



SPEC® CINT2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

Dell Inc.

SPECint®2006 = 20.2

Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECint_base2006 = 18.5

CPU2006 license: 55

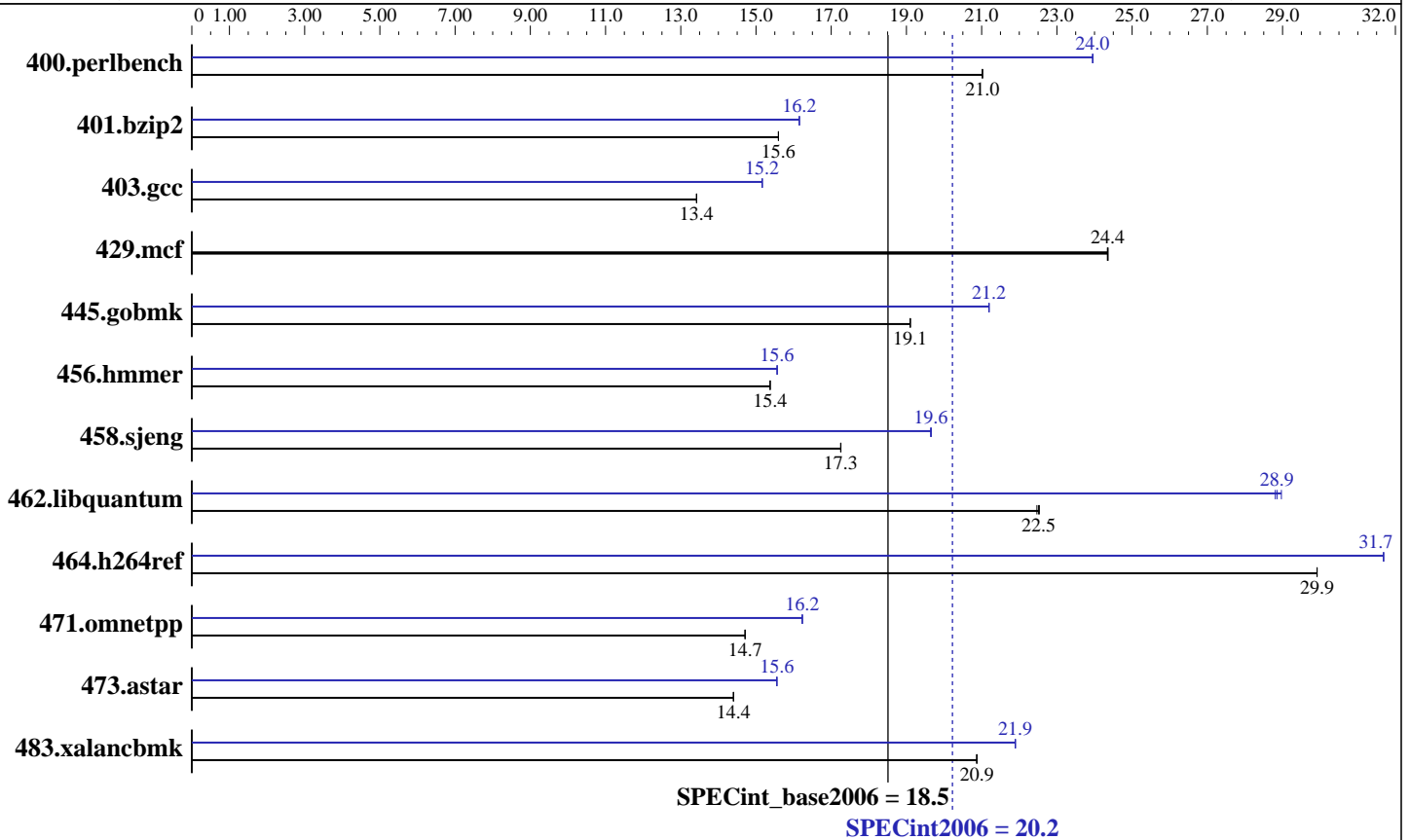
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: Sep-2007

Tested by: Dell Inc.

Software Availability: Jun-2007



Hardware

CPU Name: Intel Core 2 Extreme X6800
 CPU Characteristics: 1066 MHz Bus Speed
 CPU MHz: 2933
 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: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1 GB 667 MHz ECC CL5 DDR2)
 Disk Subsystem: 1 x 80 GB SATA 7200 RPM
 Other Hardware: None

Software

Operating System: Windows XP Professional x64 Edition SP2
 Compiler: Intel C++ Compiler for IA-32, Version 10.0
 Build 20070426 Package ID: W_CC_P_10.0.025
 Microsoft Visual Studio 2005 SP1
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library 8.0



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	465	21.0	465	21.0	465	21.0	408	23.9	408	24.0	408	24.0
401.bzip2	619	15.6	619	15.6	619	15.6	597	16.2	597	16.2	597	16.2
403.gcc	600	13.4	600	13.4	600	13.4	531	15.2	531	15.2	531	15.2
429.mcf	375	24.3	374	24.4	375	24.4	375	24.3	374	24.4	375	24.4
445.gobmk	549	19.1	549	19.1	549	19.1	495	21.2	495	21.2	495	21.2
456.hammer	607	15.4	607	15.4	607	15.4	600	15.6	600	15.6	600	15.6
458.sjeng	701	17.3	701	17.3	701	17.3	615	19.7	616	19.6	616	19.6
462.libquantum	922	22.5	920	22.5	920	22.5	718	28.9	715	29.0	719	28.8
464.h264ref	740	29.9	740	29.9	740	29.9	698	31.7	698	31.7	698	31.7
471.omnetpp	425	14.7	425	14.7	425	14.7	385	16.2	385	16.2	385	16.2
473.astar	487	14.4	487	14.4	487	14.4	451	15.6	451	15.6	451	15.6
483.xalancbmk	331	20.9	331	20.9	331	20.9	315	21.9	315	21.9	315	21.9

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

General Notes

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

Compiler Invocation

C benchmarks:
icl -Qstd=c99

C++ benchmarks:
icl

Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Base Optimization Flags

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

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



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Peak Optimization Flags

C benchmarks:

400.perlbench: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qansi-alias -Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

401.bzip2: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

403.gcc: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
/F512000000 -link /FORCE:MULTIPLE

429.mcf: basepeak = yes

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

456.hmmer: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll12 -Qansi-alias /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

458.sjeng: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll14 /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

462.libquantum: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll14 -Ob0 -Qprefetch -Qopt-streaming-stores:always
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:

ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

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.windows.flags.html>



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

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

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