

A blurred background image of a man with dark, curly hair, wearing a dark shirt with a red collar, looking down at a computer monitor. The lighting is warm and soft, creating a professional and focused atmosphere.

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

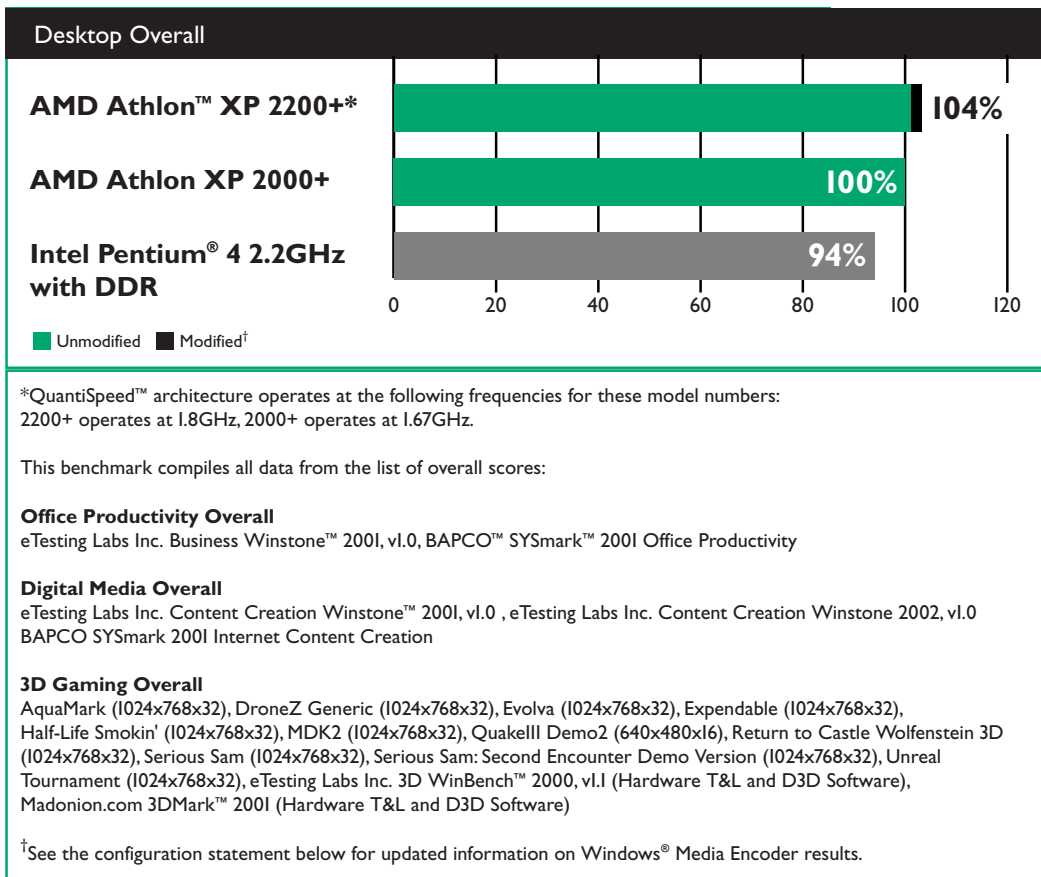
3D Gaming

AMD Athlon™ XP Processor 2200+

AMD has generated the below benchmark data. Andersen, a global leader in professional services, has independently audited the unmodified performance results of the AMD Athlon™ XP processor 2200+ displayed in the graph. Visit the AMD website at www.amd.com to view the data and audit results.

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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visontek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visontek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

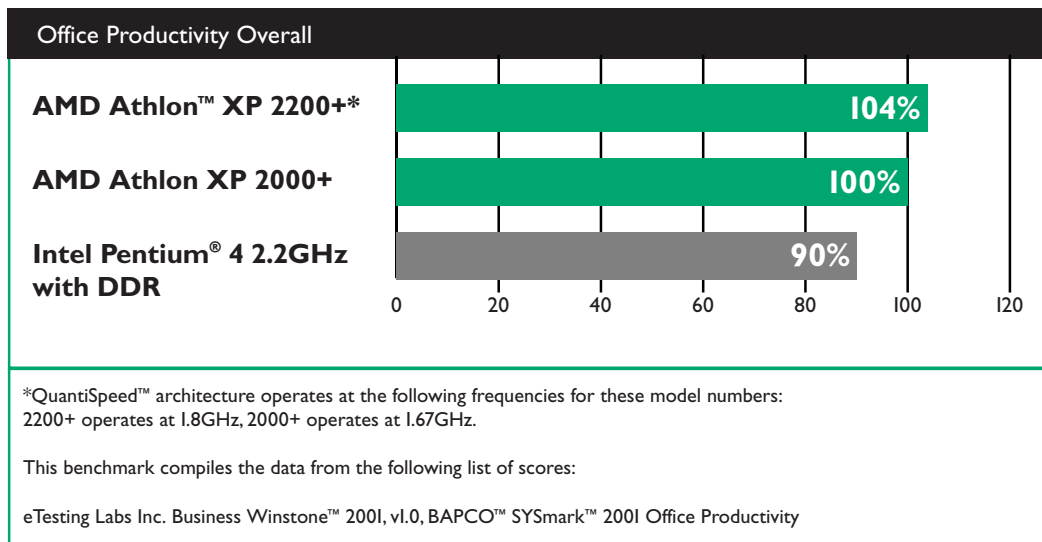
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Office Productivity

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. No service packs or updates installed.)

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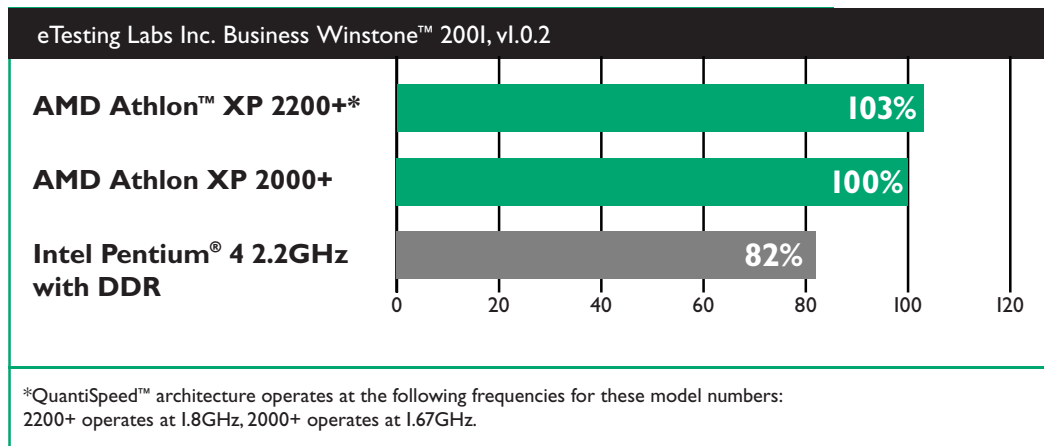
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Office Productivity

eTesting Labs Inc. Business Winstone™ 200I, v1.0.2

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. No service packs or updates installed.)

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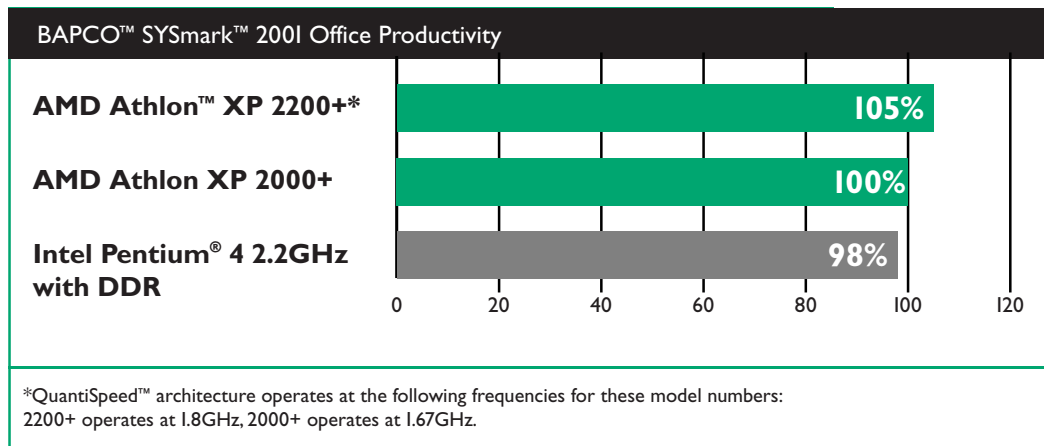
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Office Productivity

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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

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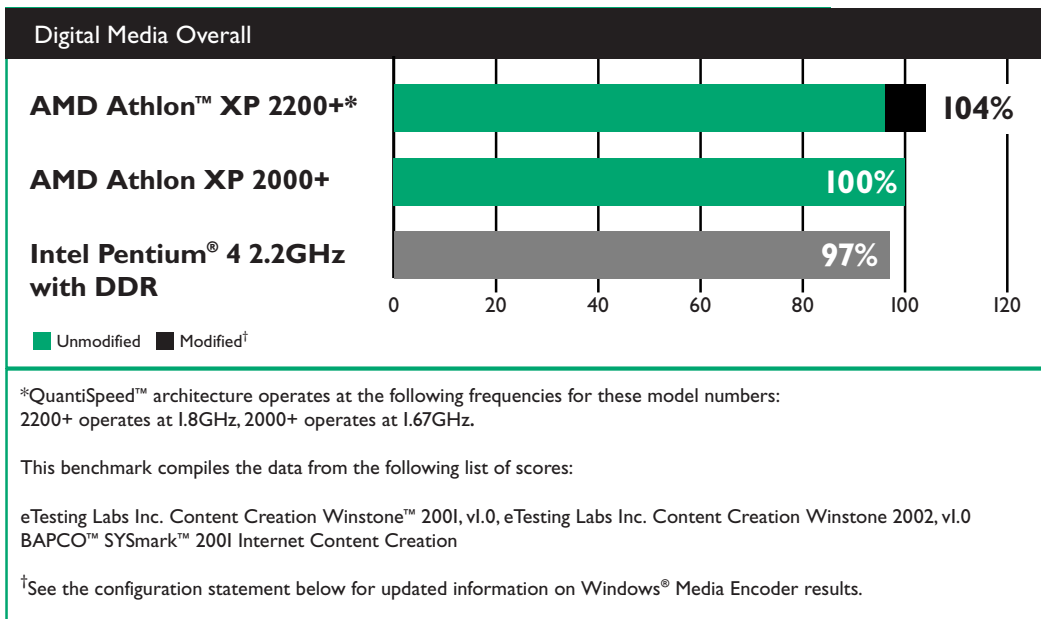
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Digital Media

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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

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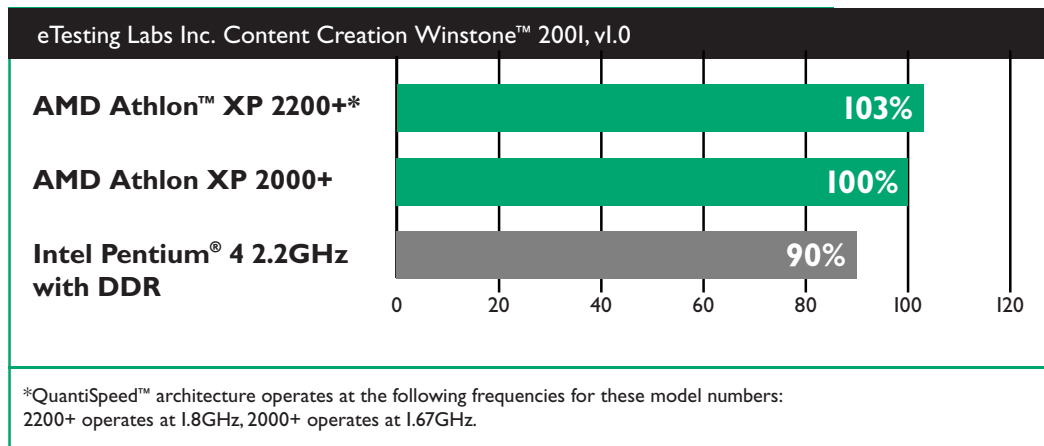
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Digital Media

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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

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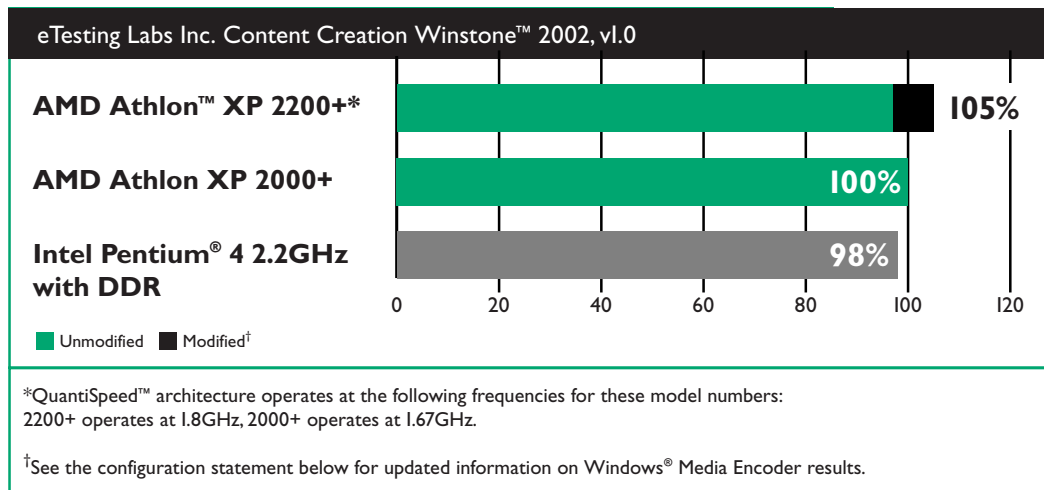
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Digital Media

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. No service packs or updates installed.)

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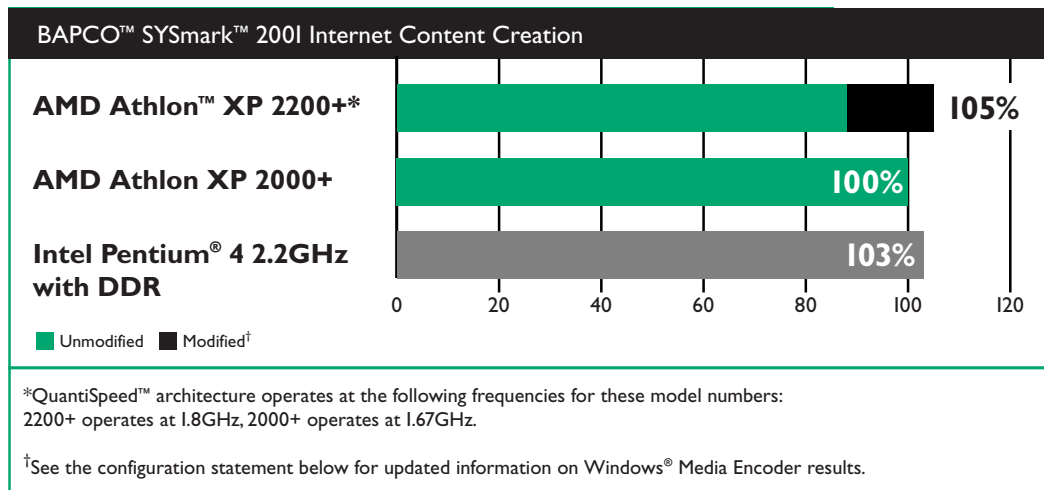
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Digital Media

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. No service packs or updates installed.)

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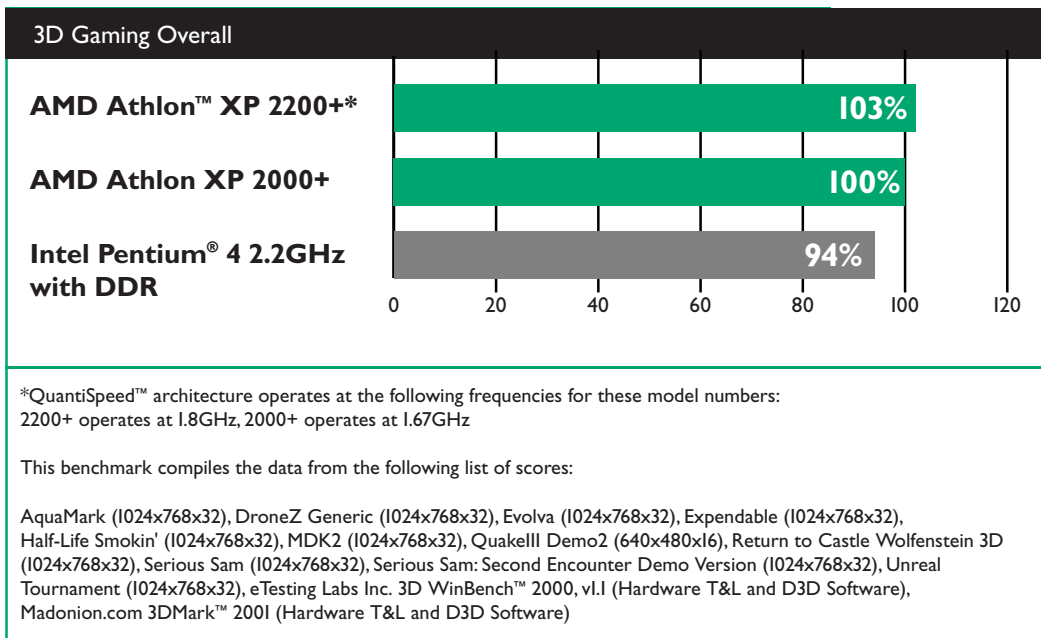
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3D Gaming

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. No service packs or updates installed.)

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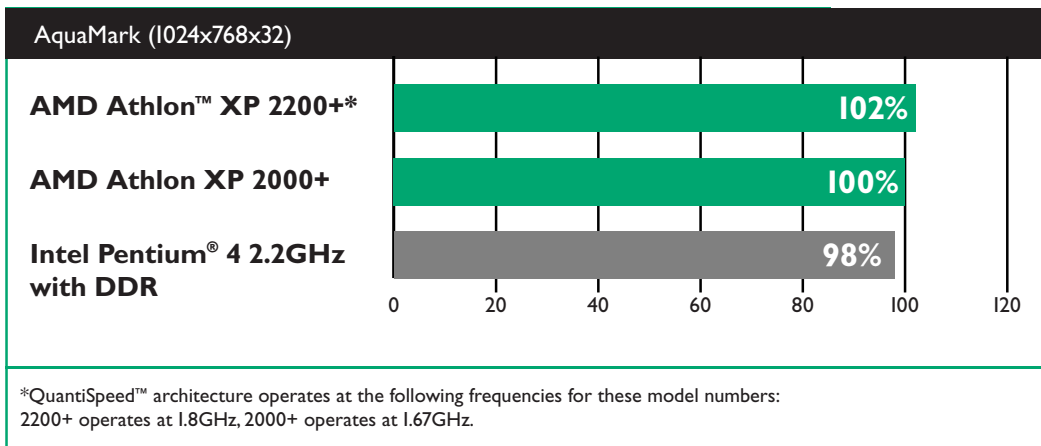
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3D Gaming

AquaMark (1024x768x32)

The AMD Athlon™ XP processor makes it possible for gamers to experience a high level of detail and realistic visual effects. With the AMD Athlon XP processor with 3DNow! Professional technology, you'll be completely immersed in the virtual 3D world of AquaMark.

**Benchmark System Configuration:**

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AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

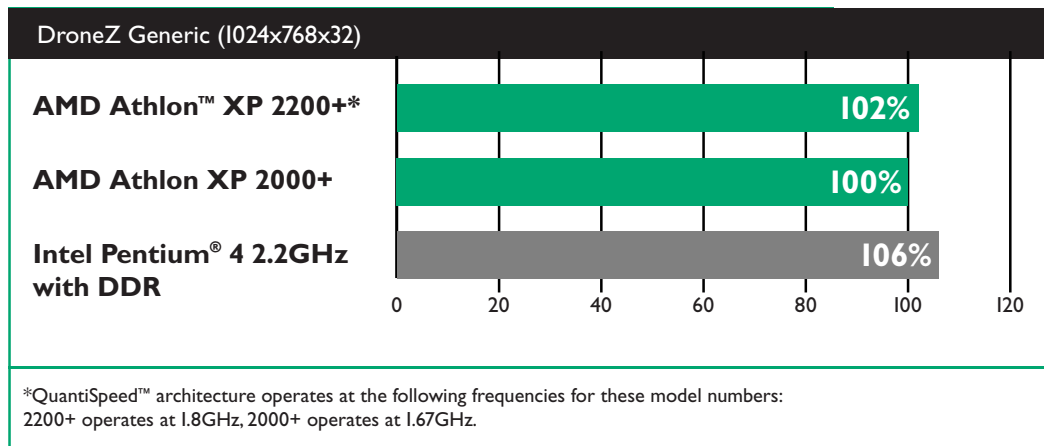
AMD Athlon™ XP Processor 2200+

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

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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

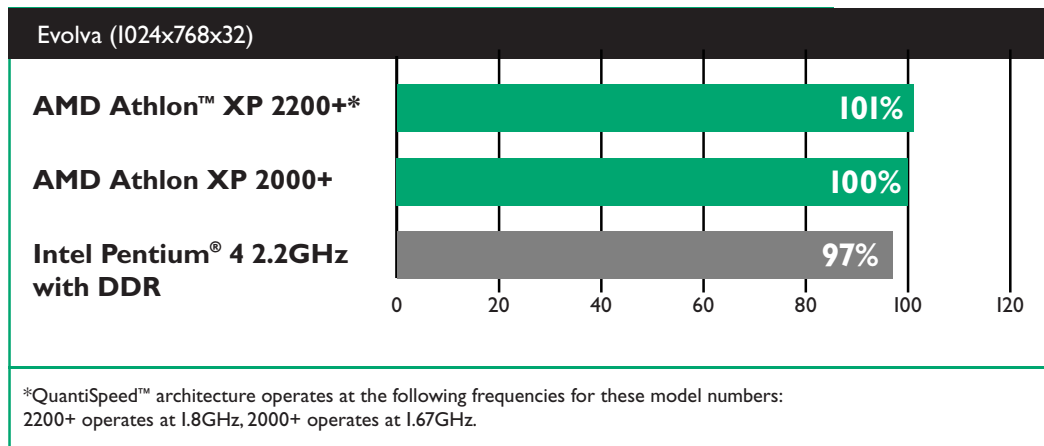
AMD Athlon™ XP Processor 2200+

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3D Gaming

Evolva ((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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

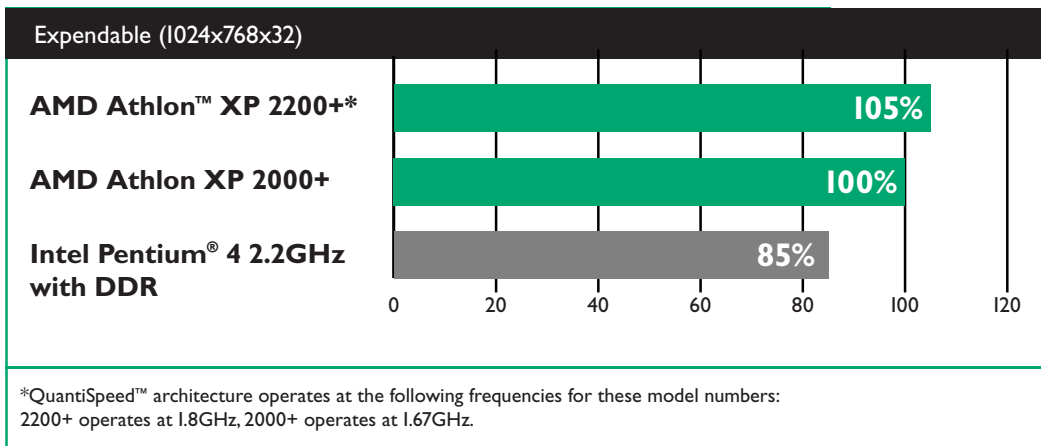
AMD Athlon™ XP Processor 2200+

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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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

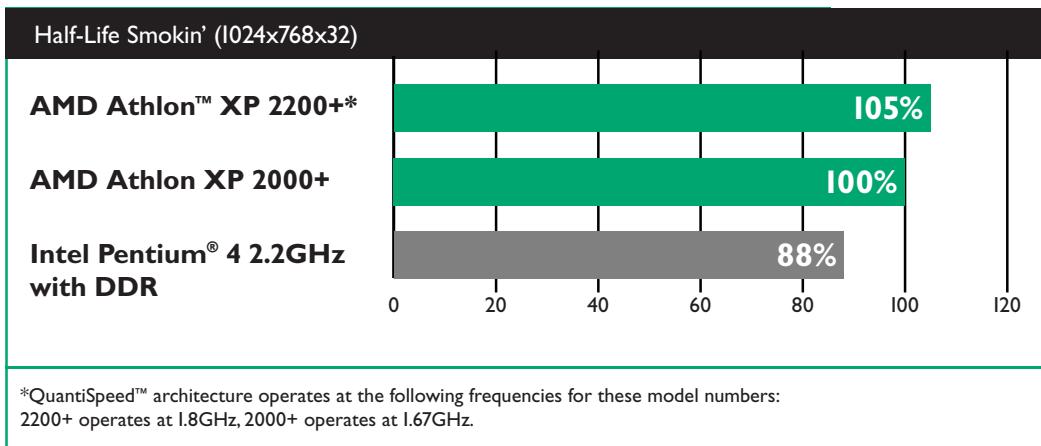
AMD Athlon™ XP Processor 2200+

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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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

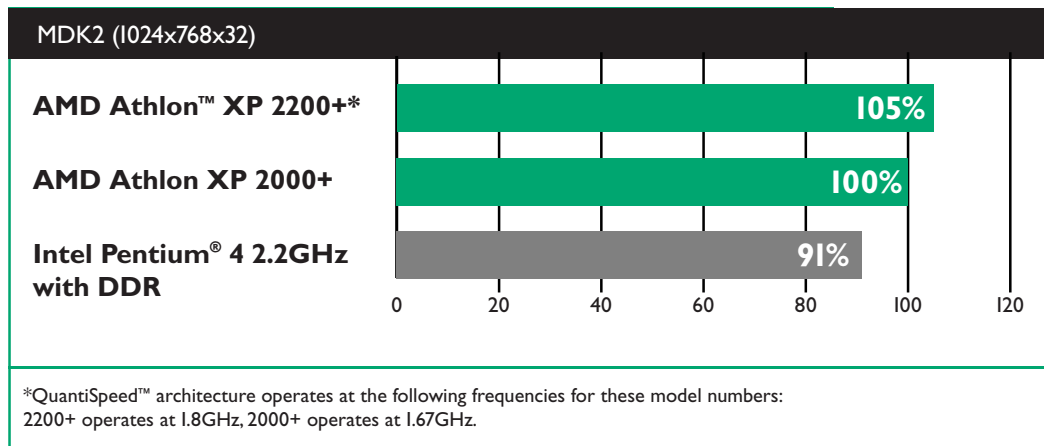
AMD Athlon™ XP Processor 2200+

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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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows® XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

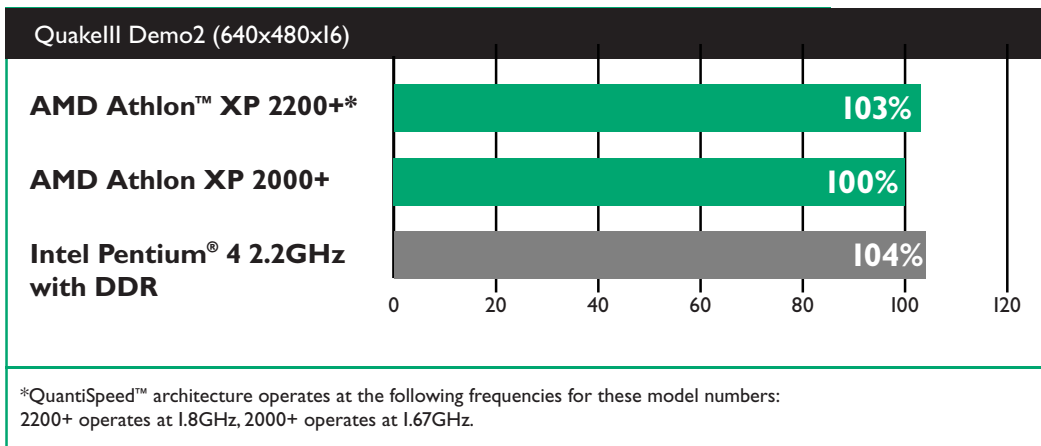
AMD Athlon™ XP Processor 2200+

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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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows® XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

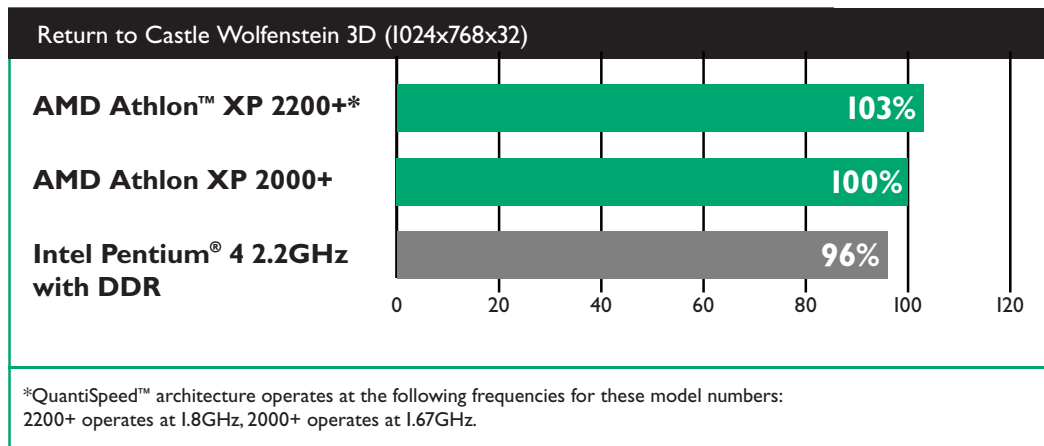
AMD Athlon™ XP Processor 2200+

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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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiontek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

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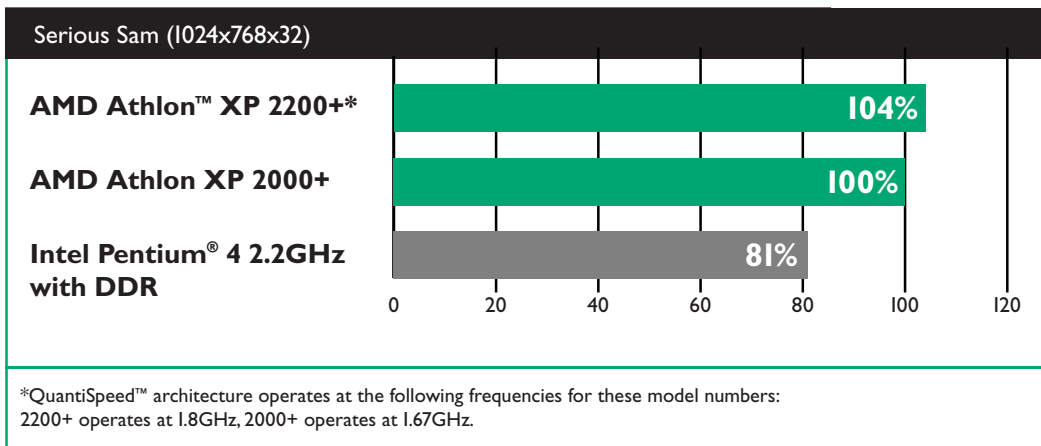
AMD Athlon™ XP Processor 2200+

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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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

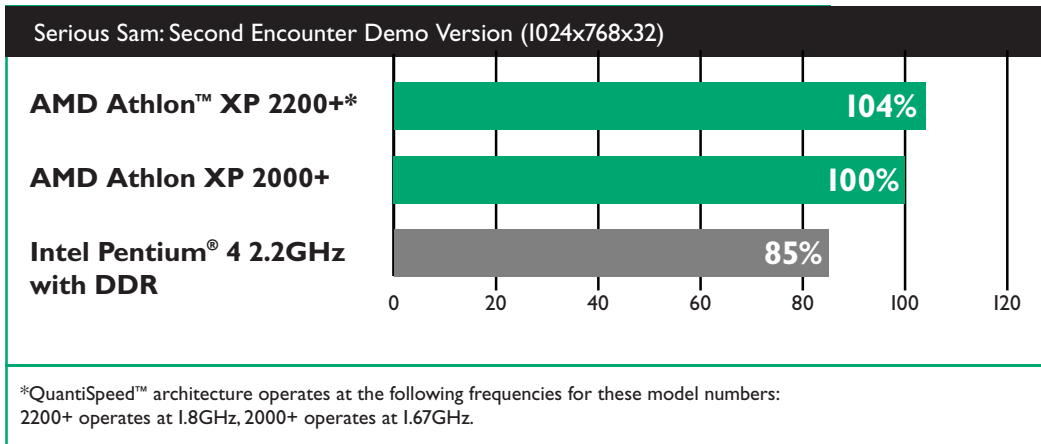
AMD Athlon™ XP Processor 2200+

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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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

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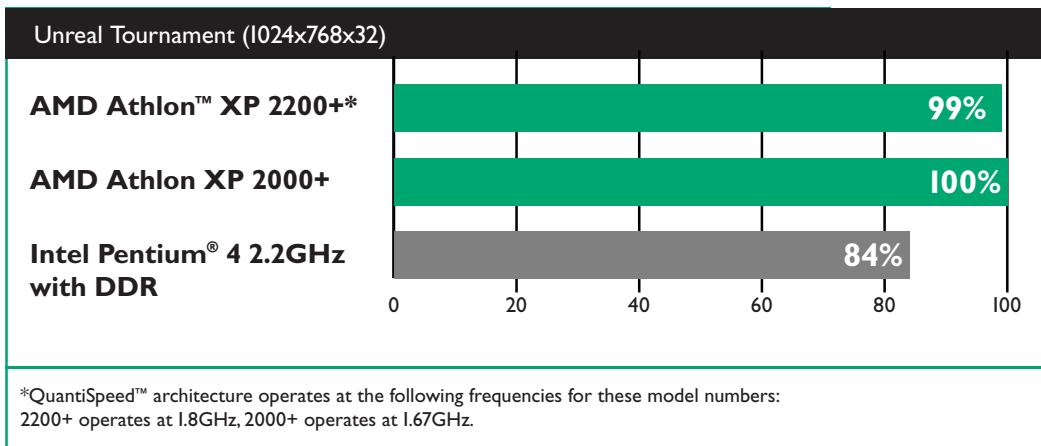
AMD Athlon™ XP Processor 2200+

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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:**

Microsoft® Windows® XP Professional - (Build 2600. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visontek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows® XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

Intel Pentium® 4 processor-based systems: Hardware: Motherboard: Intel D845BG, BIOS version PT84510A.86A.0012.P01, Chipset: Intel i845 Chipset, Memory: Corsair XMS2400 CM64SD256-2400C2, Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visontek GeForce4 Titanium 4600, 128MB DDR. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

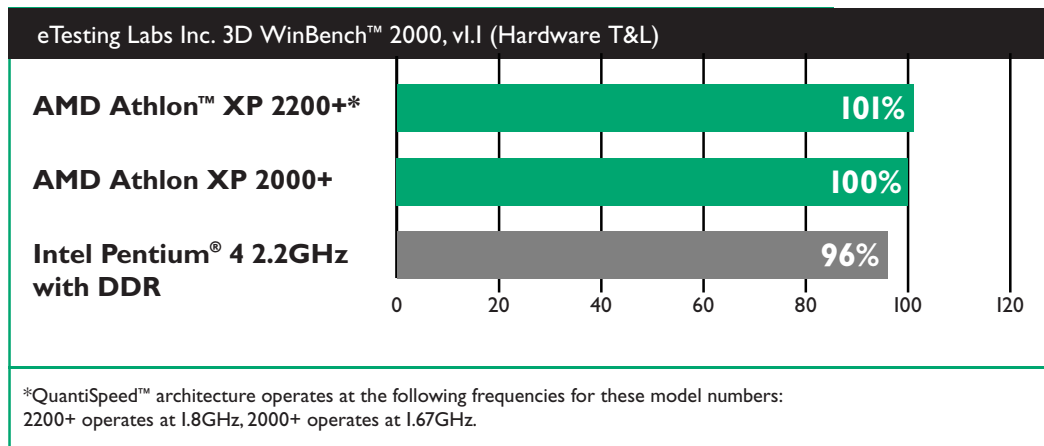
AMD Athlon™ XP Processor 2200+

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

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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visontek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

DDR Platform: Intel Pentium 4 Processors: 2.2GHz with DDR

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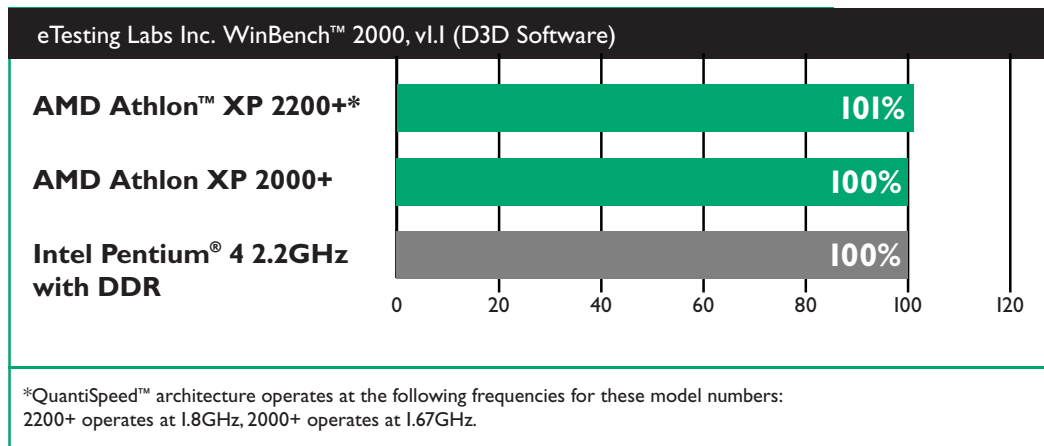
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3D Gaming

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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

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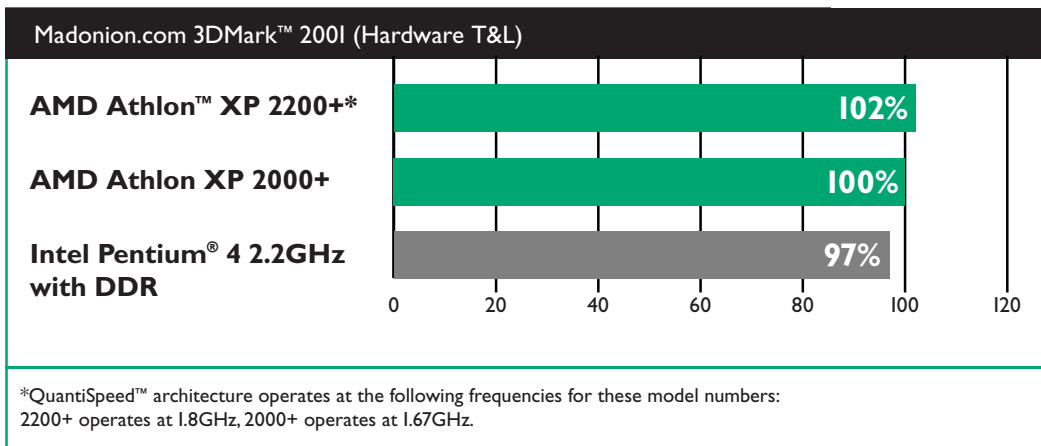
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3D Gaming

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. No service packs or updates installed.)

DDR Platform: AMD Athlon XP Processors: 2000+ and 2200+.

AMD Athlon™ XP processor systems: Hardware: Motherboard: Gigabyte GA-7VRXP, BIOS 7VRXP F4, Chipset: Via KT333A Chipset, Memory: Twinmos PC2700 (DDR/CL2.5), Qty. (1), 256MB DIMM Module, 256MB total, Hard Drive: 120GB Western Digital Caviar UDMA 100 (Model WD1200) - (NTFS used to format the hard disk), Network Card: Allied Telesyn AT-2700TX, 10/100, Sound Card: Creative Labs SoundBlaster Live!, Model CT4670, Video Card: Visiotek GeForce4 Titanium 4600, 128MB DDR. Updated Windows® Media Encoder Results contain a software update which enables 3DNow!™ Professional technology in version 7.0 of Microsoft Windows® Media Encoder. This software patch is not publicly available; however the current version of Microsoft Windows Media Encoder 8 properly enables support for 3DNow! Professional technology. Drivers: EIDE Drivers: Windows XP Professional - provided by operating system, Network Card: Windows XP Professional - provided by operating system, Sound Card: Windows XP Professional - provided by operating system, Video Card: NVIDIA, v6.13.10.2832, 1024x768, 3/8/2002, 32-bit, 100Hz.

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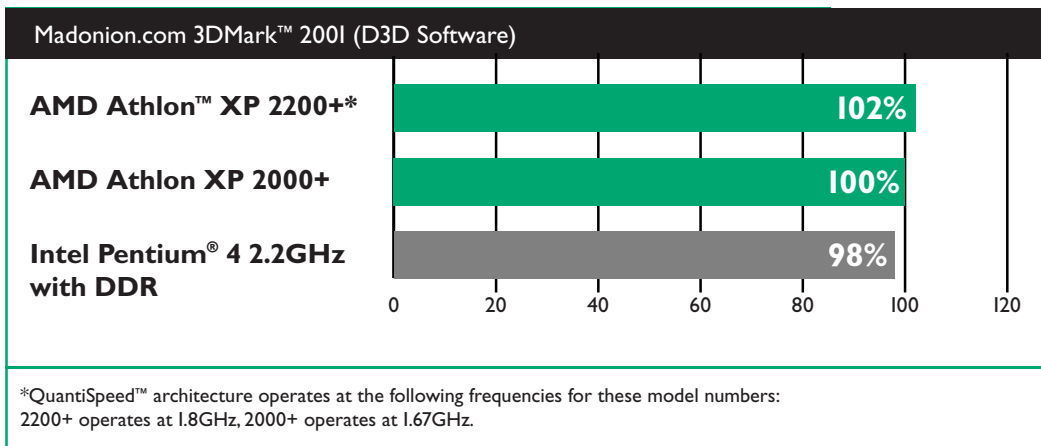
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3D Gaming

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The AMD Athlon™ XP processor was specifically designed to optimize the DirectX interface. This results in improved performance on graphic intensive applications, allowing users to interact real-time with a 3D world.

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Microsoft® Windows® XP Professional - (Build 2600. No service packs or updates installed.)

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