



SPEC® CINT2006 Result

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Dell Inc.

Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECint®_rate2006 = 30.2

SPECint_rate_base2006 = 29.2

CPU2006 license: 55

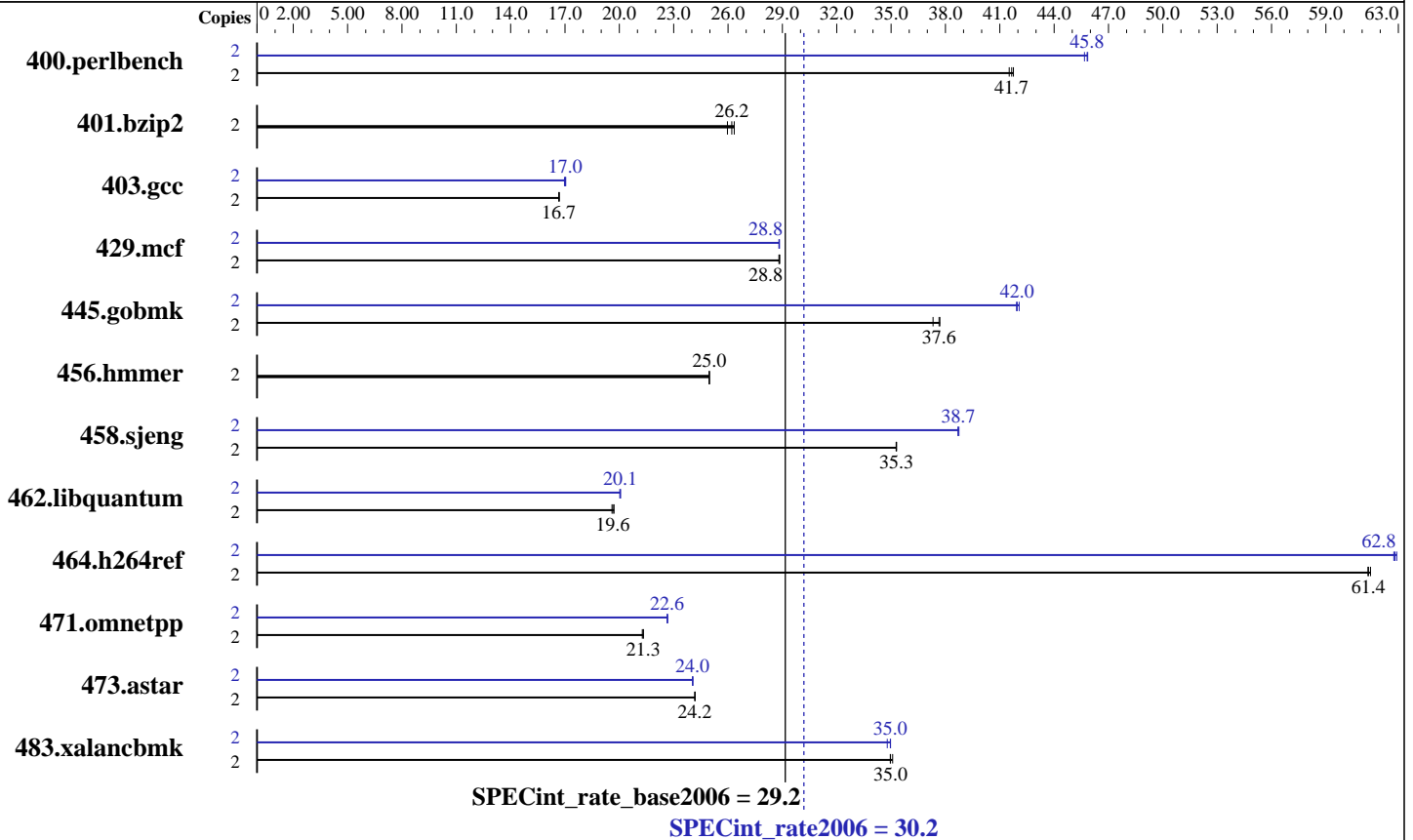
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jan-2007

Hardware Availability: May-2006

Software Availability: Jan-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 DDR2 FB-DIMM)
 Disk Subsystem: 1 x 72 GB SAS 10K RPM
 Other Hardware: None

Software

Operating System: Windows XP Professional x64 Edition
 Compiler: Intel C++ Compiler 9.1 for IA32 (20061103Z)
 Microsoft Visual Studio 2005
 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	468	41.8	471	41.5	469	41.7	2	426	45.8	428	45.7	426	45.9
401.bzip2	2	733	26.3	743	26.0	736	26.2	2	733	26.3	743	26.0	736	26.2
403.gcc	2	965	16.7	966	16.7	966	16.7	2	945	17.0	946	17.0	949	17.0
429.mcf	2	632	28.9	633	28.8	633	28.8	2	633	28.8	632	28.8	633	28.8
445.gobmk	2	557	37.6	562	37.3	557	37.7	2	500	41.9	500	42.0	499	42.1
456.hammer	2	747	25.0	747	25.0	748	25.0	2	747	25.0	747	25.0	748	25.0
458.sjeng	2	686	35.3	686	35.3	686	35.3	2	625	38.7	625	38.7	625	38.7
462.libquantum	2	2115	19.6	2103	19.7	2109	19.6	2	2066	20.1	2065	20.1	2069	20.0
464.h264ref	2	721	61.4	720	61.5	722	61.3	2	705	62.8	704	62.9	705	62.7
471.omnetpp	2	586	21.3	586	21.3	588	21.3	2	552	22.6	552	22.6	551	22.7
473.astar	2	581	24.2	581	24.2	581	24.2	2	583	24.1	584	24.0	584	24.0
483.xalancbmk	2	395	35.0	393	35.1	395	35.0	2	397	34.8	395	35.0	395	35.0

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

General Notes

BIOS Settings

Adjacent Cache Line Prefetch set to ON:
Prefetch data in order to shorten execution cycles and maximize data processing efficiency.

Snoop Filter set to OFF

Snoop Filter preserves cache coherency while minimizing snoops to remote nodes.

32-bit binaries were built on Windows XP Professional x64 Edition

Base Compiler Invocation

C benchmarks:
icl -Qc99

C++ benchmarks:
icl

Base Portability Flags

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

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Base Portability Flags (Continued)

483.xalanbmk: -Qoption,cpp,--no_wchar_t_keyword

Base Optimization Flags

C benchmarks:
-fast /F512000000 shlW32M.lib -link /FORCE:MULTIPLE

C++ benchmarks:
-fast -Qcxx_features /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:
icl -Qc99

C++ benchmarks:
icl

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: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
/F512000000 shlW32M.lib -link /FORCE:MULTIPLE

401.bzip2: basepeak = yes

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Peak Optimization Flags (Continued)

403.gcc: Same as 400.perlbench

429.mcf: ONESTEP -fast /F512000000 sh1W32M.lib
-link /FORCE:MULTIPLE

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
sh1W32M.lib -link /FORCE:MULTIPLE

456.hmmer: basepeak = yes

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qcxx_features /F512000000 sh1W32M.lib
-link /FORCE:MULTIPLE

473.astar: Same as 471.omnetpp

483.xalancbmk: ONESTEP -fast -Qcxx_features /F512000000 sh1W32M.lib
-link /FORCE:MULTIPLE

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.cpu2006.ic91.flags.20090715.html>

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

<http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.xml>



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