



SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 26.6

Dell Precision R5400 (Intel Xeon E5450, 3.00 GHz)

SPECint_base2006 = 24.2

CPU2006 license: 55

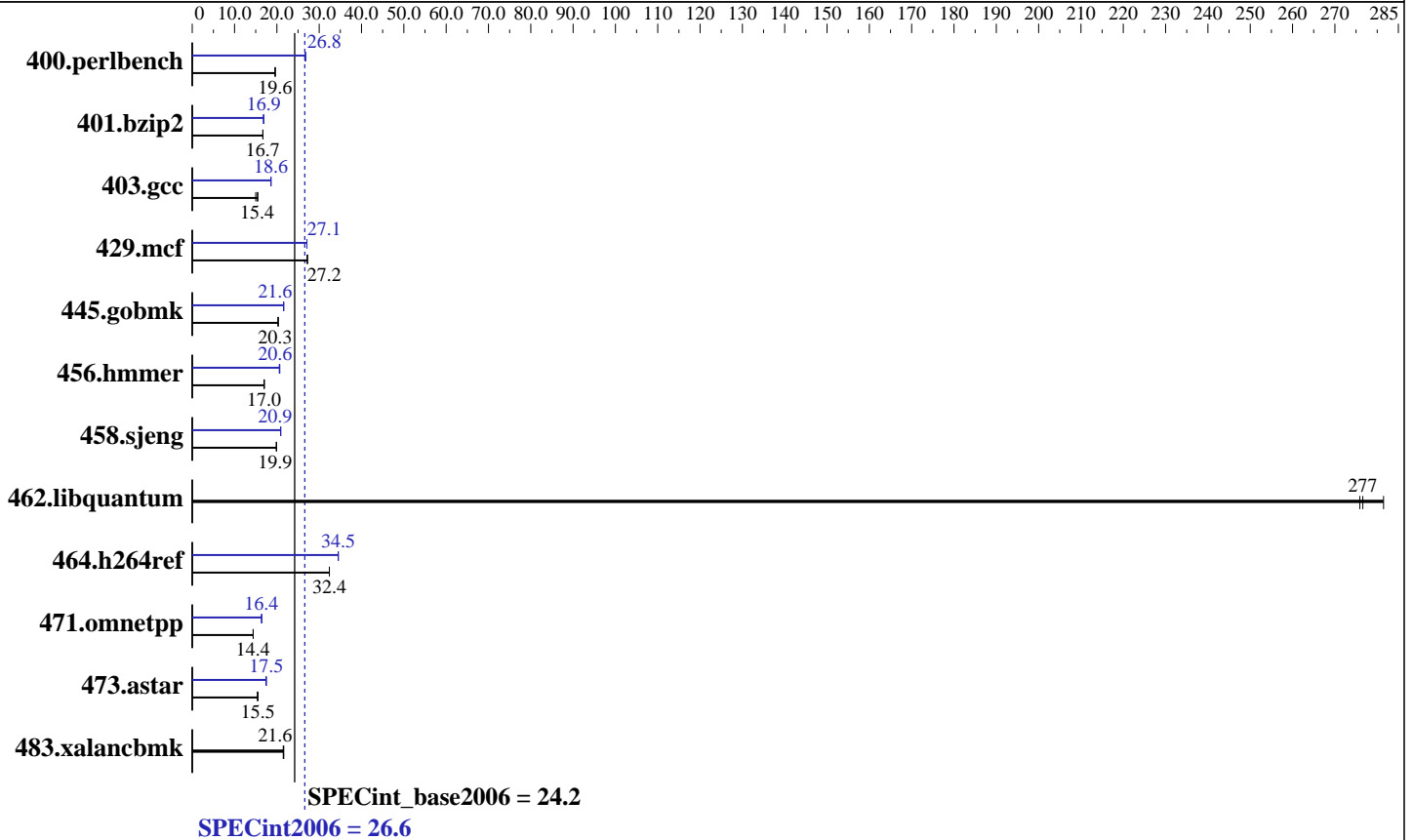
Test date: Dec-2008

Test sponsor: Dell Inc.

Hardware Availability: Oct-2008

Tested by: Dell Inc.

Software Availability: Nov-2008



Hardware

CPU Name: Intel Xeon E5450
 CPU Characteristics: 1333 MHz Bus Speed
 CPU MHz: 3000
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (4x4 GB DDR2-667 FB-DIMM, CL5)
 Disk Subsystem: 1 x 320 GB SATA 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Vista Business SP1 (64-bit)
 Compiler: Intel C++ Compiler for IA-32, Version 11.0
 Build 20080930 Package ID: w_cproc_p_11.0.061
 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	500	19.6	<u>500</u>	<u>19.6</u>	498	19.6	<u>365</u>	<u>26.8</u>	365	26.8	366	26.7
401.bzip2	<u>576</u>	<u>16.7</u>	576	16.7	576	16.7	<u>573</u>	<u>16.9</u>	572	16.9	573	16.8
403.gcc	<u>521</u>	<u>15.4</u>	521	15.5	536	15.0	<u>433</u>	<u>18.6</u>	434	18.6	433	18.6
429.mcf	336	27.2	<u>336</u>	<u>27.2</u>	335	27.2	337	27.1	336	27.1	<u>336</u>	<u>27.1</u>
445.gobmk	518	20.3	517	20.3	<u>517</u>	<u>20.3</u>	485	21.6	<u>485</u>	<u>21.6</u>	485	21.6
456.hammer	550	17.0	<u>550</u>	<u>17.0</u>	550	17.0	452	20.6	<u>452</u>	<u>20.6</u>	452	20.7
458.sjeng	<u>608</u>	<u>19.9</u>	609	19.9	607	19.9	580	20.9	578	20.9	<u>578</u>	<u>20.9</u>
462.libquantum	<u>74.9</u>	<u>277</u>	75.1	276	73.6	282	<u>74.9</u>	<u>277</u>	75.1	276	73.6	282
464.h264ref	<u>684</u>	<u>32.4</u>	684	32.4	683	32.4	642	34.5	<u>642</u>	<u>34.5</u>	642	34.5
471.omnetpp	433	14.4	<u>433</u>	<u>14.4</u>	433	14.4	380	16.4	<u>381</u>	<u>16.4</u>	381	16.4
473.astar	455	15.4	<u>454</u>	<u>15.5</u>	454	15.5	<u>402</u>	<u>17.5</u>	402	17.4	402	17.5
483.xalancbmk	321	21.5	319	21.6	<u>319</u>	<u>21.6</u>	321	21.5	319	21.6	<u>319</u>	<u>21.6</u>

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
Adjacent Cache Line Prefetch set to ON

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:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qpar-runtime-control -Qvec-guard-write /F512000000

C++ benchmarks:

-QxSSE4.1 -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) -QxSSE4.1 -Qprof_use(pass 2) -Qipo -O3
-Qprec-div- -Qansi-alias -Qopt-prefetch /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -QxSSE4.1 -Qprof_use(pass 2) -Qipo -O3
-Qprec-div- /F512000000

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Peak Optimization Flags (Continued)

429.mcf: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

445.gobmk: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmr: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
/F512000000

458.sjeng: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -QxSSE4.1(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) -QxSSE4.1(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.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.xml>



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

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