



SPEC[®] CINT2006 Result

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ASUS Computer International

(Test Sponsor: Intel Corporation)

SPECint[®]_rate2006 = 35.3

ASUS P5K3 motherboard (Intel Core 2 Duo E6750)

SPECint_rate_base2006 = 31.5

CPU2006 license: 13

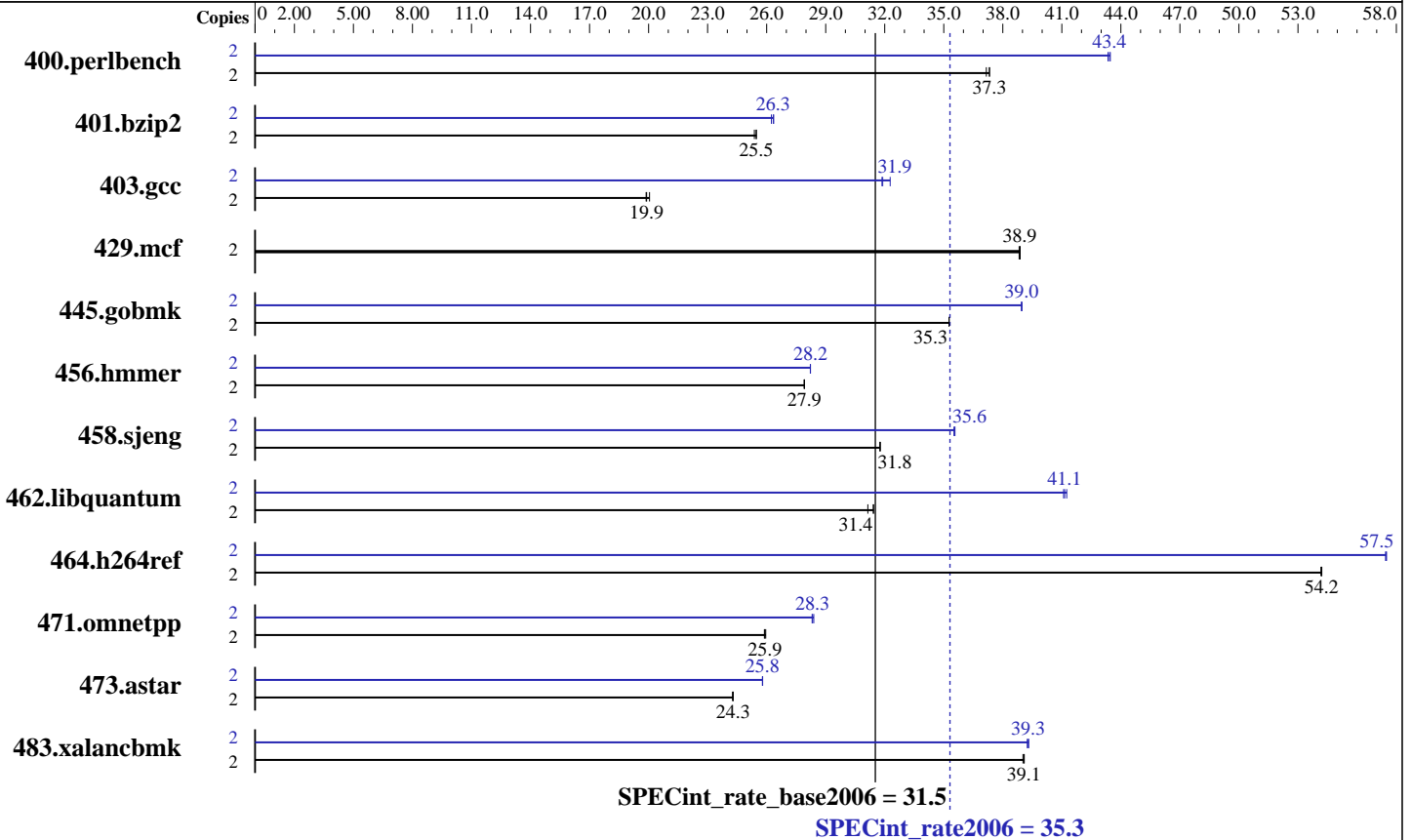
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2007

Hardware Availability: Jul-2007

Software Availability: Aug-2006



Hardware

CPU Name: Intel Core 2 Duo E6750
 CPU Characteristics: 2.66 GHz, 1333 MHz bus
 CPU MHz: 2666
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2x1GB ELPIDA PC3-8500U-7-00-BP DDR3-1066 7-7-7-20)
 Disk Subsystem: Seagate ST3320620AS 320GB Barracuda 7200.10 NCQ SATA II
 Other Hardware: None

Software

Operating System: Windows Vista32 Ultimate
 Compiler: Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Microsoft Visual Studio .Net 2003 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library Version 8.0 from <http://www.microquill.com/>



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	526	37.2	524	37.3	<u>524</u>	<u>37.3</u>	2	450	43.5	<u>450</u>	<u>43.4</u>	451	43.3
401.bzip2	2	<u>758</u>	<u>25.5</u>	758	25.5	761	25.4	2	736	26.2	<u>733</u>	<u>26.3</u>	732	26.4
403.gcc	2	810	19.9	<u>809</u>	<u>19.9</u>	803	20.0	2	<u>505</u>	<u>31.9</u>	505	31.9	499	32.3
429.mcf	2	<u>469</u>	<u>38.9</u>	470	38.8	469	38.9	2	<u>469</u>	<u>38.9</u>	470	38.8	469	38.9
445.gobmk	2	595	35.3	<u>595</u>	<u>35.3</u>	595	35.3	2	<u>539</u>	<u>39.0</u>	538	39.0	539	38.9
456.hammer	2	<u>669</u>	<u>27.9</u>	668	27.9	669	27.9	2	661	28.2	<u>661</u>	<u>28.2</u>	661	28.2
458.sjeng	2	762	31.8	762	31.8	<u>762</u>	<u>31.8</u>	2	681	35.5	<u>681</u>	<u>35.6</u>	680	35.6
462.libquantum	2	1318	31.4	<u>1319</u>	<u>31.4</u>	1331	31.1	2	<u>1007</u>	<u>41.1</u>	1005	41.2	1009	41.1
464.h264ref	2	816	54.2	<u>817</u>	<u>54.2</u>	817	54.2	2	770	57.5	<u>770</u>	<u>57.5</u>	770	57.5
471.omnetpp	2	<u>482</u>	<u>25.9</u>	483	25.9	482	26.0	2	<u>441</u>	<u>28.3</u>	442	28.3	440	28.4
473.astar	2	<u>578</u>	<u>24.3</u>	579	24.3	578	24.3	2	544	25.8	<u>544</u>	<u>25.8</u>	544	25.8
483.xalancbmk	2	354	39.0	<u>353</u>	<u>39.1</u>	353	39.1	2	<u>351</u>	<u>39.3</u>	351	39.3	352	39.2

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Tested systems can be used with Shin-G ATX case, Antec NeoPower 480W power supply
Product description located as of 7/2007:
<http://usa.asus.com/products.aspx?l1=3&l2=11&l3=534&l4=0&model=1645&modelmenu=1>
The system bus runs at 1333 MHz
System has a discrete gfx card - Asus EN8800GTX/HTDP/768M w/ nVidia 8800GTX
Binaries were built on Windows XP Professional SP2 with 4GB of RAM and /3GB boot switch
The start command with the /affinity switch was used to bind processes to cores

Base Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99
C++ benchmarks:
icl -Qvc7.1

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32



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Base Optimization Flags

C benchmarks:

`-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

C++ benchmarks:

`-fast -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE`

Base Other Flags

C benchmarks:

`403.gcc: -Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:

`icl -Qvc7.1 -Qc99`

C++ benchmarks:

`icl -Qvc7.1`

Peak Portability Flags

`403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32`

Peak Optimization Flags

C benchmarks:

`400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE`

`401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE`

`403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
-link /FORCE:MULTIPLE`

`429.mcf: basepeak = yes`

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Peak Optimization Flags (Continued)

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec_div- -Qansi-alias /F512000000
-link /FORCE:MULTIPLE

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
-Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.42.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.42.xml>

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For other inquiries, please contact webmaster@spec.org.

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