



SPEC® CINT2006 Result

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Intel Corporation

SPECint®_rate2006 = 34.5

Alienware Area-51 M15x-R1 (Intel Core 2 Extreme X9000)

SPECint_rate_base2006 = 32.2

CPU2006 license: 13

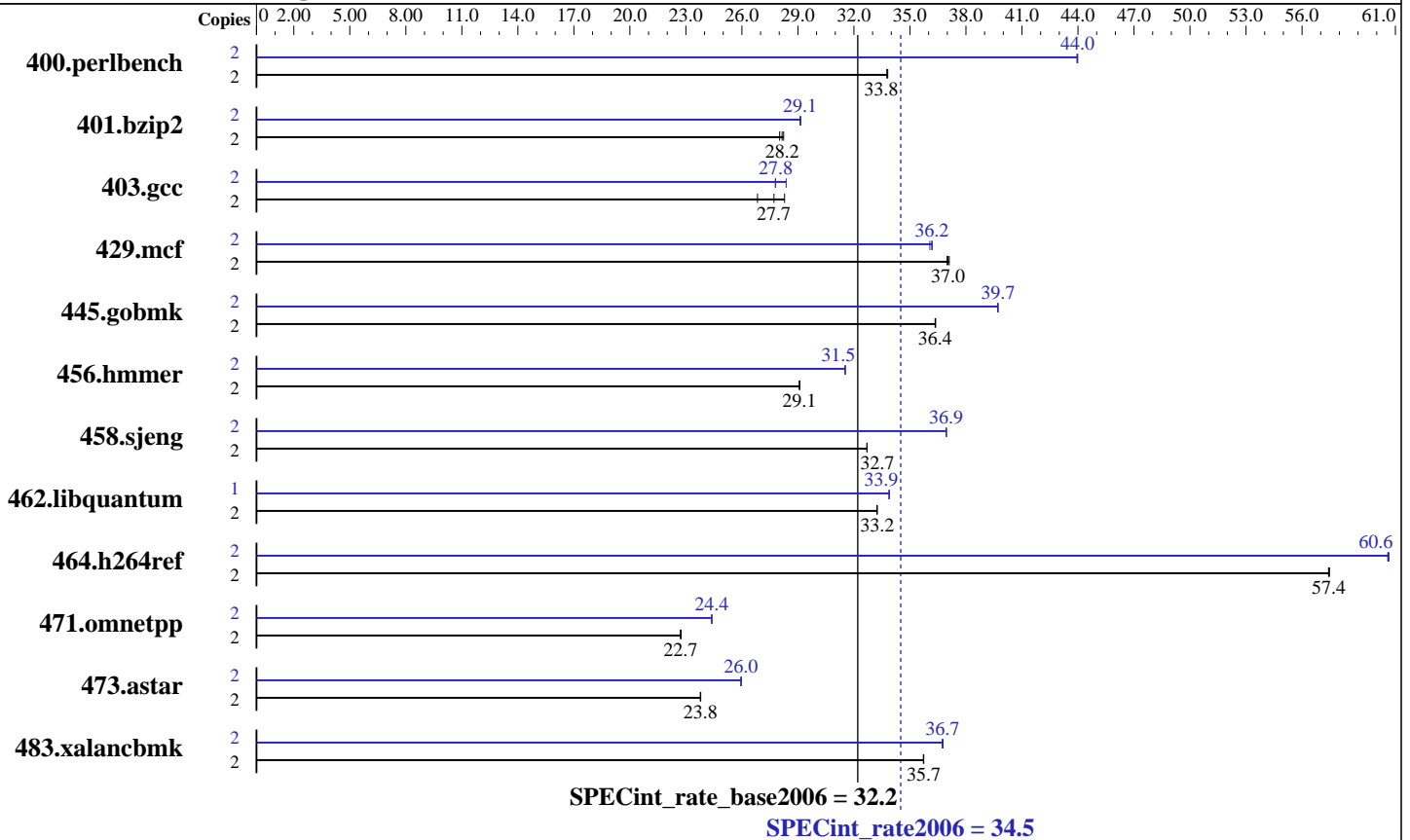
Test date: Dec-2007

Test sponsor: Intel Corporation

Hardware Availability: Jan-2008

Tested by: Intel Corporation

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Extreme X9000
 CPU Characteristics:
 CPU MHz: 2800
 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: 6 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2x1GB Qimonda DDR2-667 CL5)
 Disk Subsystem: Fujitsu 120GB GB SATA, 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Vista Ultimate(32-bit)
 Compiler: Intel C++ Compiler for IA32 version 10.1
 Build 20070913 Package ID: w_cc_p_10.1.011
 Microsoft Visual Studio 2005 SP1 (for libraries)
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None
 SmartHeap Library Version 8.1 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	579	33.8	578	33.8	<u>579</u>	<u>33.8</u>	2	444	44.0	<u>444</u>	<u>44.0</u>	445	43.9
401.bzip2	2	689	28.0	684	28.2	<u>686</u>	<u>28.2</u>	2	<u>663</u>	<u>29.1</u>	663	29.1	662	29.2
403.gcc	2	<u>581</u>	<u>27.7</u>	569	28.3	600	26.8	2	568	28.4	<u>579</u>	<u>27.8</u>	579	27.8
429.mcf	2	492	37.1	<u>492</u>	<u>37.0</u>	493	37.0	2	504	36.2	506	36.1	<u>504</u>	<u>36.2</u>
445.gobmk	2	577	36.4	<u>577</u>	<u>36.4</u>	577	36.4	2	<u>528</u>	<u>39.7</u>	529	39.7	528	39.7
456.hammer	2	642	29.1	641	29.1	<u>642</u>	<u>29.1</u>	2	<u>592</u>	<u>31.5</u>	592	31.5	592	31.5
458.sjeng	2	<u>740</u>	<u>32.7</u>	740	32.7	740	32.7	2	<u>655</u>	<u>36.9</u>	655	36.9	655	36.9
462.libquantum	2	<u>1247</u>	<u>33.2</u>	1247	33.2	1246	33.2	1	612	33.9	611	33.9	<u>611</u>	<u>33.9</u>
464.h264ref	2	770	57.5	<u>771</u>	<u>57.4</u>	771	57.4	2	<u>730</u>	<u>60.6</u>	730	60.6	730	60.7
471.omnetpp	2	550	22.7	<u>550</u>	<u>22.7</u>	550	22.7	2	512	24.4	<u>513</u>	<u>24.4</u>	513	24.4
473.astar	2	591	23.8	<u>590</u>	<u>23.8</u>	590	23.8	2	541	26.0	541	25.9	<u>541</u>	<u>26.0</u>
483.xalancbmk	2	386	35.7	<u>386</u>	<u>35.7</u>	386	35.7	2	376	36.7	375	36.8	<u>376</u>	<u>36.7</u>

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

General Notes

The system bus runs at 800 MHz
 Binaries were built on Windows Vista32
 The following VS 2005 SP1 updates were applied: KB926601 and KB932232
 OMP_NUM_THREADS set to number of cores
 KMP_AFFINITY set to physical,0
 The start command with the /affinity switch was used to bind processes to cores

Base Compiler Invocation

C benchmarks:
 icl -Qvc8 -Qc99

C++ benchmarks:
 icl -Qvc8

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
 464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
 483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword



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Base Optimization Flags

C benchmarks:

-fast -Qvec-guard-write /F512000000

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 -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

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 -Qprefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000

429.mcf: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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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

456.hmmr: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias -Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
/F512000000

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=block -Qcxx_features /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=routine -Qcxx_features /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: -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.20090714.09.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.20090714.09.xml>



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