40				■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■		
	945					■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■		
	940	3.20				■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■	■	
	930	3.00				■	■	■	■	■	■										■		■	■	■	■	■	■	■	■	■	■	■	■
	925			■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■											
	920	2.80		■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■										
	915			■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■										
	820			2x1 MB		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■										

<sup>1</sup>Intel® Active Management Technology requires the platform to have an Intel® AMT-enabled chipset, network hardware and software. The platform must also be connected to a power source and an active LAN port. Intel Active Management Technology is currently supported with the Intel® 82573E LAN device and Intel® ICH7 (82801GB) or ICH7R (82801GR). <sup>2</sup>Six PCI Express\* x1 device/peripheral support available when combined with the Intel® 82801GR (ICH7R) or 82801GH (ICH7DH) I/O Controllers. <sup>3</sup>Intel® Matrix Storage Technology requires a motherboard with the Intel® 82801GR (ICH7R) or 82801FR (ICH6R) or Intel® 82801GH (ICH7DH) I/O Controller Hub System. The system must also have the RAID controller in the BIOS enabled and the Intel Matrix Storage Manager software driver installed. <sup>4</sup>The Dolby® PC Entertainment Experience is available exclusively on systems with Intel® HD Audio. <sup>5</sup>Intel® Viiv™ technology platforms, Intel® Virtualization Technology, and Intel®

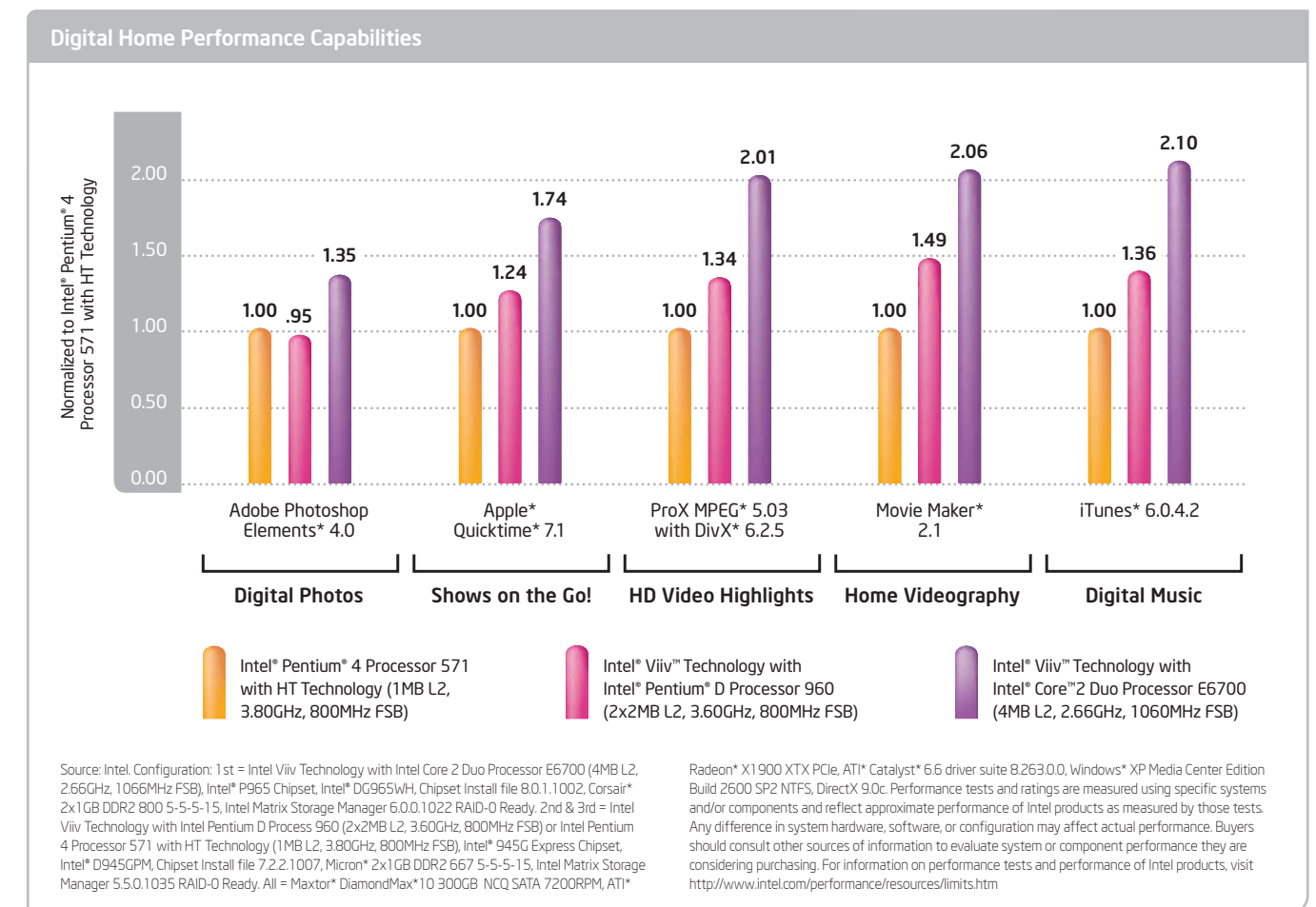
Extended Memory 64 Technology (Intel® 64) require a computer system with a processor, chipset, BIOS, enabling software and/or operating system, device drivers and applications designed for these features. Performance will vary depending on your configuration. Contact your vendor for more information. <sup>6</sup>Enhanced Intel SpeedStep® Technology for specified units of the Pentium processor formerly code-named Presler and Cedar Mill available Q2/06. See the Processor Spec Finder at <http://processorfinder.intel.com> or contact your Intel representative for more information. <sup>7</sup>Hyper-Threading Technology requires a computer system with an Intel® processor supporting Hyper-Threading Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See <http://www.intel.com/info/hyperthreading/> for more information including details on which processors support HT Technology.

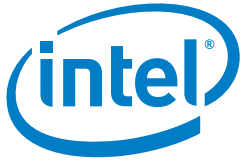
# Intel® Viiv™ technology-based PCs deliver great digital entertainment experiences.

Features	Benefits
<b>Intel's latest dual-core processors</b> Intel® Core™2 Duo Processor Intel® Core™2 Extreme Processor Intel® Core™ Duo Processor Intel® Pentium® Processor Extreme Edition Intel® Pentium® D Processor	<b>Intel dual-core processing for enhanced performance and responsiveness for digital home usage models</b> <ul style="list-style-type: none"> <li>Advanced performance with now available Intel® Core™2 Duo processor for multiple streams and simultaneous uses. Up to 40% faster than previous desktop processors and more than 40% more energy efficient.<sup>3</sup></li> <li>Dual-core processing power supporting multiple users enjoying entertainment from the same PC at the same time and performing multiple tasks simultaneously</li> <li>Ideal for 1080i/1080p high definition video content playback</li> <li>Optimized for small form factor consumer electronics entertainment PCs</li> <li>Excellent thermal and acoustic performance to help enable smaller, quieter systems<sup>3</sup></li> </ul>
<b>Intel® G965 and P965 Express Chipsets with ICH8-DH</b> <b>Intel® 975X, 955X, 945P, 945G Express Chipsets with ICH7-DH</b> <b>Intel® Mobile 945GT or 945GM Express Chipsets with ICH7MDH</b>	<b>Enhances the digital home experience with outstanding system performance</b> <ul style="list-style-type: none"> <li>Intel® Graphics Media Accelerator 3000 available on the Intel G965 Express Chipset delivers enhanced 3D realism and lifelike effects for an excellent gaming experience<sup>4</sup></li> <li>Intel® Clear Video Technology delivers enhanced video playback with sharper images and precise color control enabling user adjustment of hue, saturation, brightness, and contrast plus support to connecting the PC to the latest digital display interfaces and TV tuner cards.<sup>4</sup></li> <li>Intel® Graphics Media Accelerator 950 available on the Intel 945G Express Chipset delivers sharp images and vivid colors to HDTVs and applications including mainstream gaming and video<sup>4</sup></li> <li>1066/800 MHz system bus and dual-channel DDR2 memory support delivers fast system-level performance with scalability for future processor innovations</li> <li>PCI Express* interface delivers enhanced bandwidth and supports high-performance graphics cards</li> <li>Serial ATA (SATA) supports 4 SATA ports, each providing up to 3 GB/s high-speed storage interface</li> </ul>
<b>Intel® High Definition Audio</b> 5.1 audio codec 5.1 jacks or SPDIF connector and 2.1 jacks	<b>Home theater quality with support for 5.1 to 7.1 surround sound</b> <ul style="list-style-type: none"> <li>Dedicated bandwidth for smooth audio playback</li> <li>Audio multi-streaming</li> <li>Performance to handle demanding media content</li> <li>Simplifies home theatre set-up by including the right 5.1 audio codec and 5.1 speaker jacks</li> </ul>
<b>Intel® PRO Client LAN</b>	<b>Up to 1 Gigabit Ethernet networking</b> <ul style="list-style-type: none"> <li>Integrated 10/100 or 10/100/1000 MAC out of the box ready for broadband Internet content</li> </ul>
<b>Intel® Matrix Storage Technology (RAID)</b>	<b>New level of performance and enhanced reliability</b> <ul style="list-style-type: none"> <li>Faster on-disk access. Improves performance editing home videos or loading files and games (disk intensive retrieval applications)</li> <li>Protects personal memories and valuable digital photos, video and music data when two Hard Disk Drives (HDDs) are present, automatic backup and restore of consumers' media files with RAID 0, 1, 5, 10</li> </ul>
<b>Intel® Quick Resume Technology Drivers (Intel® QRTD)</b>	<b>Allows users to access digital entertainment quickly with instant on/off functionality<sup>2</sup></b> <ul style="list-style-type: none"> <li>Turn on/off your PC just like you would your TV or DVD player</li> <li>PC appears "visually off" but still can be used as a media server in the home</li> <li>Enables access to content from networked devices<sup>1</sup> even if PC is in visual off mode</li> </ul>
<b>Intel® Hub Connect Technology</b>	<b>Enables set up of verified connected devices coming to market through 2006<sup>1</sup></b>
<b>Intel® Viiv™ Media Server</b>	<b>When combined with digital media adapters, Intel Viiv technology-based PCs can distribute and manage content throughout the user's home network<sup>1</sup></b> <ul style="list-style-type: none"> <li>Intel® Viiv™ Media Library creates a catalog of digital content that can be remotely browsed, accessed and played through networked devices in the home<sup>1</sup></li> <li>Intel® Smart Streaming Technology translates un-protected content into a variety of media formats to those supported by connected verified devices</li> <li>Software Premium Content Module (SPCM) Media Server plug-in enables secure streaming of protected content from the PC to the networked devices<sup>1</sup> (Microsoft® Windows Media® supported)</li> <li>Remote user interface (RUI) service enables users to access the user interfaces (UIs) of verified applications and services remotely from networked devices<sup>1</sup></li> <li>Intel® Viiv™ Zone is the "media portal" for verified network media devices to access a "catalog" of content from verified online services and applications on the Intel® Viiv™ technology-based PC<sup>1</sup></li> </ul>

## Performance benchmarks.

Intel® Viiv™ technology with the Core™2 Duo Processor E6700 provides great performance on widely used applications for slideshows, digital video, digital audio and portable media.





[www.intel.com/go/viiv\\_info](http://www.intel.com/go/viiv_info)

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<sup>^</sup>Remote may be sold separately.

<sup>1</sup>Verified devices and services will vary, and content restrictions may apply. Wireless and network performance varies with specific hardware and software configurations, usage, and environmental interference. Use a wired connection for improved performance with video and other media. May require TV tuner card and/or remote which may be sold separately. Instant on/off feature works after initial boot, when activated. Intel network setup software currently requires a verified router and DHCP ("Always On") or PPPoE broadband connectivity protocols. Check router and your current ISP specifications before purchasing. See [www.intel.com/go/viiv\\_info](http://www.intel.com/go/viiv_info) for more information.

<sup>2</sup>After initial boot, when activated

<sup>3</sup>Performance based on SPECint\*\_rate\_base2000 (2 copies) and energy efficiency based on Thermal Design Power (TDP), comparing Intel® Core™2 Duo E6700 to Intel® Pentium® D Processor 960. Actual performance may vary. See [www.intel.com/performance](http://www.intel.com/performance) for more information.

<sup>4</sup>Not available on all systems—check manufacturers specs

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