



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint®2006 = 34.6

Dell Precision T7500 (Intel Xeon W5580, 3.20 GHz)

SPECint_base2006 = 32.3

CPU2006 license: 55

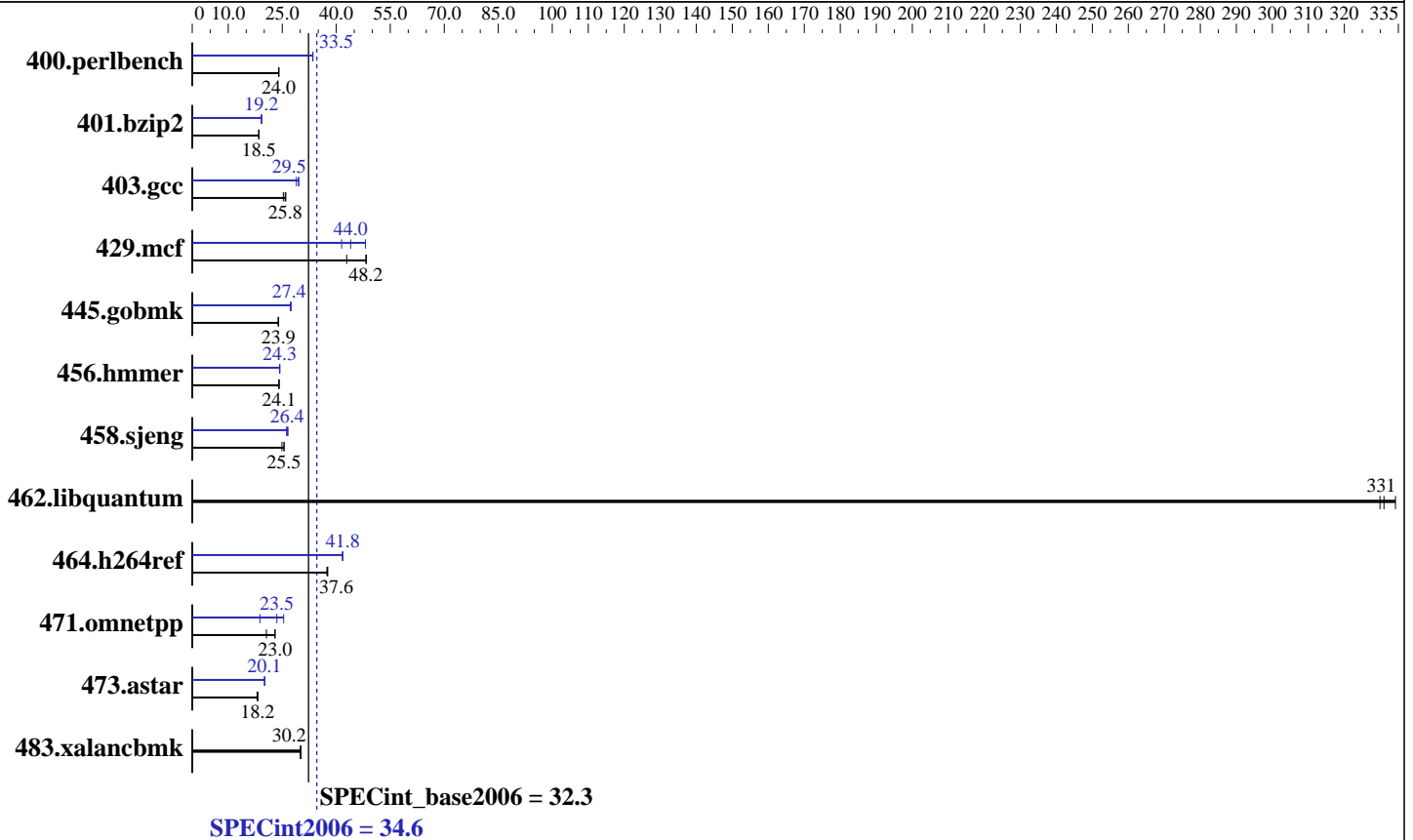
Test date: Mar-2009

Test sponsor: Dell Inc.

Hardware Availability: Apr-2009

Tested by: Dell Inc.

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon W5580
 CPU Characteristics: Intel Turbo Boost Technology up to 3.46 GHz
 CPU MHz: 3200
 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	406	24.1	407	24.0	407	24.0	291	33.5	291	33.5	291	33.5
401.bzip2	522	18.5	522	18.5	522	18.5	502	19.2	501	19.3	502	19.2
403.gcc	319	25.3	312	25.8	310	26.0	278	28.9	272	29.6	273	29.5
429.mcf	213	42.9	189	48.2	188	48.4	207	44.0	190	48.1	220	41.5
445.gobmk	438	23.9	438	23.9	438	24.0	385	27.3	382	27.4	382	27.4
456.hammer	388	24.1	387	24.1	388	24.1	384	24.3	383	24.3	384	24.3
458.sjeng	487	24.9	475	25.5	475	25.5	458	26.4	456	26.6	462	26.2
462.libquantum	62.8	330	62.0	334	62.6	331	62.8	330	62.0	334	62.6	331
464.h264ref	592	37.4	589	37.6	589	37.6	530	41.8	529	41.8	531	41.7
471.omnetpp	272	23.0	304	20.6	272	23.0	266	23.5	247	25.4	333	18.8
473.astar	387	18.2	391	18.0	386	18.2	349	20.1	349	20.1	349	20.1
483.xalancbmk	229	30.2	230	30.0	228	30.2	229	30.2	230	30.0	228	30.2

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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