



AMD Mobile Processor Benchmarks

AMD Turion™ 64 X2 Mobile Technology

June 2006

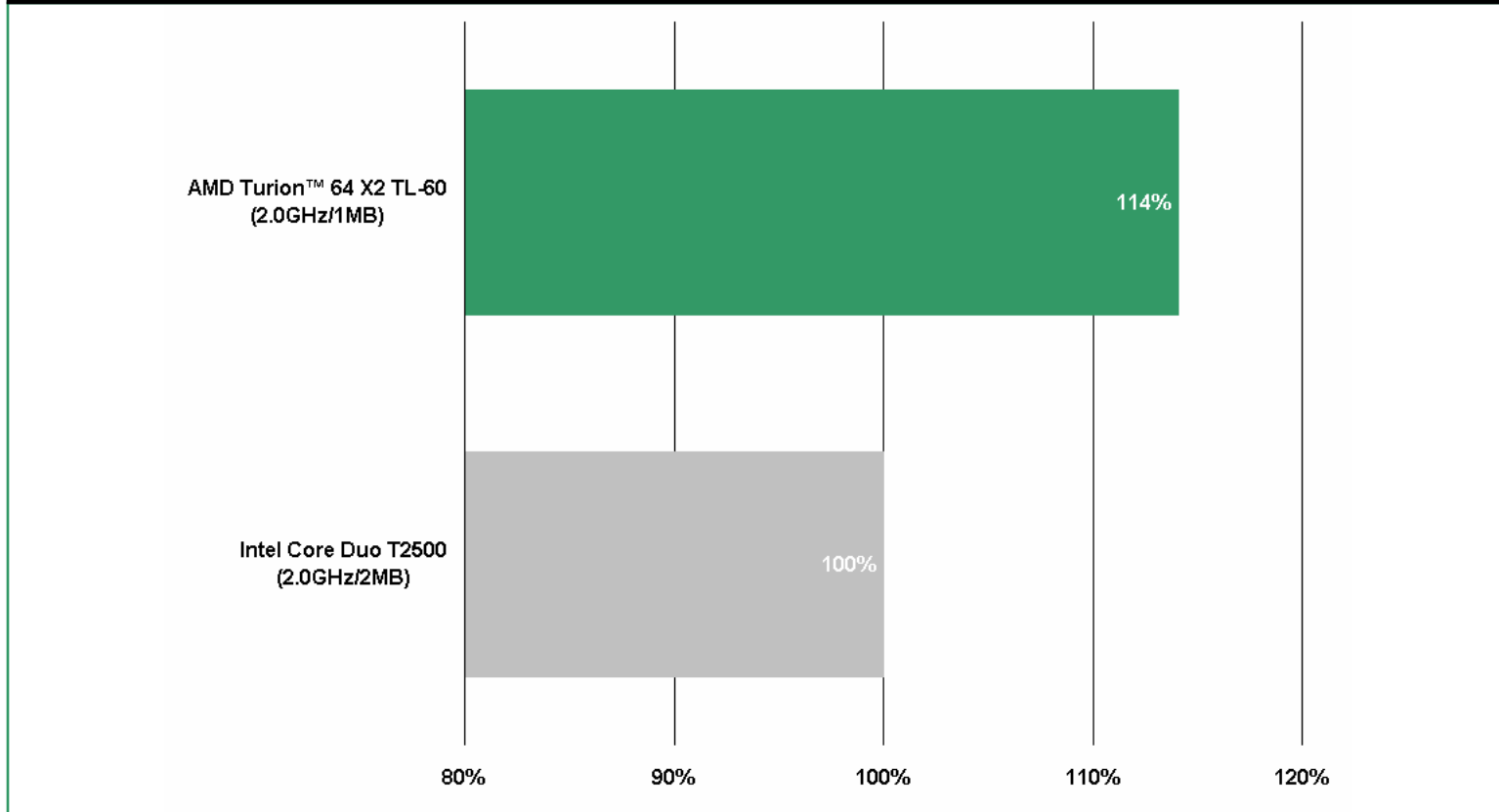
*A summary of mobile processor
performance benchmarks*

Overall Performance

AMD Turion™ 64 X2 Mobile Technology

AMD Turion™ 64 X2 Mobile Technology Performance Benchmark

Notebook PC – Overall Performance



Overall Performance is the geometric mean of Office Productivity Overall, Digital Media Overall, and Gaming Overall results. Results are normalized to Intel Core Duo T2500 processor.

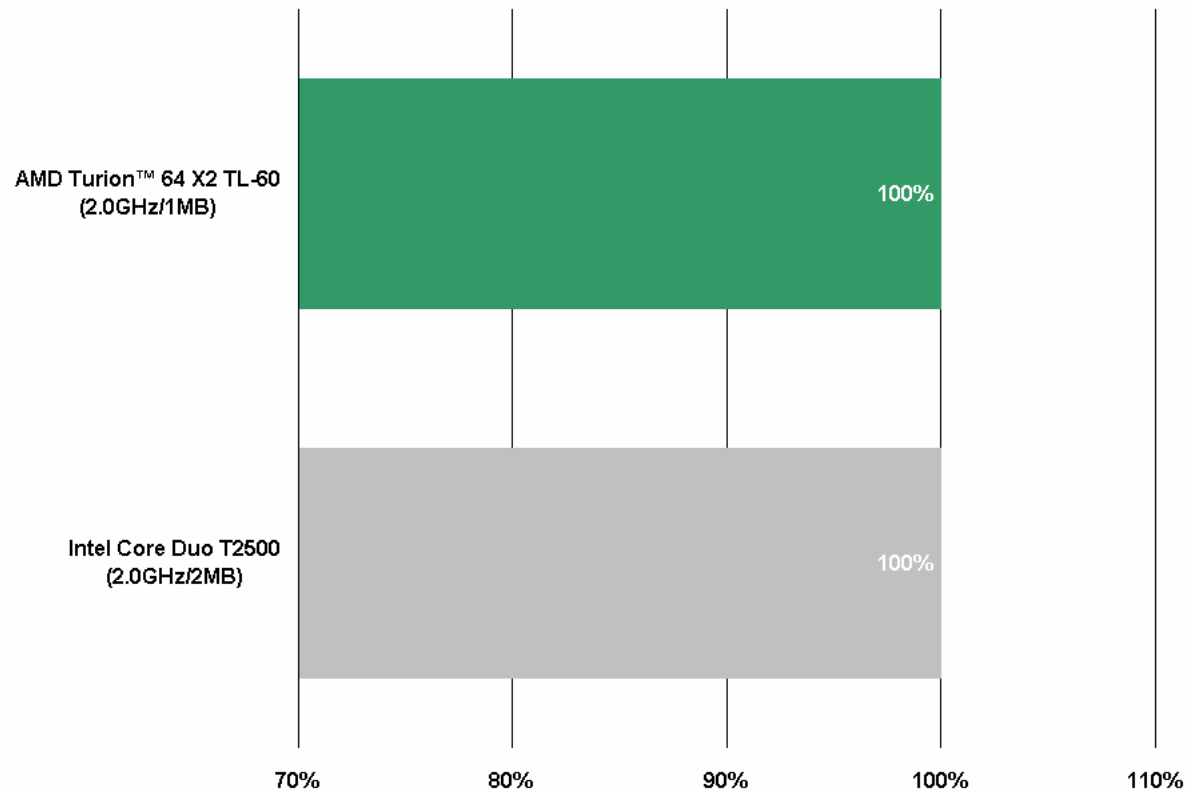


Overall Office Productivity

AMD Turion™ 64 X2 Mobile Technology

AMD Turion™ 64 X2 Mobile Technology Performance Benchmark

Notebook PC – Overall Office Productivity



Office Productivity Overall Performance is the geometric mean of Office Productivity benchmark results. Results are normalized to Intel Core Duo T2500 processor.

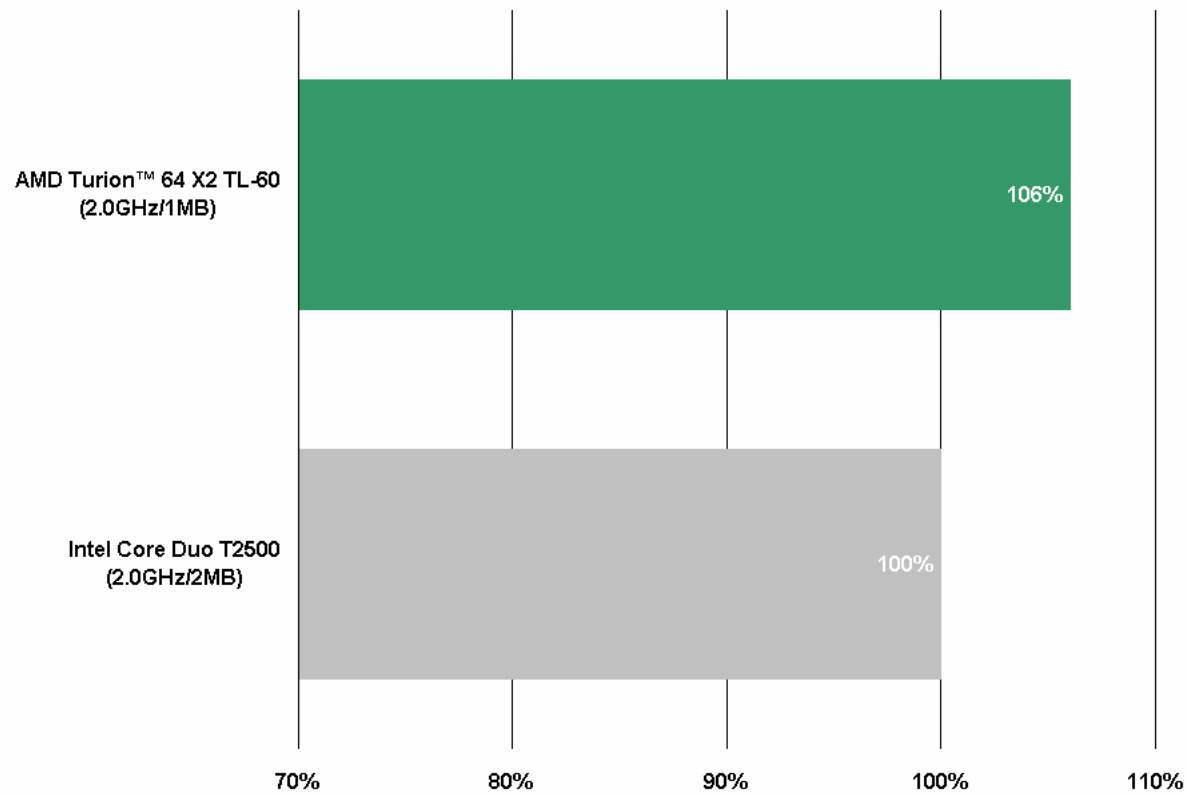


Overall Digital Media

AMD Turion™ 64 X2 Mobile Technology

AMD Turion™ 64 X2 Mobile Technology Performance Benchmark

Notebook PC – Overall Digital Media



Digital Media Overall Performance is the geometric mean of Digital Media benchmark results. Results are normalized to Intel Core Duo T2500 processor.

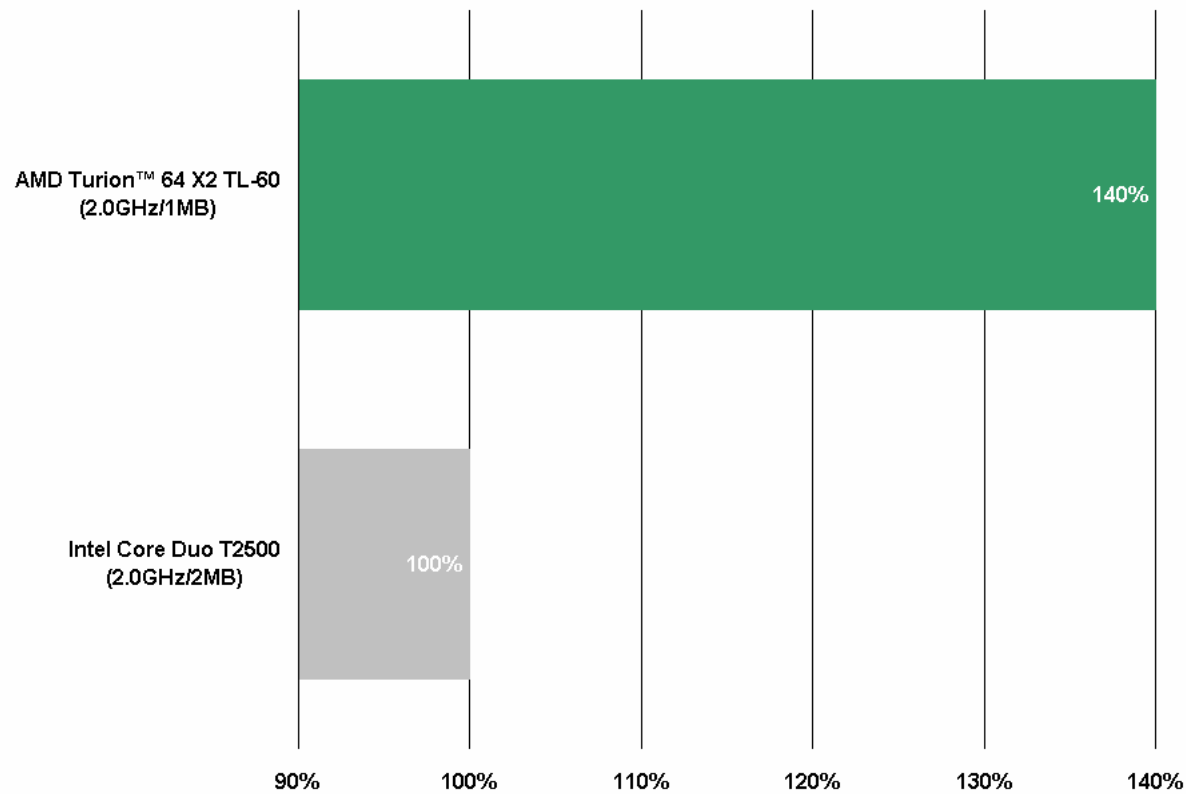


Overall Gaming

AMD Turion™ 64 X2 Mobile Technology

AMD Turion™ 64 X2 Mobile Technology Performance Benchmark

Notebook PC – Overall Gaming



Gaming Overall Performance is the geometric mean of Gaming benchmark results. Results are normalized to Intel Core Duo T2500 processor.



System Configuration

AMD Turion™ 64 X2 Mobile Technology

| | | |
|-------------------------|--------------|---|
| Operating System | | Microsoft® Windows® XP Professional, RTM, Service Pack 2 installed, Build 2600, DirectX 9.0c |
| Hardware | Processor | AMD Turion™ 64 X2 TL-60 (2.0GHz, 2 x 512KB L2) |
| | Notebook | HP Compaq nx6325 (modified), BIOS version F.01, 6/1/2006 |
| | Chipset | ATI Radeon Xpress 1150 |
| | Memory | 2GB DDR2-667 (PC2-5300), 2 SO-DIMMs, 5-5-5/12 |
| | Hard Drive | Seagate ST9100824AS, 100GB, 5400 RPM, 8 MB buffer, SATA 1.5Gb/s (NTFS used to format the hard disk) |
| | Video | ATI Radeon Xpress 1150, 128 MB shared video memory |
| | Audio | Analog Devices SoundMAX Digital High Definition Audio |
| | LAN | Broadcom 440x 10/100 Networking Controller (disabled during test) |
| | Wireless LAN | Broadcom 802.11 b/g WLAN |
| Power Scheme | | Always On |
| Drivers | Video | ATI version 8251.0.0, 4/27/2006 |
| | Audio | Analog Devices version 5.10.1.4324, 5/3/2006 |
| | LAN | Broadcom version 4.37.0.0, 11/16/2005 |
| | Wireless LAN | Broadcom version 4.10.40.1, 12/17/2005 |

System Configuration

Intel Core Duo Processor

| | | |
|-------------------------|--------------|---|
| Operating System | | Microsoft® Windows® XP Professional, RTM, Service Pack 2 installed, Build 2600, DirectX 9.0c |
| Hardware | Processor | Intel Core Duo T2500 (2.0GHz, 2MB L2) |
| | Notebook | Sony VAIO VGN-FE590 (modified); BIOS version R0060J3 |
| | Chipset | Intel 945GM |
| | Memory | 2GB DDR2-667 (PC2-5300), 2 SO-DIMMs, 5-5-5/12 |
| | Hard Drive | Seagate ST9100824AS, 100GB, 5400 RPM, 8 MB buffer, SATA 1.5Gb/s (NTFS used to format the hard disk) |
| | Video | Intel GMA 950, 128 MB shared video memory |
| | Audio | SigmaTel High Definition Audio |
| | LAN | Intel PRO/100 VE Network Connection (disabled during test) |
| | Wireless LAN | Intel PRO/Wireless 3945ABG Network Connection (disabled during test) |
| Power Scheme | | Always On |
| Drivers | Video | Intel version 6.14.10.4421, 11/3/2005 |
| | Audio | Sigmatel version 5.10.4825.0, 11/17/2005 |
| | LAN | Intel version 8.0.21.0, 6/13/2005 |
| | Wireless LAN | Intel version 10.1.0.11, 11/27/2005 |

AMD Benchmark Suite

Office Productivity

BAPCo® SYSmark® 2004SE, Office Productivity, Version 1.0 (w/Patch 2)
VeriTest Business Winstone™ 2004, Version 1.0.1 (w/SP2)
VeriTest Business Winstone 2004 Multitasking Test Scores, Version 1.0.1
PC World Bench 5.0 Overall, 7.1.100.1248 (w/SP2 reg edit)
Remote Collaboration Scenario (Windows® Netmeeting 3.01 & Windows Media Encoder Series 9 (9.00.00.2980)
Travel Ready Scenario (Microsoft® Office Publisher 2003 (11.5525.5606)/ Nero Vision Express (3.1.0.0)

Digital Media

BAPCo® SYSmark® 2004SE, Internet Content Creation
VeriTest Multimedia Content Creation Winstone® 2004, Version 1.0.1 (4 threads)
DivXNetworks Inc., DrDivX, Version 1.0.6
Smokey City Design, LLC, The Panorama Factory, Version 3.3
Sony Vegas Studio 6.0, Version 6.0.d
Itunes Version 6.0.4.2
Photo touchoup & Video encode (Adobe Photoshop® Elements 4.0 w/ Adobe Bridge 1.0 & Windows® Media Encoder 9.00.00.2980)
Video playback & Virus scan (Windows® Media Player 9.00.00.3250 & Norton Antivirus 9.02 Corp Edition)
Cakewalk Sonar 5, Version 5.0.1

Gaming (all at 1024x768x32)

Futuremark Corp. 3DMark™05 (Hardware Vertex Shaders)
Futuremark Corp. 3DMark™05 (Software Vertex Shaders)
Futuremark Corp. 3DMark™06 (Software Vertex Shaders)
Half-Life2 at_coast_05_rev7.dem (1.0.1.0 Protocol Version 7)
Half-Life2 at_prison_05_rev7.dem (1.0.1.0 Protocol Version 7)
Lucas Arts Star Wars Jedi Knight II Demo, Version 1.04
Id Software, Inc. Quake 4 v1.04
Id Software, Inc. Return to Castle Wolfenstein: Enemy Territory, Version 2.6
Epic Games Unreal Tournament 2004 Flyby (3369)
Epic Games Unreal Tournament 2004 Botmatch (3369)
Ubisoft Entertainment FarCry, Version 1.3.3, Peir
Id Software, Inc. Doom 3, Version 1.3
Crafty 32bit, Version 19.12 by Bob Hyatt

Note: Unable to run Futuremark Corp. 3DMark™06 (Hardware Vertex Shaders) on Intel Core Duo system

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