A blurred background image of a woman with dark hair, looking upwards and to the right. She is wearing a white top. The background is out of focus, showing other people and lights in what appears to be a public space or event.

Software Performance Guide

The Software Performance Guide describes the benchmarks tested, details of the software applications used in the benchmarks, and explains the relevance of the results from four different application types or categories:

Desktop Overall

Office Productivity

Digital Media

3D Gaming

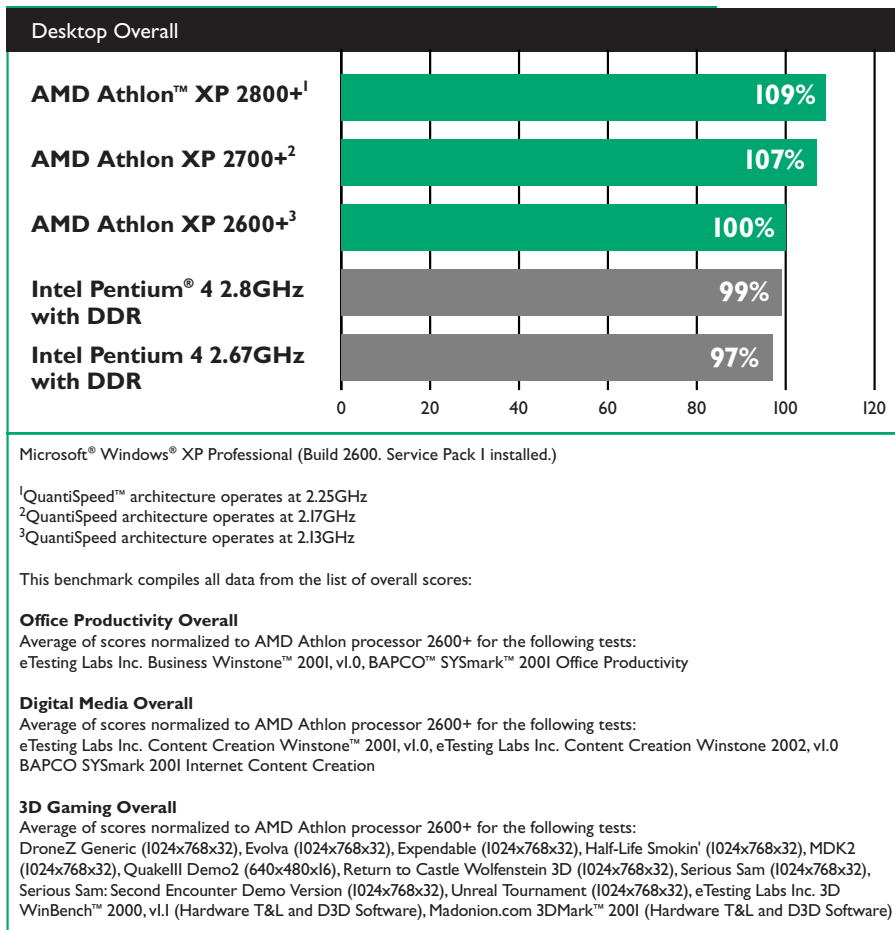
AMD Athlon™ XP Processor 2800+

AMD has generated the below benchmark data. PricewaterhouseCoopers, a global professional services firm, has independently audited the performance results of the AMD Athlon™ XP processor 2800+ displayed in the graph below. Visit the AMD website at www.amd.com to view the data and audit results.

Desktop Overall

Desktop Overall

The AMD Athlon™ XP processor is designed to deliver the ultimate computing experience for everything you do – whether it's working at the office, editing digital images or video, or 3D gaming. The AMD Athlon XP processor gives you extreme performance for today's demanding applications and for tomorrow's innovations as well.

**Benchmark System Configuration:**

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nForce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nForce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

*BIOS is not publicly available

** EIDE Driver not publicly available

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845GBV, BIOS version RG84510A.86A.0014.P07, Chipset: Intel i845G Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Intel Pro/100 VE Network Connection (integrated on motherboard) - included with operating system, Sound Card: Intel Soundmax Integrated Digital Audio (integrated on motherboard), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Analog Device, v5.12.1.3500, 3/18/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

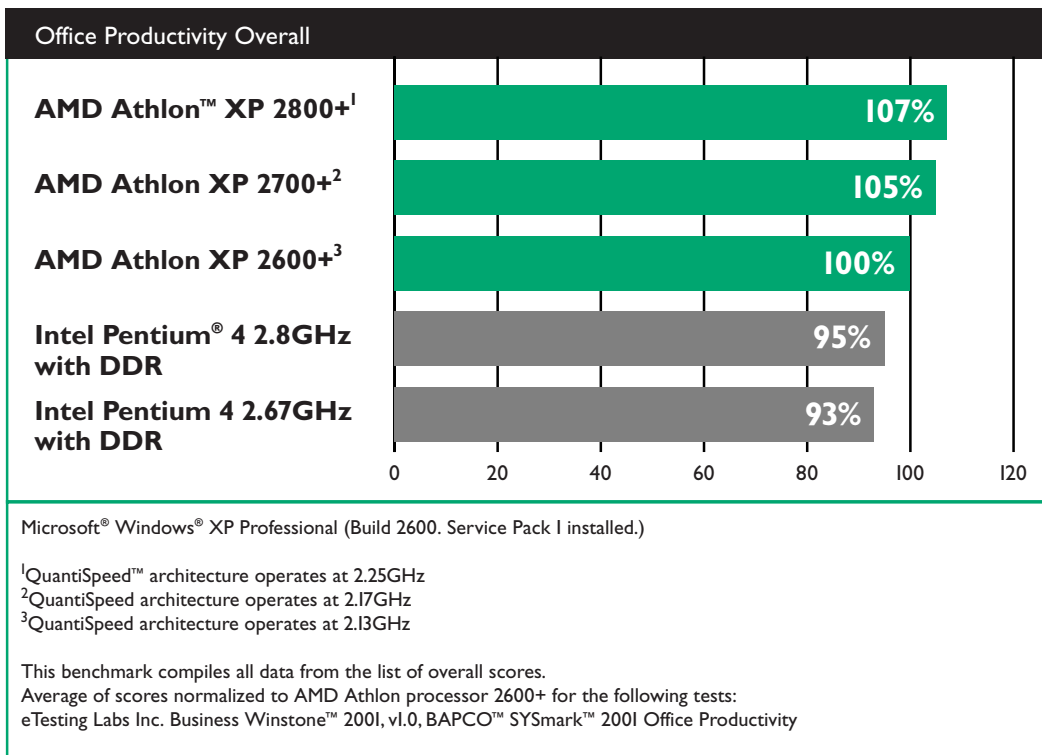
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Office Productivity

Office Productivity Overall

The AMD Athlon™ XP processor runs multiple background applications seamlessly which helps to minimize work stoppage and interruption, allows you to be more efficient when multitasking, and improves overall office application productivity.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nForce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nForce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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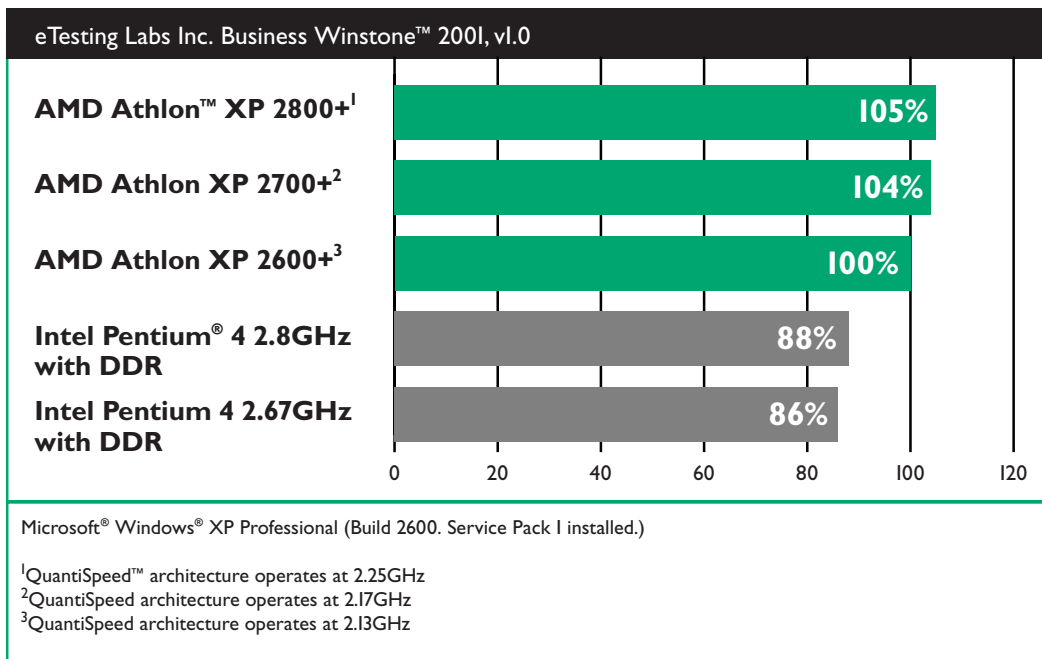
AMD Athlon™ XP Processor 2800+

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Office Productivity

eTesting Labs Inc. Business Winstone™ 200I, v1.0

AMD Athlon™ XP processor-based systems quickly load and execute the business applications you use everyday helping you realize significant productivity gains.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nForce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nForce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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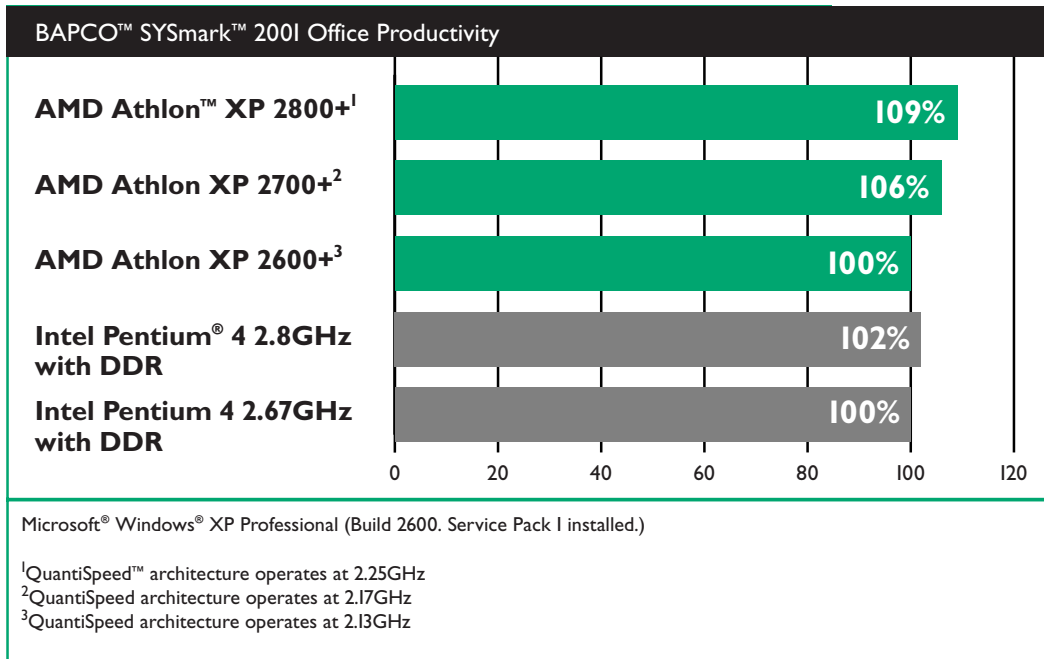
AMD Athlon™ XP Processor 2800+

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Office Productivity

BAPCO™ SYSmark™ 2001 Office Productivity

The AMD Athlon™ XP processor is designed to improve system responsiveness, increase productivity, and provide a better multitasking experience.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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Intel Pentium™ 4 processor-based systems: Hardware: Motherboard: Intel D845GBV, BIOS version RG84510A.86A.0014.P07, Chipset: Intel i845G Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Intel Pro/100 VE Network Connection (integrated on motherboard) - included with operating system, Sound Card: Intel Soundmax Integrated Digital Audio (integrated on motherboard), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Analog Device, v5.12.1.3500, 3/18/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

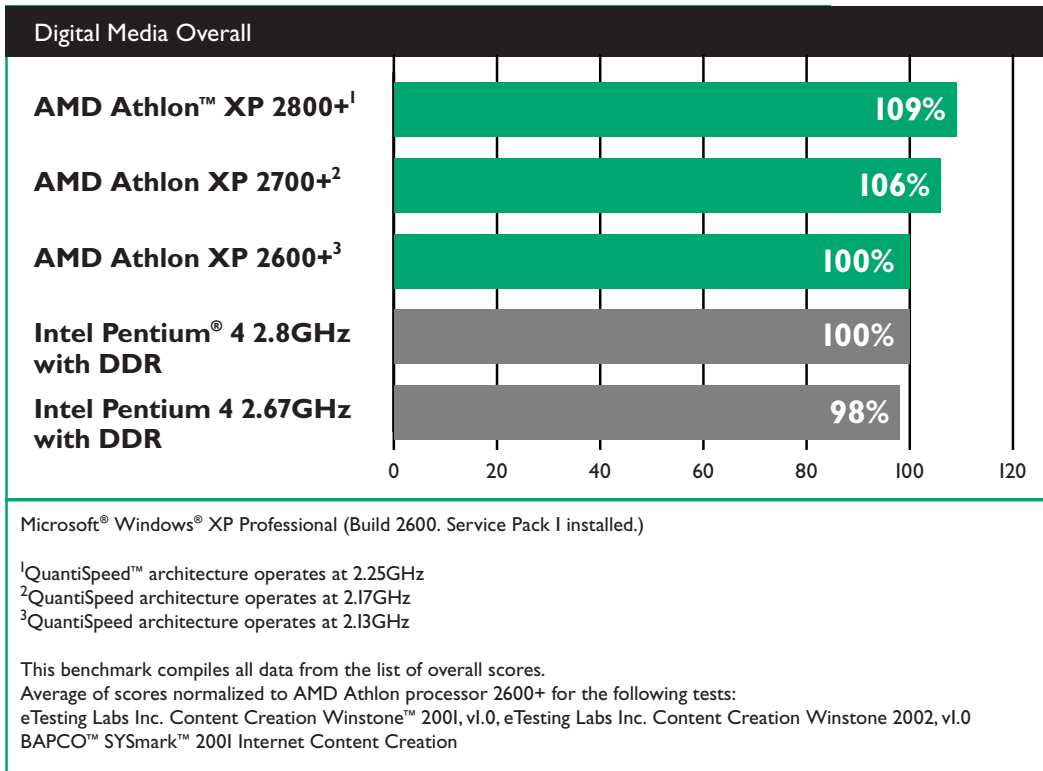
AMD Athlon™ XP Processor 2800+

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Digital Media

Digital Media Overall Benchmark

The AMD Athlon™ XP processor delivers cutting-edge performance. Create, edit, manipulate, and render your digital media quickly and smoothly so you can save time and produce outstanding work.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. Drivers: EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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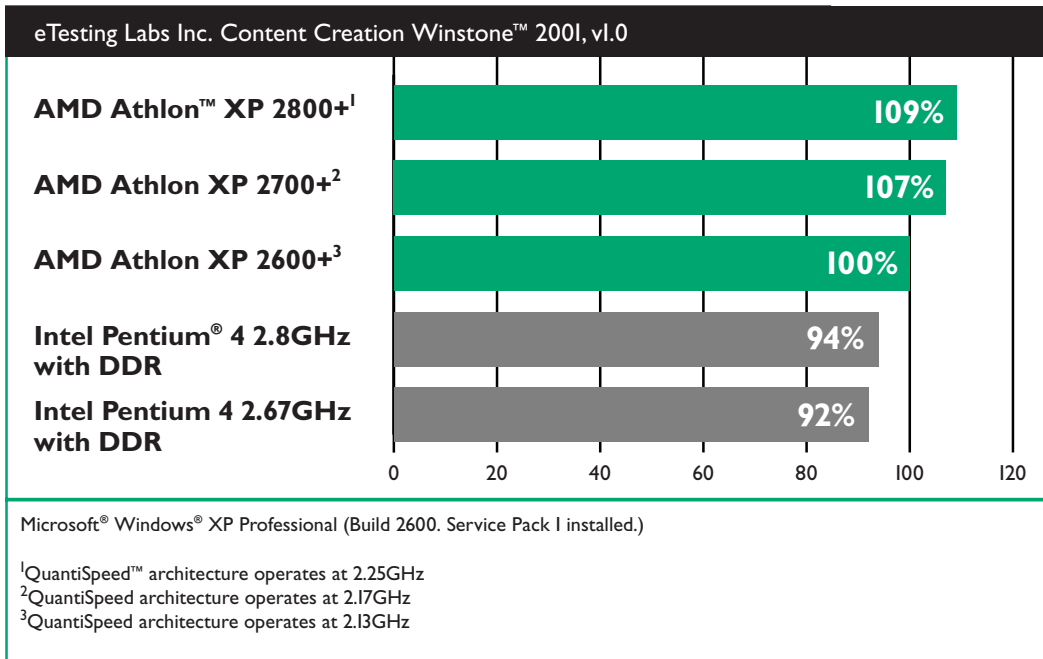
AMD Athlon™ XP Processor 2800+

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Digital Media

eTesting Labs Inc. Content Creation Winstone™ 200I, v1.0

The AMD Athlon™ XP processor with 3DNow!™ Professional technology offers rapid results when encoding, decoding, or editing digital media and increases graphics rendering performance, reducing the time you spend waiting.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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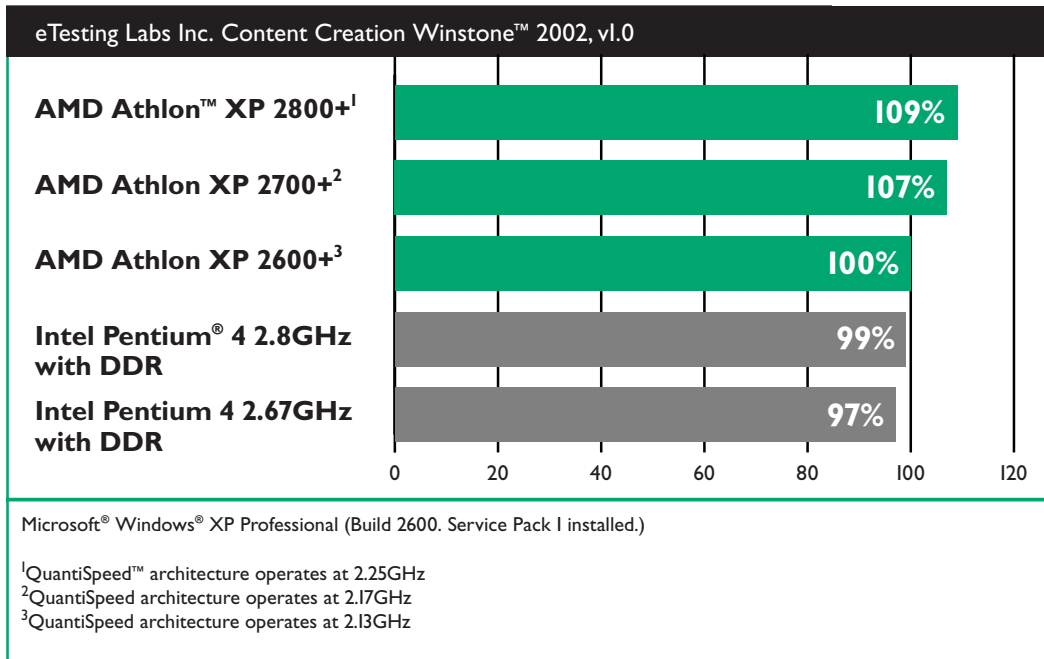
AMD Athlon™ XP Processor 2800+

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Digital Media

eTesting Labs Inc. Content Creation Winstone™ 2002, v1.0

The AMD Athlon™ XP processor provides top performance to speed business collaboration, edit professional quality video and audio, and help you take advantage of new and emerging technologies.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

AMD Athlon™ XP processor-based systems: **Hardware:** Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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Intel Pentium™ 4 processor-based systems: **Hardware:** Motherboard: Intel D845GBV, BIOS version RG84510A.86A.0014.P07, Chipset: Intel i845G Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Intel Pro/100 VE Network Connection (integrated on motherboard) - included with operating system, Sound Card: Intel Soundmax Integrated Digital Audio (integrated on motherboard), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Analog Device, v5.12.1.3500, 3/18/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

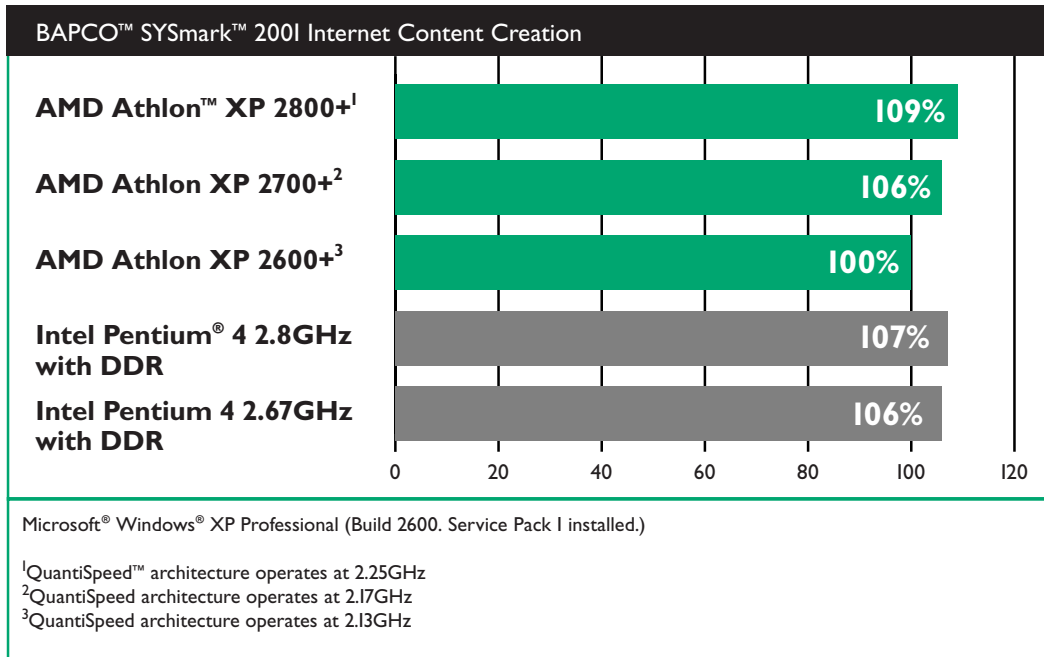
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Digital Media

BAPCO™ SYSmark™ 2001 Internet Content Creation

The AMD Athlon™ XP processor offers quick response times when manipulating audio, video, and imaging files, providing you with the ultimate digital media experience.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nForce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nForce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 1024x768, 7/25/2002, 32-bit, 100Hz.

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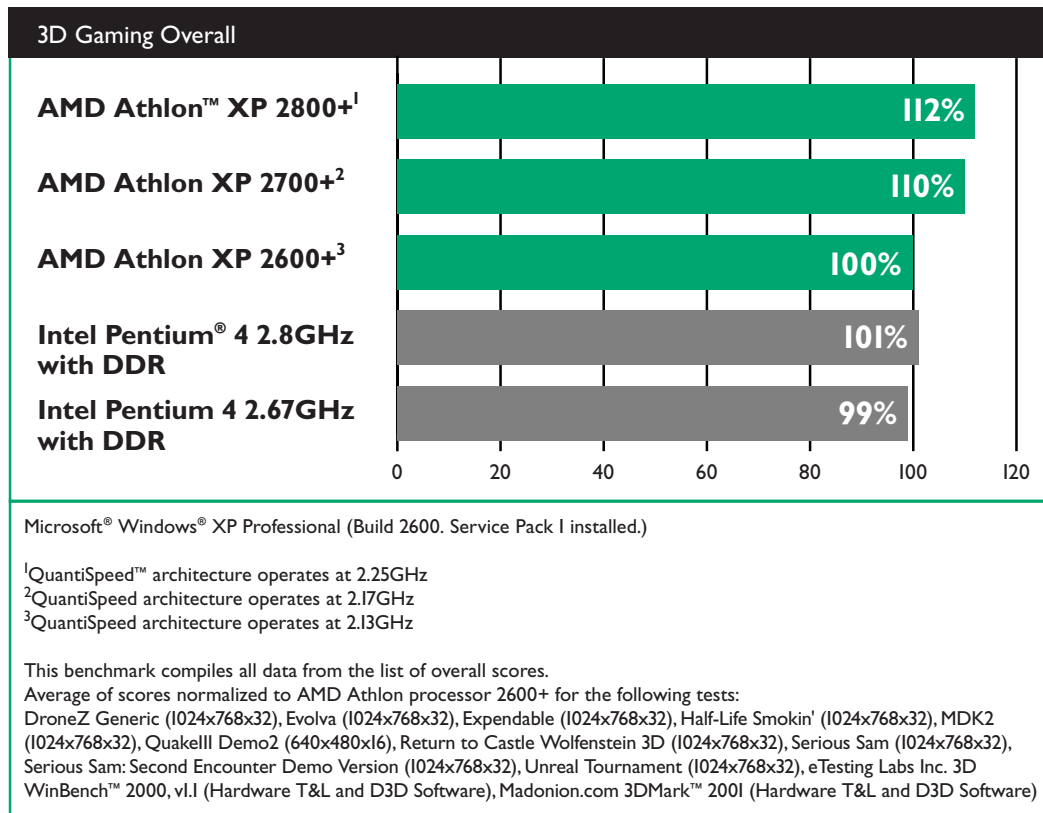
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3D Gaming

3D Gaming Overall Benchmark

The AMD Athlon™ XP processor was designed with high performance in mind and the results in 3D Gaming are obvious. With smooth 3D graphics generation, crystal-clear audio playback, and instant computer response to player's actions, you'll get the ultimate gaming experience.

**Benchmark System Configuration:**

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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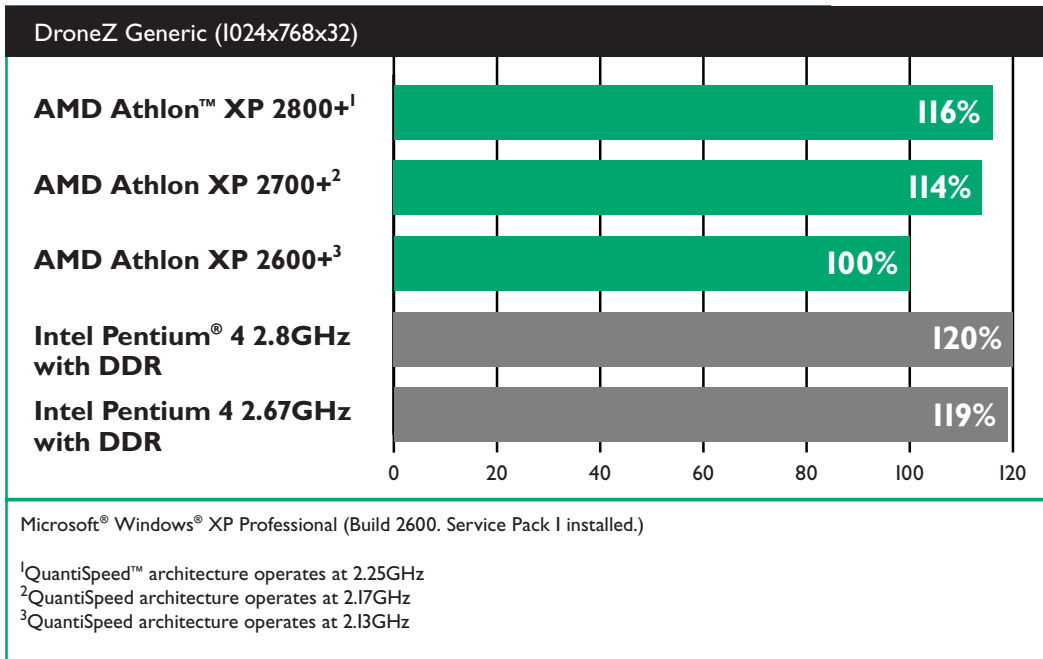
AMD Athlon™ XP Processor 2800+

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3D Gaming

DroneZ Generic (1024x768x32)

Experience top quality detail and realistic visual effects when using a system with an AMD Athlon™ XP processor. You'll find yourself completely immersed in the visual 3D world of DroneZ Generic.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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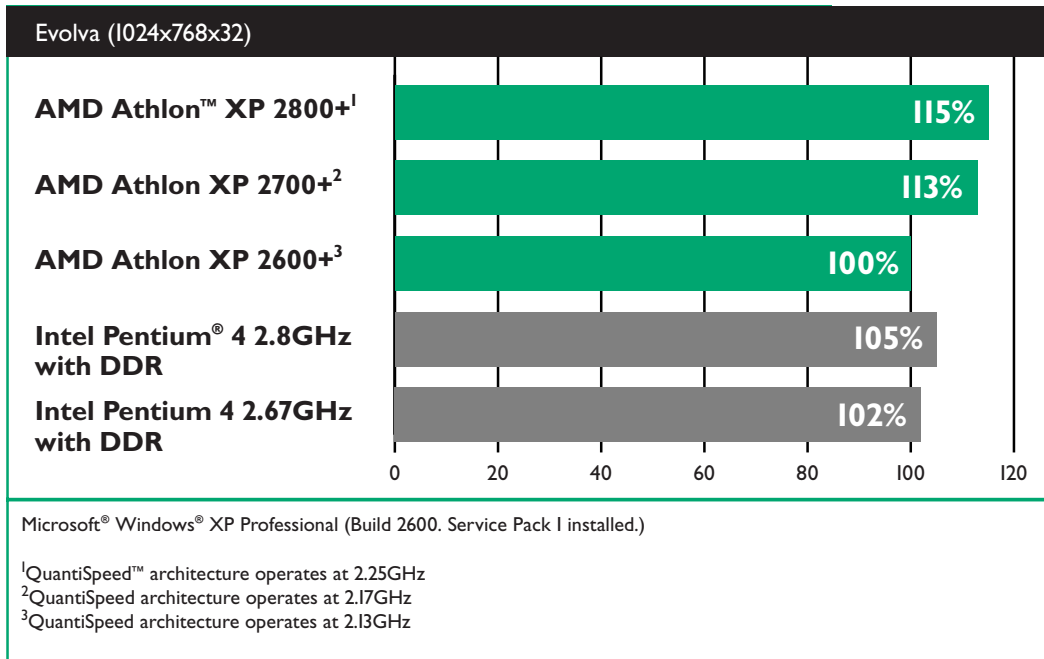
AMD Athlon™ XP Processor 2800+

AMD has generated the below benchmark data. PricewaterhouseCoopers, a global professional services firm, has independently audited the performance results of the AMD Athlon™ XP processor 2800+ displayed in the graph below. Visit the AMD website at www.amd.com to view the data and audit results.

3D Gaming

Evolve (1024x768x32)

Surround sound, audio playback, and sound effects add to the realism of the games – the high performance AMD Athlon™ XP processor is designed to deliver it.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB – integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

*BIOS is not publicly available
 ** EIDE Driver not publicly available

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845GBV, BIOS version RG84510A.86A.0014.P07, Chipset: Intel i845G Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Intel Pro/100 VE Network Connection (integrated on motherboard) - included with operating system, Sound Card: Intel Soundmax Integrated Digital Audio (integrated on motherboard), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Analog Device, v5.12.1.3500, 3/18/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

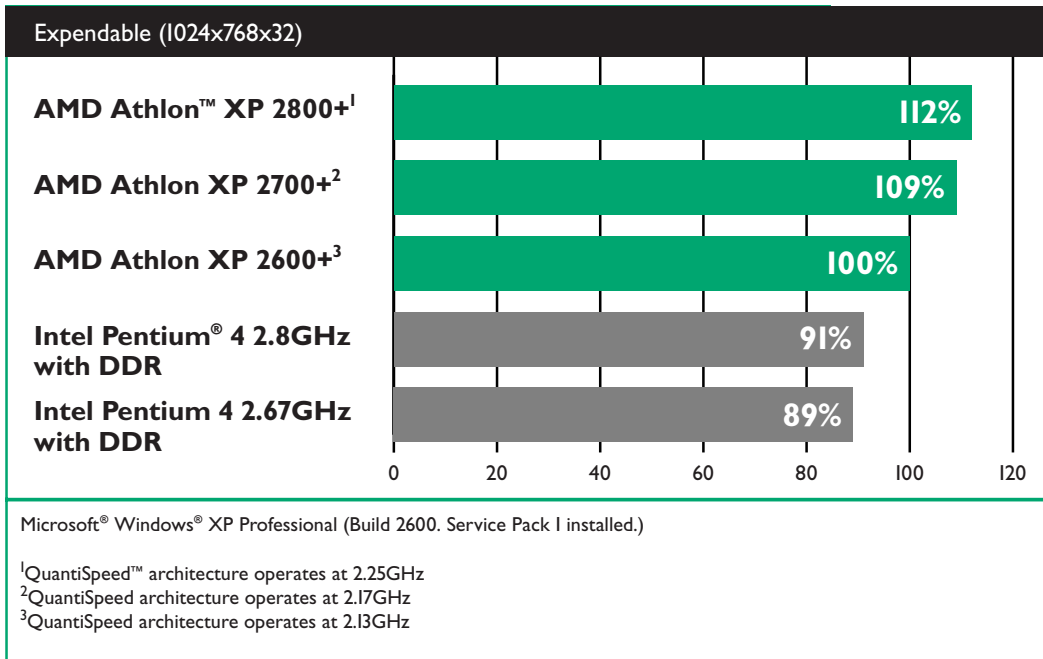
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3D Gaming

Expendable (1024x768x32)

The ultimate gaming experience is what you'll get with the AMD Athlon™ XP processor. 3DNow!™ Professional technology makes it possible for end users to experience the top-quality detail and realistic visual effects that make gaming so exciting.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 1024x768, 7/25/2002, 32-bit, 100Hz.

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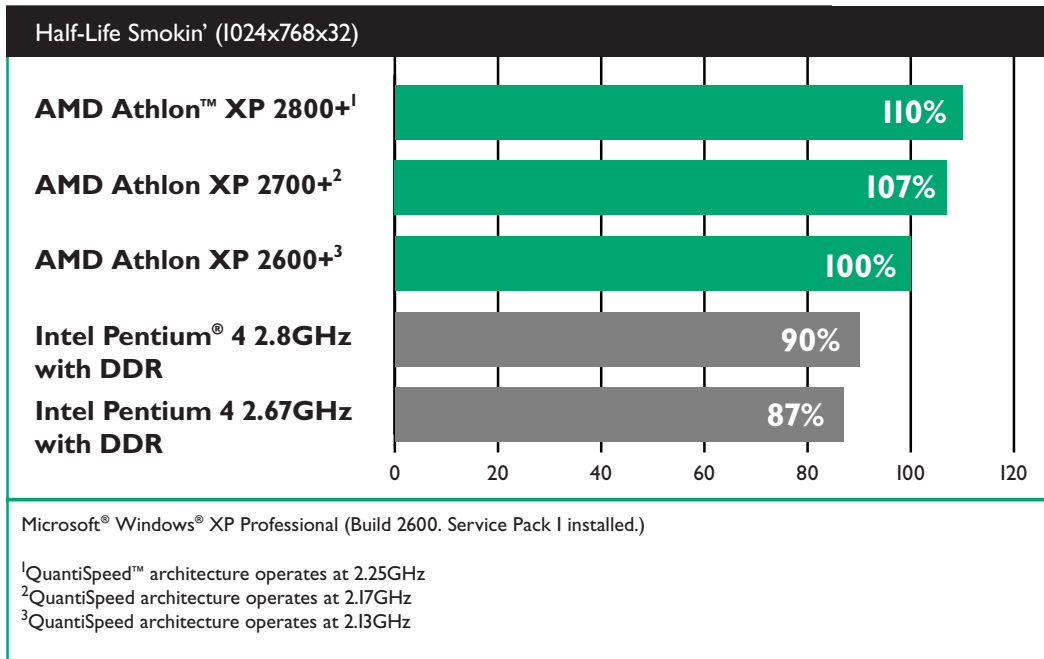
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3D Gaming

Half-Life Smokin' (1024x768x32)

Get immersed in Half-Life Smokin' with outstanding audio effects. Surround sound, audio playback, and sound effects add to the realism of the games and the AMD Athlon™ XP processor is designed to deliver it.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 1024x768, 7/25/2002, 32-bit, 100Hz.

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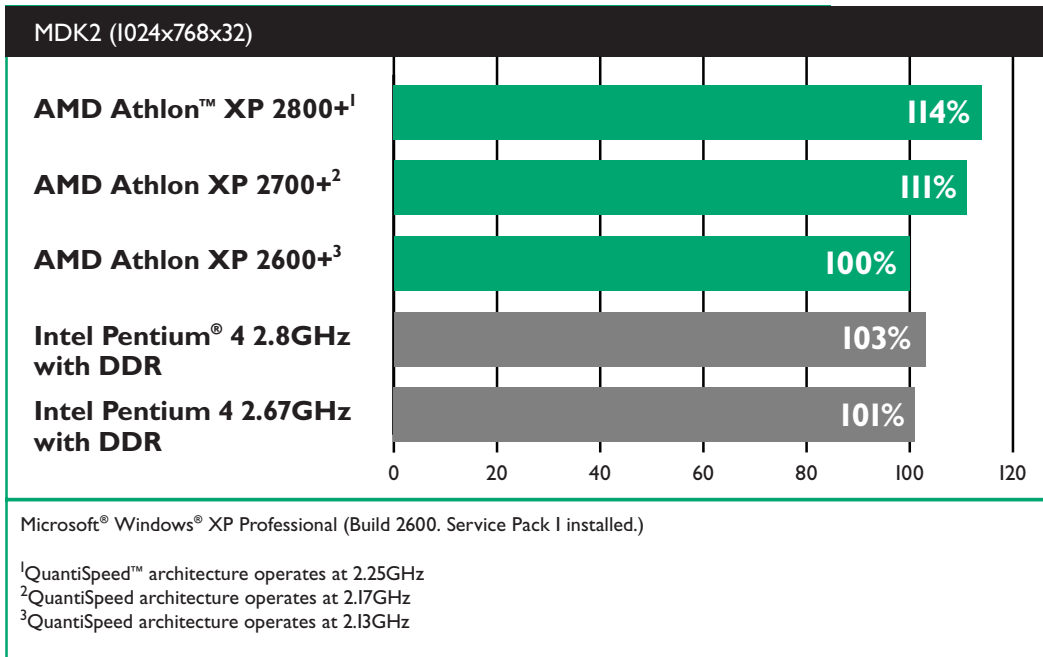
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3D Gaming

MDK2 (1024x768x32)

The AMD Athlon™ XP processor delivers higher frames per second; leaving 3D gamers with smoother 3D graphics generation, crystal-clear audio playback, and instant computer response to their actions.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB – integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 1024x768, 7/25/2002, 32-bit, 100Hz.

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** EIDE Driver not publicly available

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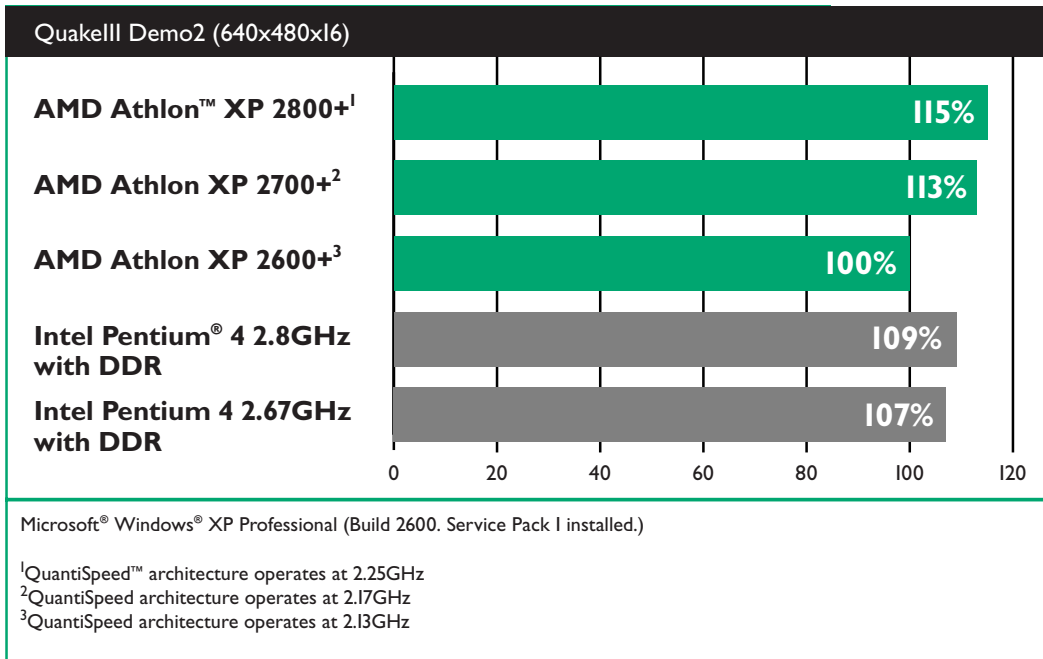
AMD Athlon™ XP Processor 2800+

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3D Gaming

QuakeIII Demo2 (640x480x16)

3D gamers get smooth 3D graphics generation, crystal-clear audio playback, and instant computer response to their actions with the AMD Athlon™ XP processor, which delivers high frames per second.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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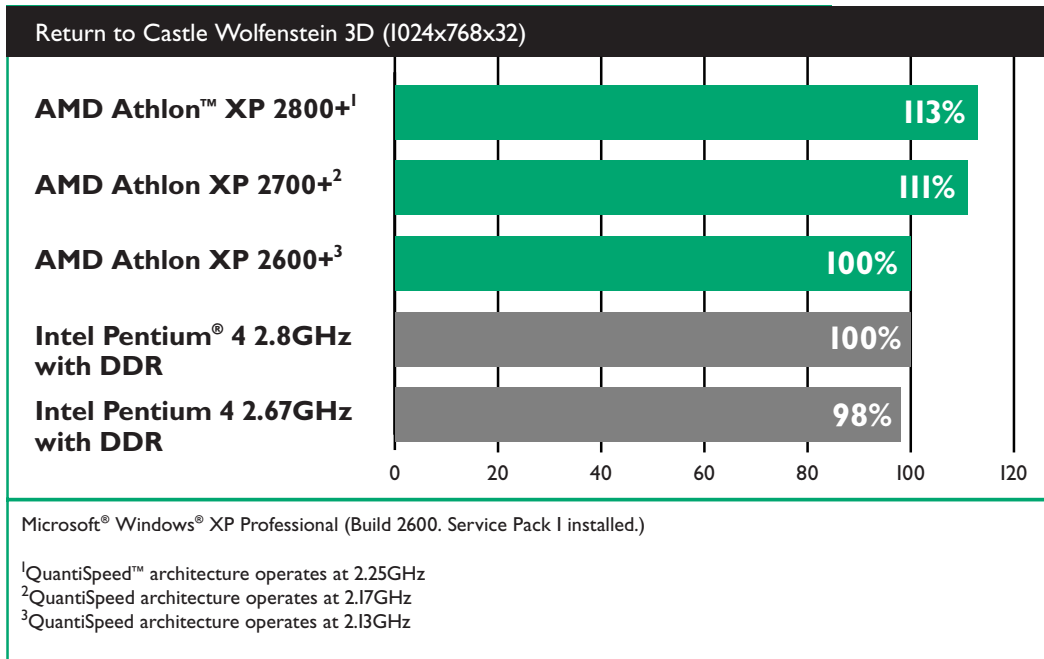
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3D Gaming

Return to Castle Wolfenstein 3D (1024x768x32)

Get completely immersed in the virtual 3D world of Return to Castle Wolfenstein 3D. With the AMD Athlon™ XP processor, high-quality graphics make it possible for end users to experience top-level detail and realistic visual effects.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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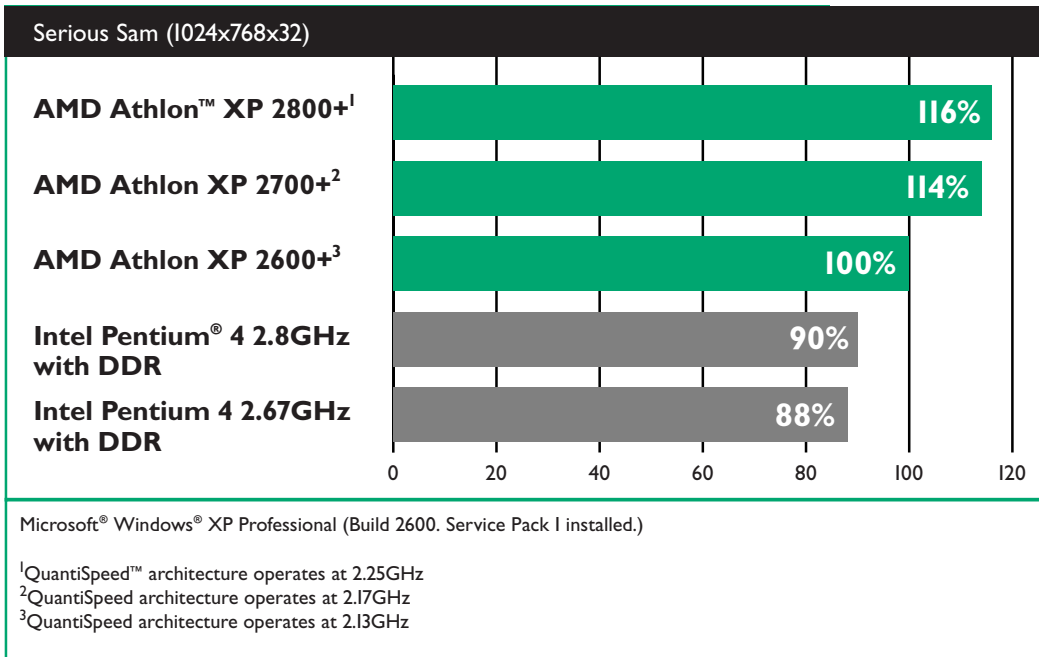
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3D Gaming

Serious Sam (1024x768x32)

With higher frame rates per second, the AMD Athlon™ XP processor delivers 3D gamers with smoother 3D graphics generation, crystal-clear audio playback, and instant computer response to their actions.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: **Hardware:** Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB – integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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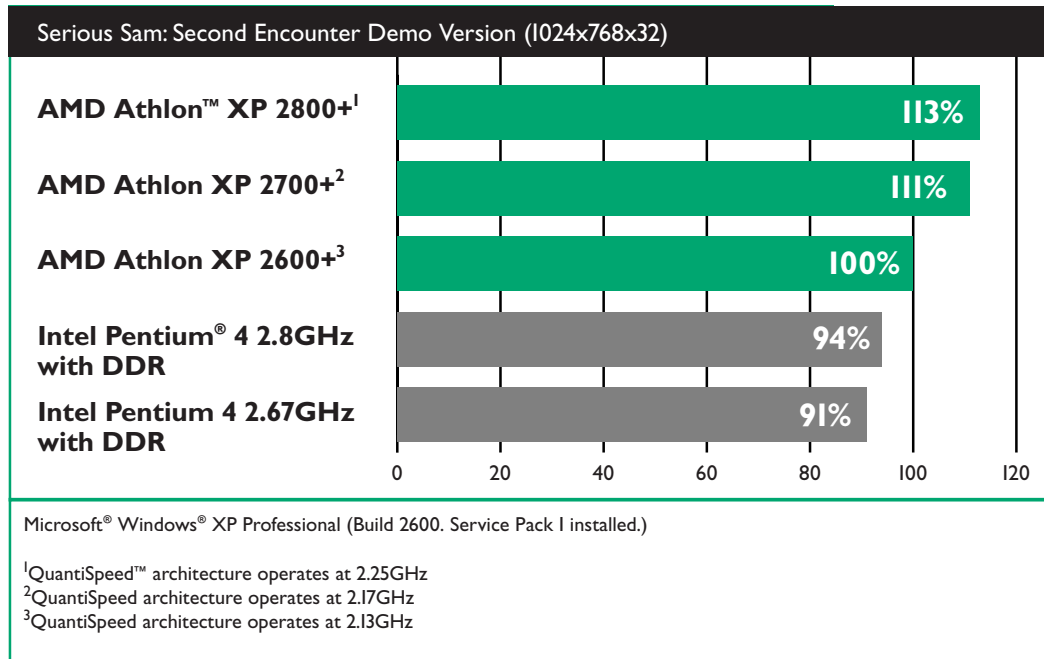
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3D Gaming

Serious Sam: Second Encounter Demo Version (1024x768x32)

3D gamers enjoy smoother 3D graphics generation, crystal-clear audio playback, and instant computer response to their actions with the AMD Athlon™ XP processor which delivers higher frames per second.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack 1 installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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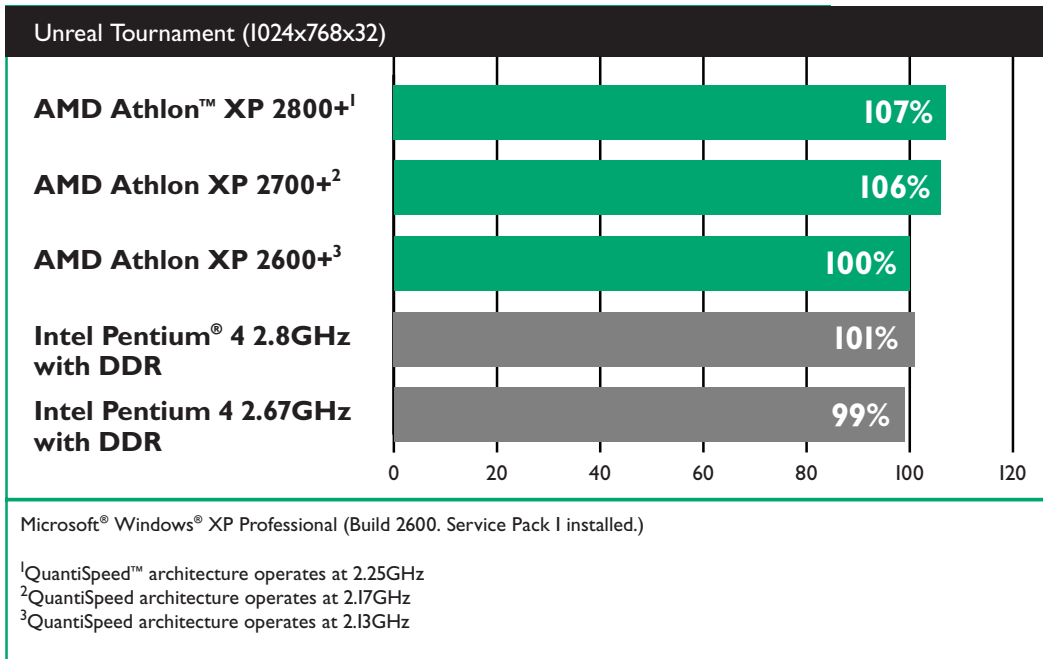
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3D Gaming

Unreal Tournament (1024x768x32)

Higher frame rates per second help the AMD Athlon™ XP processor deliver 3D gamers with smoother 3D graphics generation, crystal-clear audio playback, and instant computer response to their actions.



Benchmark System Configuration:

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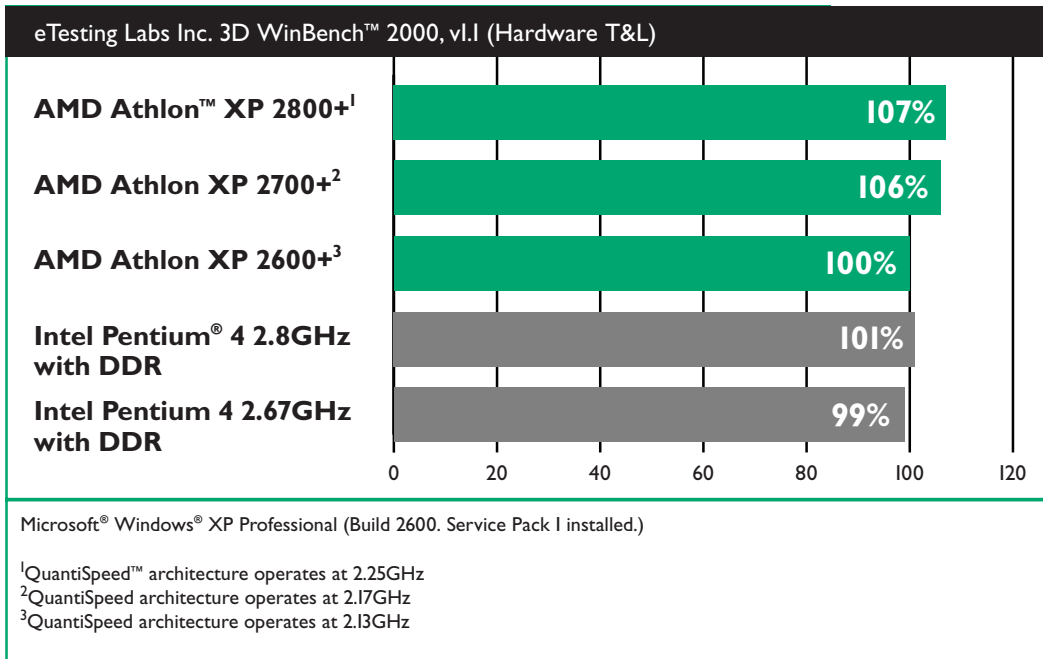
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3D Gaming

eTesting Labs Inc. 3D WinBench™ 2000, v1.1 (Hardware T&L)

The increased performance of the AMD Athlon™ XP processor results in more light sources and more detail – totally immersing users in lifelike realism.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB – integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

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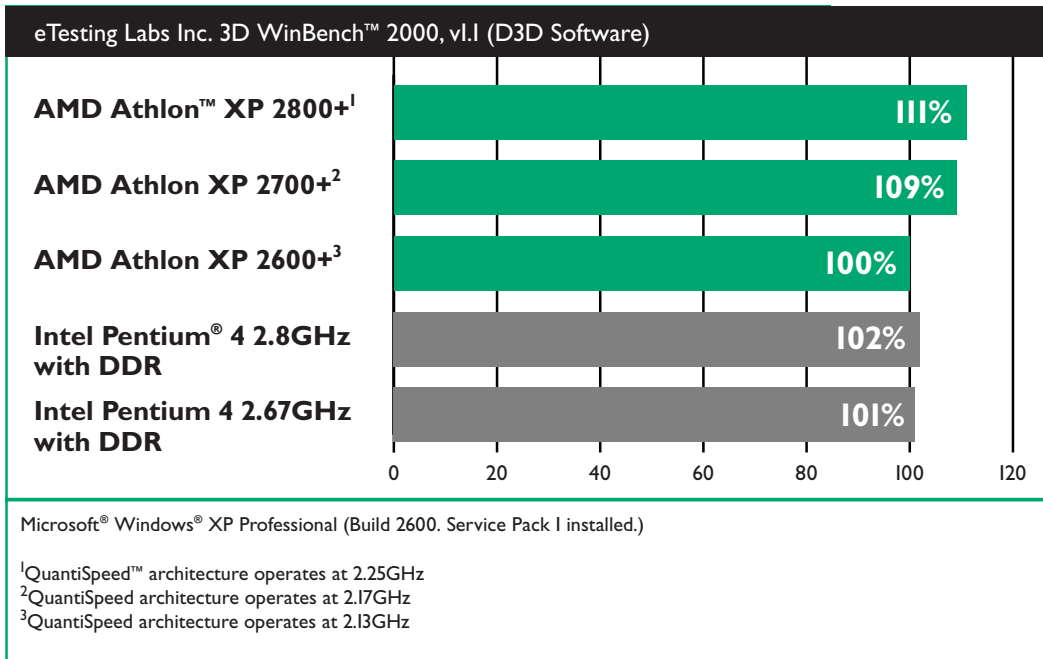
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3D Gaming

eTesting Labs Inc. 3D WinBench™ 2000, v1.1 (D3D Software)

The DirectX interface was optimized specifically for the AMD Athlon™ XP processor, resulting in improved performance on graphics-intensive applications and allowing users to interact real-time with a 3D world.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

AMD Athlon™ XP processor-based systems: Hardware: Motherboard: Asus A7N8X (revision 1.02), BIOS 1.08*, Chipset: NVIDIA nforce2 Chipset, Memory: MA Labs D256M3335A Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: 3Com (Model 3C902B-EMB - integrated on motherboard), Sound Card: NVIDIA nforce MCP Audio Processing Unit (Dolby Digital), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: NVIDIA Corporation, v5.10.2848.8, 5/16/2002**, Network Card: 3Com, v4.30.0.0, 7/15/2002, Sound Card: NVIDIA Corporation, v5.10.2877.0, 9/4/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

*BIOS is not publicly available
 ** EIDE Driver not publicly available

Intel Pentium™ 4 processor-based systems: Hardware: Motherboard: Intel D845GBV, BIOS version RG84510A.86A.0014.P07, Chipset: Intel i845G Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (2), 256MB DIMM Modules, 512MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Intel Pro/100 VE Network Connection (integrated on motherboard) - included with operating system, Sound Card: Intel Soundmax Integrated Digital Audio (integrated on motherboard), Video Card: ATI Radeon 9700, 128MB DDR. **Drivers:** EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Analog Device, v5.12.1.3500, 3/18/2002, Video Card: ATI Technologies, Inc., v6.13.10.6143, 10/24/768, 7/25/2002, 32-bit, 100Hz.

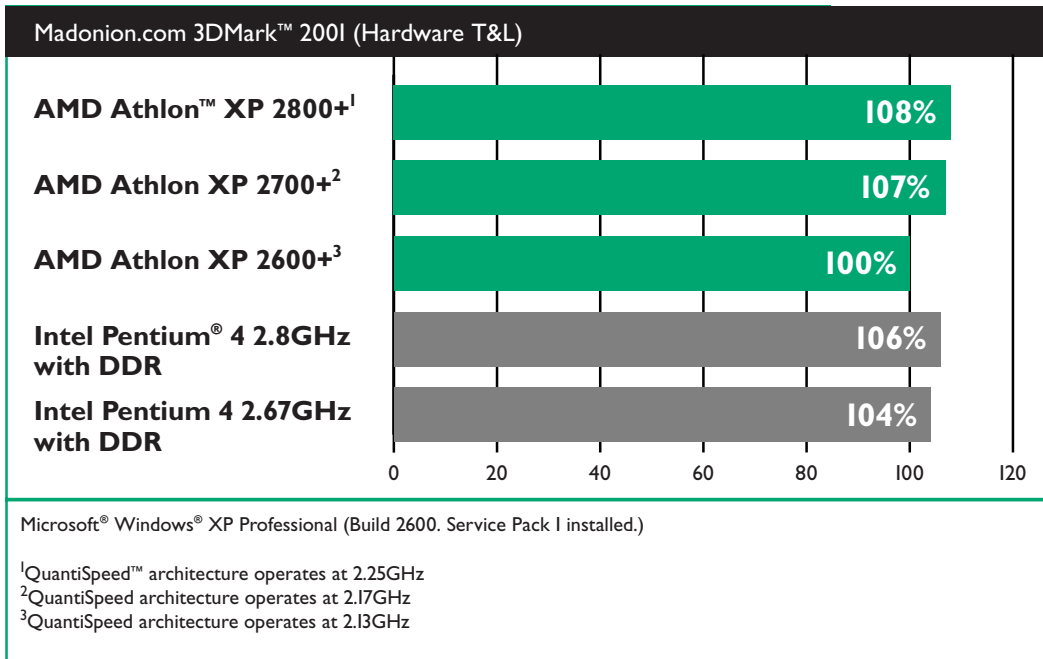
AMD Athlon™ XP Processor 2800+

AMD has generated the below benchmark data. PricewaterhouseCoopers, a global professional services firm, has independently audited the performance results of the AMD Athlon™ XP processor 2800+ displayed in the graph below. Visit the AMD website at www.amd.com to view the data and audit results.

3D Gaming

Madonion.com 3DMark™ 2001 (Hardware T&L)

Users will find themselves immersed in lifelike realism when they experience more light sources and enhanced detail with the increased performance of the AMD Athlon™ XP processor.



Benchmark System Configuration:

Microsoft® Windows® XP Professional - (Build 2600. Service Pack I installed.)

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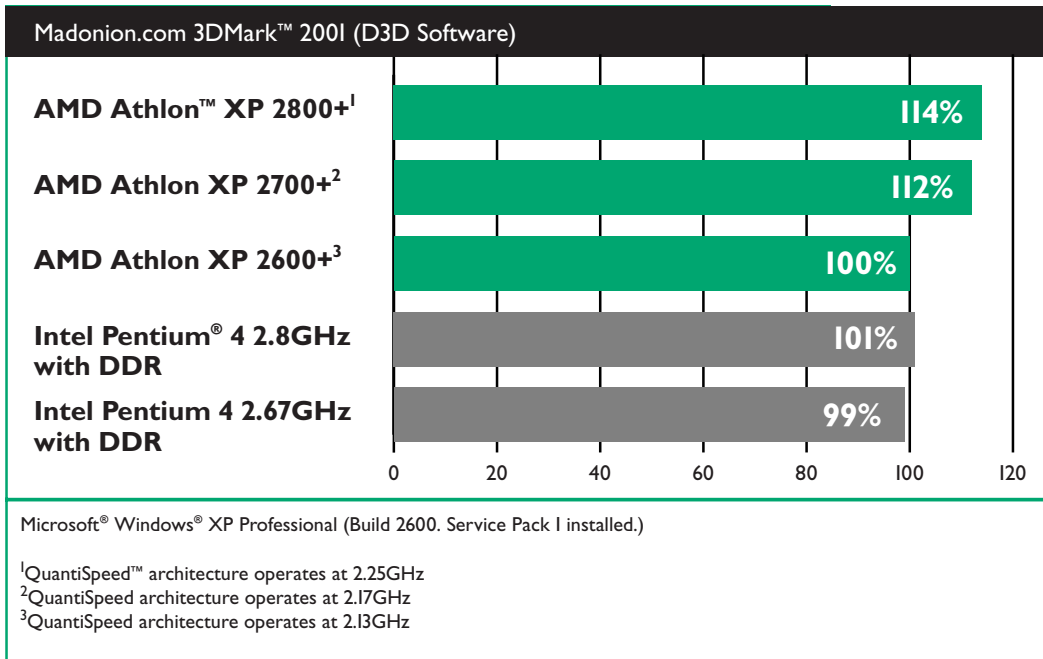
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3D Gaming

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