



SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 35.9

Dell Precision T3500 (Intel Xeon W3580, 3.33 GHz)

SPECint_base2006 = 33.0

CPU2006 license: 55

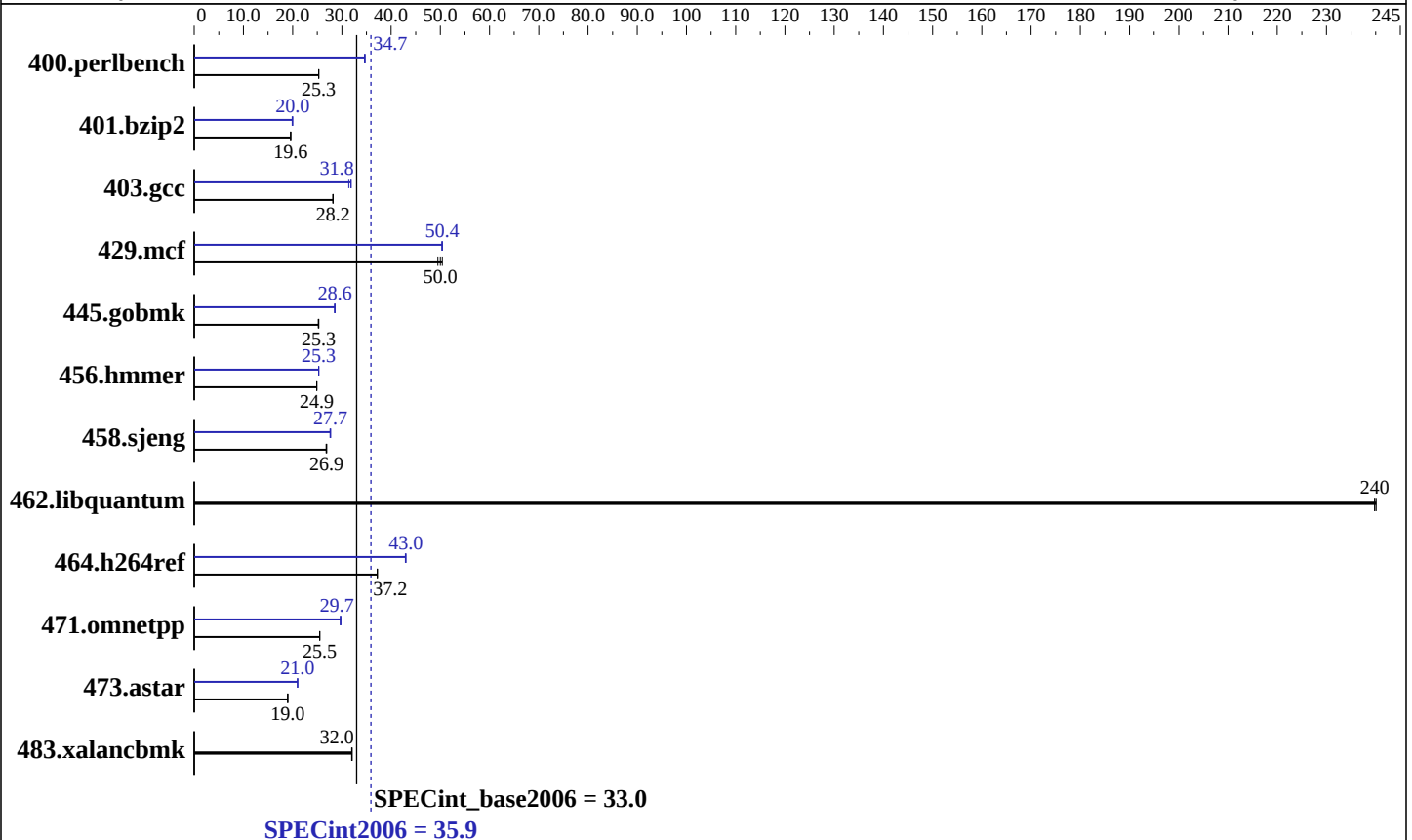
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jul-2009

Hardware Availability: Aug-2009

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon W3580
CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz
CPU MHz: 3333
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core
L3 Cache: 8 MB I+D on chip per chip
Other Cache: None
Memory: 24 GB (6x4 GB PC3-10600E)
Disk Subsystem: 1 x 80GB SATA 7200 RPM
Other Hardware: None

Software

Operating System: Windows Vista Ultimate SP1 (64-bit)
Compiler: Intel C++ Compiler for IA-32, Version 11.0
Build 20090131 Package ID: w_cproc_p_11.0.072
Microsoft Visual Studio 2008 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	386	25.3	386	25.3	<u>386</u>	<u>25.3</u>	281	34.7	282	34.6	<u>282</u>	<u>34.7</u>
401.bzip2	492	19.6	<u>492</u>	<u>19.6</u>	492	19.6	484	20.0	484	19.9	<u>484</u>	<u>20.0</u>
403.gcc	285	28.2	<u>285</u>	<u>28.2</u>	285	28.2	252	31.9	257	31.4	<u>253</u>	<u>31.8</u>
429.mcf	<u>183</u>	<u>50.0</u>	184	49.5	181	50.4	<u>181</u>	<u>50.4</u>	181	50.3	181	50.4
445.gobmk	415	25.3	<u>415</u>	<u>25.3</u>	416	25.2	367	28.6	368	28.5	<u>367</u>	<u>28.6</u>
456.hammer	<u>375</u>	<u>24.9</u>	375	24.9	375	24.9	369	25.3	<u>369</u>	<u>25.3</u>	369	25.3
458.sjeng	451	26.9	<u>451</u>	<u>26.9</u>	451	26.8	<u>438</u>	<u>27.7</u>	437	27.7	438	27.6
462.libquantum	86.3	240	<u>86.4</u>	<u>240</u>	86.4	240	86.3	240	<u>86.4</u>	<u>240</u>	86.4	240
464.h264ref	595	37.2	<u>595</u>	<u>37.2</u>	595	37.2	515	43.0	516	42.9	<u>515</u>	<u>43.0</u>
471.omnetpp	<u>245</u>	<u>25.5</u>	245	25.5	245	25.5	209	29.8	<u>210</u>	<u>29.7</u>	211	29.7
473.astar	370	19.0	<u>370</u>	<u>19.0</u>	370	19.0	335	21.0	334	21.0	<u>334</u>	<u>21.0</u>
483.xalancbmk	215	32.1	<u>215</u>	<u>32.0</u>	216	32.0	215	32.1	<u>215</u>	<u>32.0</u>	216	32.0

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

Platform Notes

BIOS Settings
Hyperthreading: ENABLE

General Notes

Binaries were built on Windows Vista Business (64-bit)

Base Compiler Invocation

C benchmarks:
icl -Qvc9 -Qstd=c99

C++ benchmarks:
icl -Qvc9

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:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qpar-runtime-control -Qvec-guard-write /F512000000

C++ benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx_features
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:

icl -Qvc9 -Qstd=c99

C++ benchmarks:

icl -Qvc9

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) -QxSSE4.2 -Qprof_use(pass 2) -Qipo -O3
-Qprec-div- -Qansi-alias -Qopt-prefetch /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -QxSSE4.2 -Qprof_use(pass 2) -Qipo -O3
-Qprec-div- /F512000000

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Peak Optimization Flags (Continued)

429.mcf: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

445.gobmk: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qprof_use(pass 2)
-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
/F512000000

458.sjeng: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias
-Qopt-ra-region-strategy=block /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias
-Qopt-ra-region-strategy=routine /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

483.xalancbmk: basepeak = yes

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.flags.ic11.0.win.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/dell.flags.ic11.0.win.xml>



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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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