



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 40.9

Dell Precision T3400 (Intel E8500, 3.16 GHz)

SPECint_rate_base2006 = 38.3

CPU2006 license: 55

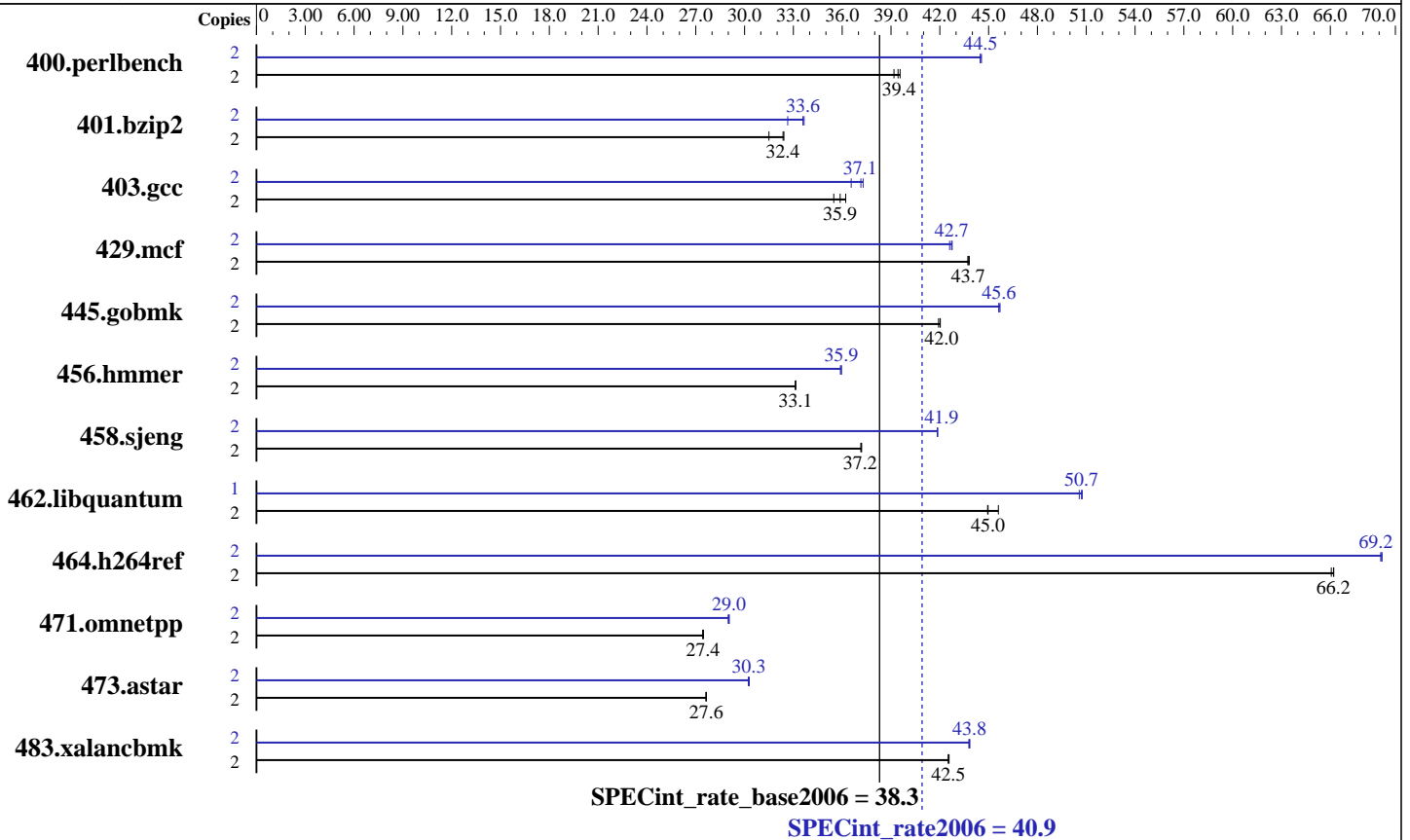
Test date: Apr-2008

Test sponsor: Dell Inc.

Hardware Availability: Jan-2008

Tested by: Dell Inc.

Software Availability: Mar-2008



Hardware

CPU Name: Intel Core 2 Duo E8500
 CPU Characteristics: 1333 MHz Bus Speed
 CPU MHz: 3166
 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: 8 GB (4x2 GB 800 MHz ECC CL6 DDR2)
 Disk Subsystem: 1 x 160 GB 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	<u>496</u>	<u>39.4</u>	499	39.2	494	39.6	2	439	44.5	<u>439</u>	<u>44.5</u>	439	44.6
401.bzip2	2	<u>596</u>	<u>32.4</u>	613	31.5	595	32.4	2	<u>575</u>	<u>33.6</u>	591	32.7	573	33.7
403.gcc	2	445	36.2	<u>449</u>	<u>35.9</u>	454	35.5	2	432	37.3	<u>433</u>	<u>37.1</u>	440	36.6
429.mcf	2	416	43.8	<u>417</u>	<u>43.7</u>	417	43.7	2	<u>427</u>	<u>42.7</u>	428	42.6	427	42.8
445.gobmk	2	499	42.0	<u>499</u>	<u>42.0</u>	500	41.9	2	460	45.6	<u>460</u>	<u>45.6</u>	459	45.7
456.hammer	2	<u>563</u>	<u>33.1</u>	563	33.1	563	33.1	2	520	35.9	519	35.9	<u>519</u>	<u>35.9</u>
458.sjeng	2	<u>651</u>	<u>37.2</u>	651	37.1	651	37.2	2	578	41.9	578	41.9	<u>578</u>	<u>41.9</u>
462.libquantum	2	909	45.6	<u>922</u>	<u>45.0</u>	922	44.9	1	<u>409</u>	<u>50.7</u>	410	50.6	408	50.8
464.h264ref	2	<u>669</u>	<u>66.2</u>	670	66.1	668	66.2	2	640	69.2	641	69.1	<u>640</u>	<u>69.2</u>
471.omnetpp	2	455	27.5	<u>455</u>	<u>27.4</u>	456	27.4	2	431	29.0	<u>430</u>	<u>29.0</u>	430	29.1
473.astar	2	508	27.6	508	27.6	<u>508</u>	<u>27.6</u>	2	464	30.2	464	30.3	<u>464</u>	<u>30.3</u>
483.xalancbmk	2	<u>325</u>	<u>42.5</u>	324	42.6	325	42.5	2	<u>315</u>	<u>43.8</u>	315	43.8	315	43.8

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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