



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 35.0

Dell Precision M6300 (Intel X9000, 2.80 GHz)

SPECint_rate_base2006 = 33.1

CPU2006 license: 55

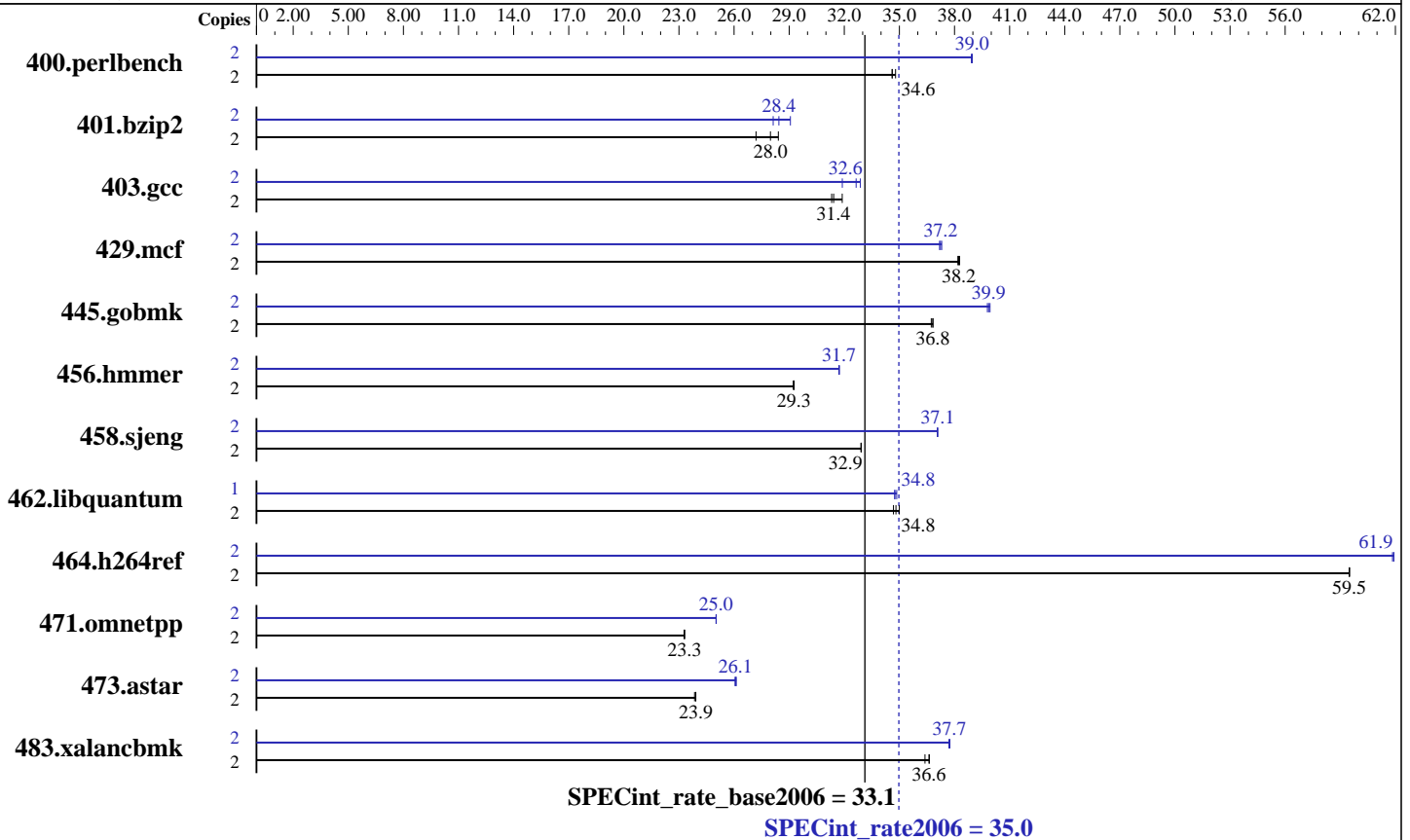
Test date: Apr-2008

Test sponsor: Dell Inc.

Hardware Availability: Mar-2008

Tested by: Dell Inc.

Software Availability: Mar-2008



Hardware

CPU Name: Intel Core 2 Extreme X9000
 CPU Characteristics: 800 MHz Bus Speed
 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: 4 GB (2x2 GB 667 MHz CL5 DDR2)
 Disk Subsystem: 1 x 120GB SATA 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Vista Ultimate (64-bit)
 Compiler: Intel C++ Compiler for IA-32, Version 10.1
 Build 20080312 Package ID: w_cc_p_10.1.021
 Microsoft Visual Studio 2005 SP1
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library 8.1



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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	562	34.8	<u>565</u>	<u>34.6</u>	565	34.6	2	502	39.0	502	38.9	<u>502</u>	<u>39.0</u>
401.bzip2	2	<u>690</u>	<u>28.0</u>	679	28.4	710	27.2	2	664	29.1	686	28.1	<u>679</u>	<u>28.4</u>
403.gcc	2	<u>512</u>	<u>31.4</u>	505	31.9	514	31.3	2	<u>493</u>	<u>32.6</u>	505	31.9	490	32.9
429.mcf	2	477	38.3	<u>477</u>	<u>38.2</u>	478	38.2	2	491	37.2	<u>490</u>	<u>37.2</u>	489	37.3
445.gobmk	2	<u>570</u>	<u>36.8</u>	570	36.8	571	36.7	2	527	39.8	525	39.9	<u>526</u>	<u>39.9</u>
456.hammer	2	638	29.3	<u>638</u>	<u>29.3</u>	639	29.2	2	588	31.7	588	31.7	<u>588</u>	<u>31.7</u>
458.sjeng	2	<u>735</u>	<u>32.9</u>	735	32.9	735	32.9	2	653	37.1	<u>653</u>	<u>37.1</u>	653	37.1
462.libquantum	2	<u>1190</u>	<u>34.8</u>	1184	35.0	1195	34.7	1	594	34.9	596	34.7	<u>596</u>	<u>34.8</u>
464.h264ref	2	744	59.5	744	59.5	<u>744</u>	<u>59.5</u>	2	<u>715</u>	<u>61.9</u>	716	61.8	715	61.9
471.omnetpp	2	537	23.3	<u>536</u>	<u>23.3</u>	536	23.3	2	500	25.0	499	25.0	<u>500</u>	<u>25.0</u>
473.astar	2	587	23.9	<u>587</u>	<u>23.9</u>	589	23.8	2	<u>538</u>	<u>26.1</u>	537	26.1	539	26.0
483.xalancbmk	2	377	36.6	<u>377</u>	<u>36.6</u>	379	36.4	2	366	37.7	366	37.7	<u>366</u>	<u>37.7</u>

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

Base Compiler Invocation

C benchmarks:
icl -Qstd=c99

C++ benchmarks:
icl

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-fast -Qvec-guard-write /F512000000

C++ benchmarks:
-fast -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE



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Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:

icl -Qstd=c99

C++ benchmarks:

icl

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
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: Same as 401.bzip2
445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec-div- -Qansi-alias /F512000000
456.hmmer: -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 -Qunroll14 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000 shlw32mt.lib

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Peak Optimization Flags (Continued)

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12
-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/dell.ic10.1.windows.flags.20090714.html>

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

<http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090714.xml>

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

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