



SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 34.0

Dell Precision T7500 (Intel Xeon X5570, 2.93 GHz)

SPECint_base2006 = 30.9

CPU2006 license: 55

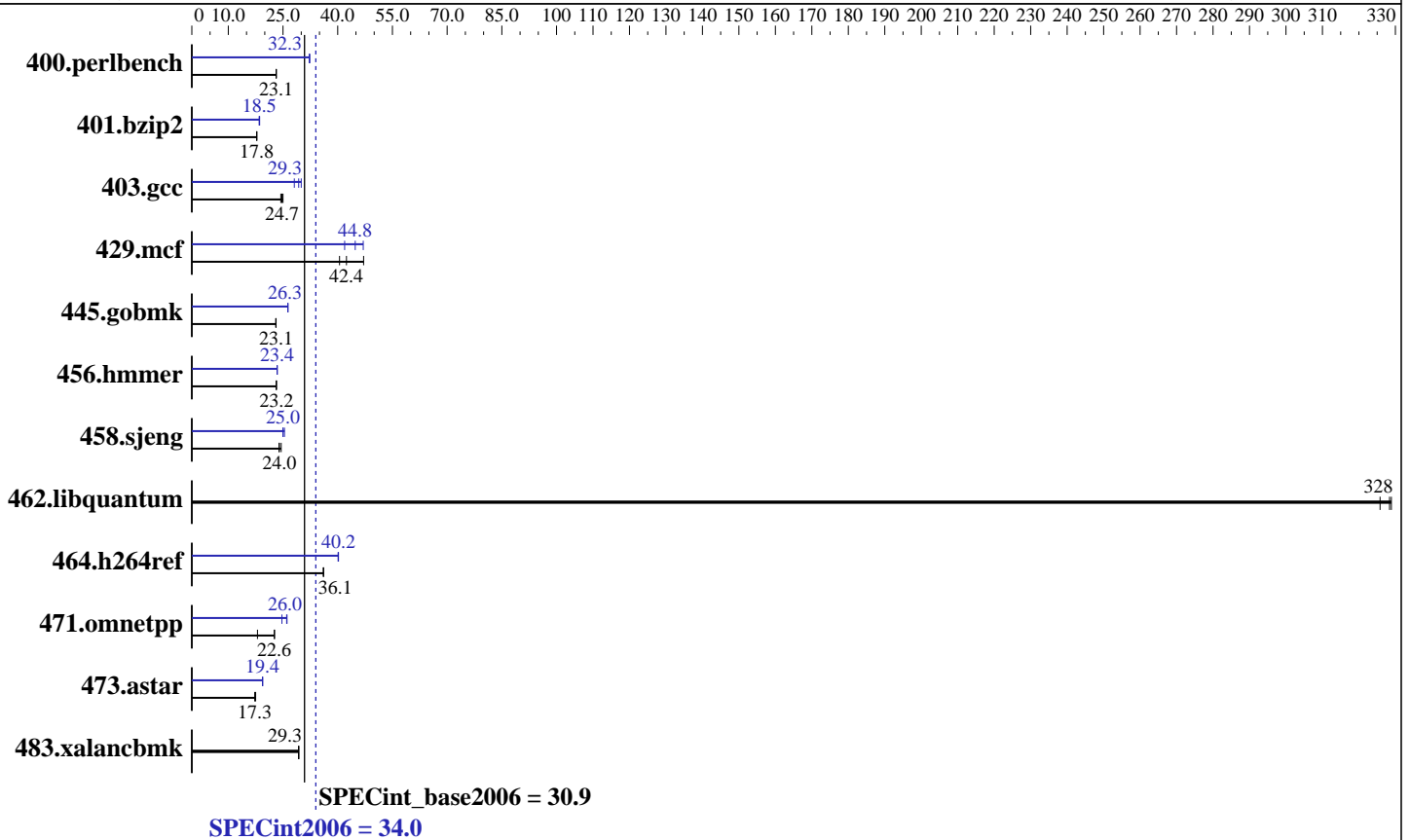
Test date: Mar-2009

Test sponsor: Dell Inc.

Hardware Availability: Apr-2009

Tested by: Dell Inc.

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon X5570
 CPU Characteristics: Intel Turbo Boost Technology up to 3.33 GHz
 CPU MHz: 2933
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 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 DDR3-1333R, ECC, CL9)
 Disk Subsystem: 1 x 146 GB SAS 15000 RPM
 Other Hardware: None

Software

Operating System: Windows Vista Business 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	<u>422</u>	<u>23.1</u>	422	23.1	422	23.2	<u>303</u>	<u>32.3</u>	303	32.3	303	32.2
401.bzip2	542	17.8	<u>542</u>	<u>17.8</u>	542	17.8	<u>520</u>	<u>18.5</u>	520	18.6	520	18.5
403.gcc	322	25.0	331	24.4	<u>326</u>	<u>24.7</u>	269	30.0	286	28.1	<u>275</u>	<u>29.3</u>
429.mcf	194	47.1	225	40.5	<u>215</u>	<u>42.4</u>	218	41.9	194	47.0	<u>204</u>	<u>44.8</u>
445.gobmk	<u>455</u>	<u>23.1</u>	455	23.1	455	23.0	<u>399</u>	<u>26.3</u>	399	26.3	398	26.4
456.hammer	402	23.2	<u>403</u>	<u>23.2</u>	403	23.1	398	23.4	398	23.4	<u>398</u>	<u>23.4</u>
458.sjeng	507	23.9	<u>504</u>	<u>24.0</u>	494	24.5	<u>483</u>	<u>25.0</u>	476	25.4	484	25.0
462.libquantum	63.6	326	<u>63.1</u>	<u>328</u>	63.0	329	63.6	326	<u>63.1</u>	<u>328</u>	63.0	329
464.h264ref	613	36.1	613	36.1	<u>613</u>	<u>36.1</u>	<u>550</u>	<u>40.2</u>	550	40.2	551	40.1
471.omnetpp	276	22.7	348	18.0	<u>276</u>	<u>22.6</u>	253	24.7	240	26.1	<u>240</u>	<u>26.0</u>
473.astar	<u>406</u>	<u>17.3</u>	400	17.5	406	17.3	362	19.4	<u>361</u>	<u>19.4</u>	361	19.4
483.xalancbmk	236	29.3	<u>236</u>	<u>29.3</u>	236	29.3	236	29.3	<u>236</u>	<u>29.3</u>	236	29.3

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

Platform Notes

BIOS Settings
Memory Node Interleaving set to NUMA.

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.xalanbmk: -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.hmmr: -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.ic11.0.windows.flags.20090710.html>

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

<http://www.spec.org/cpu2006/flags/dell.ic11.0.windows.flags.20090710.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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