



SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 20.2

Dell Precision 690 (Intel 5160, 3.00 GHz)

SPECint_base2006 = 18.4

CPU2006 license: 55

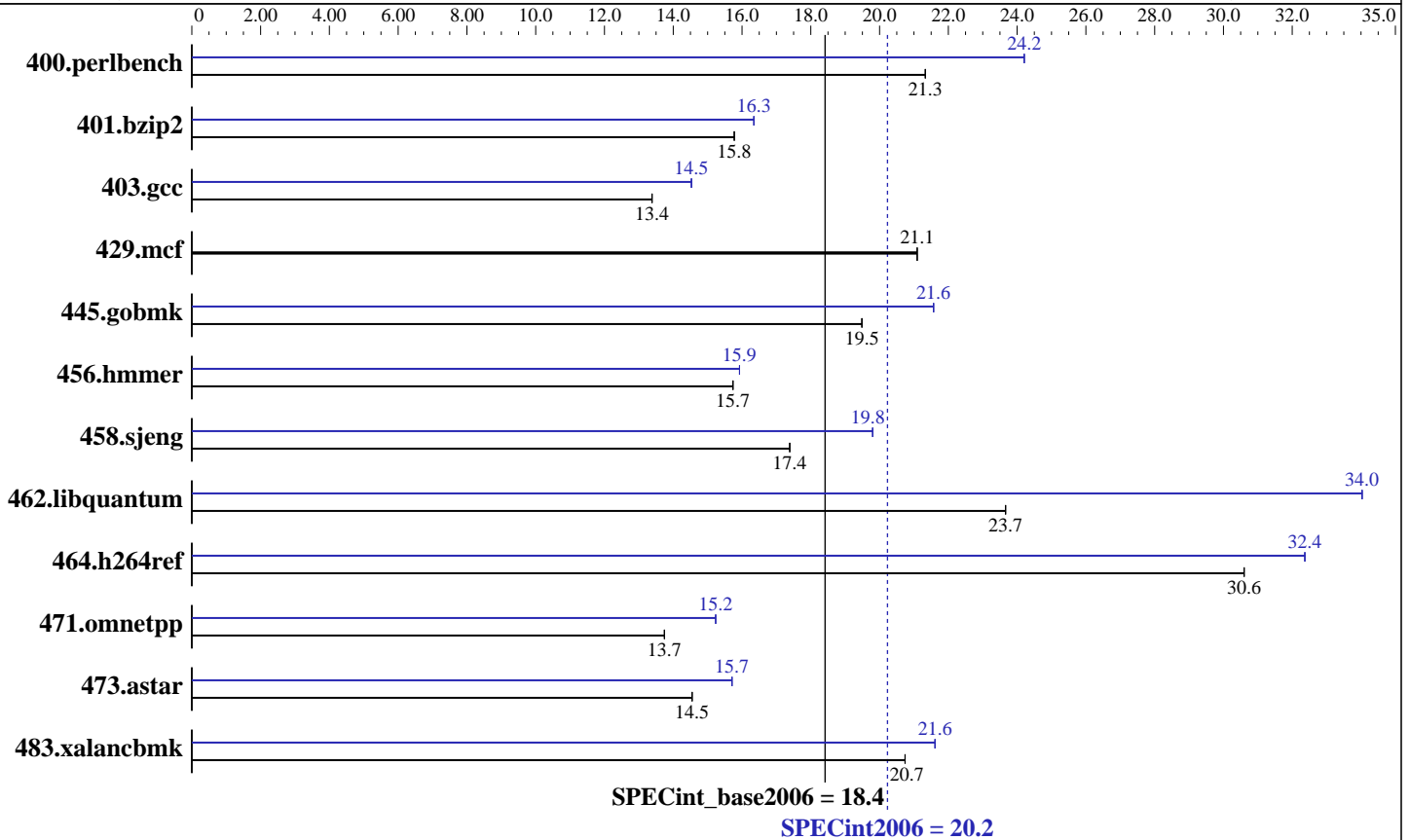
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: May-2006

Tested by: Dell Inc.

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 1333 MHz Bus Speed
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 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: 8 GB (8x1 GB 667 MHz ECC CL5 FB-DIMM)
 Disk Subsystem: 1 x 73GB SAS 10K 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	458	21.3	458	21.3	458	21.3	403	24.2	404	24.2	404	24.2
401.bzip2	612	15.8	612	15.8	612	15.8	590	16.3	590	16.3	590	16.3
403.gcc	602	13.4	602	13.4	601	13.4	554	14.5	554	14.5	554	14.5
429.mcf	432	21.1	432	21.1	432	21.1	432	21.1	432	21.1	432	21.1
445.gobmk	538	19.5	538	19.5	538	19.5	486	21.6	486	21.6	486	21.6
456.hammer	593	15.7	593	15.7	593	15.7	586	15.9	586	15.9	586	15.9
458.sjeng	696	17.4	696	17.4	696	17.4	611	19.8	611	19.8	611	19.8
462.libquantum	876	23.7	876	23.7	876	23.7	609	34.0	609	34.0	609	34.0
464.h264ref	723	30.6	723	30.6	723	30.6	684	32.4	684	32.4	684	32.4
471.omnetpp	455	13.7	455	13.7	455	13.7	410	15.2	410	15.2	410	15.2
473.astar	483	14.5	483	14.5	483	14.5	447	15.7	447	15.7	447	15.7
483.xalancbmk	333	20.7	333	20.7	333	20.7	319	21.6	319	21.6	319	21.6

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)

BIOS Settings

Snoop Filter : OFF
Adjacent Cache Line Prefetch : ON
Hardware Prefetcher : ON

Snoop Filter

Preserves cache coherency while minimizing snoops to remote nodes.

Adjacent Cache Line Prefetch

Prefetch data in order to shorten execution cycles and maximize data processing efficiency.

Compiler Invocation

C benchmarks:
icl -Qstd=c99

C++ benchmarks:
icl



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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

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.hmmmer: 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.hmmmer

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Peak Optimization Flags (Continued)

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>

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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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 14 18:46:35 2009 by SPEC CPU2006 PS/PDF formatter v6323.