



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 64.1

PowerEdge 1955 (Intel Xeon E5310, 1.60 GHz)

SPECint_rate_base2006 = 59.0

CPU2006 license: 55

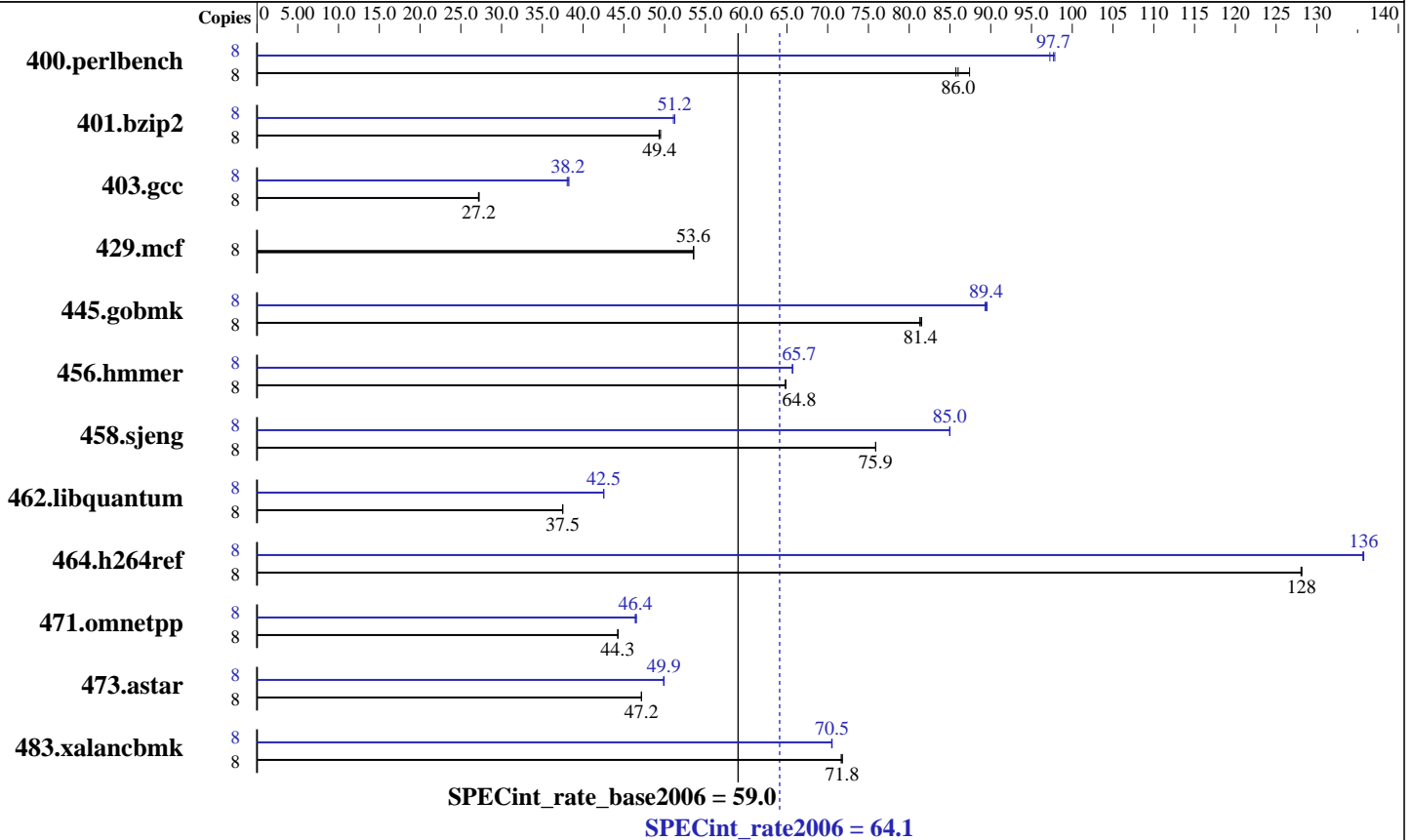
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: Dec-2006

Tested by: Dell Inc.

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon E5310
 CPU Characteristics: 1066 MHz Bus Speed
 CPU MHz: 1600
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (8 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
 Disk Subsystem: 2 x 73 GB SAS, 10000RPM
 Other Hardware: 1 X Gigabit Ethernet card Dual Port Integrated

Software

Operating System: Microsoft Windows Server 2003 Enterprise x64 Edition
 Compiler: Intel C++ Compiler for IA32 version 10.0
 Build 20070426 Package ID: W_CC_P_10.0.025
 Microsoft Visual Studio .Net 2003 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library Version 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	8	894	87.4	912	85.7	<u>909</u>	<u>86.0</u>	8	799	97.9	<u>800</u>	<u>97.7</u>	804	97.3
401.bzip2	8	1566	49.3	<u>1564</u>	<u>49.4</u>	1559	49.5	8	<u>1507</u>	<u>51.2</u>	1512	51.1	1507	51.2
403.gcc	8	2364	27.2	2371	27.2	<u>2367</u>	<u>27.2</u>	8	1683	38.3	<u>1688</u>	<u>38.2</u>	1693	38.0
429.mcf	8	<u>1362</u>	<u>53.6</u>	1363	53.5	1362	53.6	8	<u>1362</u>	<u>53.6</u>	1363	53.5	1362	53.6
445.gobmk	8	<u>1031</u>	<u>81.4</u>	1032	81.3	1029	81.5	8	937	89.6	<u>938</u>	<u>89.4</u>	940	89.3
456.hmmmer	8	<u>1151</u>	<u>64.8</u>	1151	64.8	1151	64.8	8	1136	65.7	1136	65.7	<u>1136</u>	<u>65.7</u>
458.sjeng	8	<u>1275</u>	<u>75.9</u>	1276	75.9	1275	75.9	8	1139	85.0	1139	85.0	<u>1139</u>	<u>85.0</u>
462.libquantum	8	<u>4421</u>	<u>37.5</u>	4423	37.5	4419	37.5	8	3896	42.5	3900	42.5	<u>3897</u>	<u>42.5</u>
464.h264ref	8	1381	128	<u>1382</u>	<u>128</u>	1382	128	8	1304	136	1305	136	<u>1304</u>	<u>136</u>
471.omnetpp	8	1130	44.3	<u>1130</u>	<u>44.3</u>	1129	44.3	8	1077	46.4	<u>1077</u>	<u>46.4</u>	1074	46.5
473.astar	8	<u>1191</u>	<u>47.2</u>	1191	47.2	1191	47.1	8	<u>1125</u>	<u>49.9</u>	1126	49.9	1125	49.9
483.xalancbmk	8	769	71.8	<u>769</u>	<u>71.8</u>	770	71.7	8	<u>783</u>	<u>70.5</u>	783	70.5	783	70.5

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

General Notes

"start /b /wait /affinity" used to bind processes to cores

Base Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Base Portability Flags

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



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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 -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Peak Portability Flags

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

Peak Optimization Flags

C benchmarks:

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

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

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

429.mcf: basepeak = yes

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Peak Optimization Flags (Continued)

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

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
-Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.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-Intel-ic10-ia32.html>

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

<http://www.spec.org/cpu2006/flags/Dell-Intel-ic10-ia32.xml>

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

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