



SPEC[®] CINT2006 Result

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Dell Inc.

SPECint[®]2006 = 11.4

PowerEdge 6950 (AMD Opteron 8220 SE, 2.8 GHz)

SPECint_base2006 = 10.6

CPU2006 license: 55

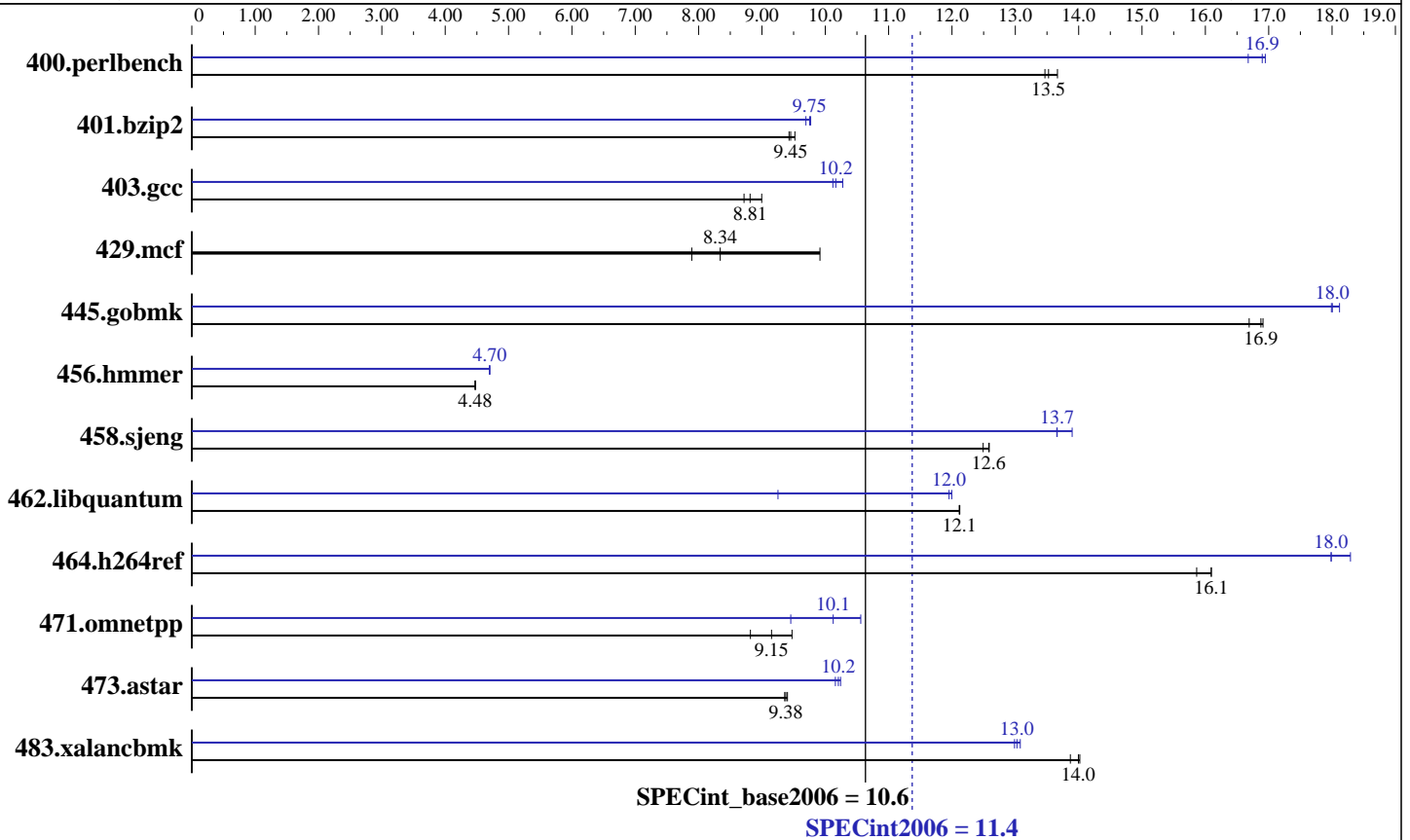
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: Apr-2007

Tested by: Dell Inc.

Software Availability: Jun-2007



Hardware

CPU Name: AMD Opteron 8220 SE
 CPU Characteristics:
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 2,4 chips
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8 x 2 GB DDR2-667 CL5 ECC)
 Disk Subsystem: 1 x 146 GB SAS 15K RPM
 Other Hardware: None

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<u>722</u>	<u>13.5</u>	715	13.7	725	13.5	<u>578</u>	<u>16.9</u>	586	16.7	577	16.9
401.bzip2	1014	9.52	<u>1021</u>	<u>9.45</u>	1024	9.43	<u>989</u>	<u>9.75</u>	995	9.69	988	9.77
403.gcc	895	9.00	<u>913</u>	<u>8.81</u>	923	8.72	795	10.1	<u>792</u>	<u>10.2</u>	783	10.3
429.mcf	1156	7.89	920	9.92	<u>1093</u>	<u>8.34</u>	1156	7.89	920	9.92	<u>1093</u>	<u>8.34</u>
445.gobmk	<u>622</u>	<u>16.9</u>	628	16.7	620	16.9	<u>583</u>	<u>18.0</u>	579	18.1	583	18.0
456.hammer	2087	4.47	2084	4.48	<u>2085</u>	<u>4.48</u>	<u>1984</u>	<u>4.70</u>	1986	4.70	1984	4.70
458.sjeng	<u>962</u>	<u>12.6</u>	969	12.5	961	12.6	886	13.7	871	13.9	<u>886</u>	<u>13.7</u>
462.libquantum	1709	12.1	1710	12.1	<u>1710</u>	<u>12.1</u>	2239	9.25	1727	12.0	<u>1733</u>	<u>12.0</u>
464.h264ref	<u>1375</u>	<u>16.1</u>	1395	15.9	1375	16.1	<u>1230</u>	<u>18.0</u>	1210	18.3	1230	18.0
471.omnetpp	709	8.82	<u>683</u>	<u>9.15</u>	660	9.47	592	10.6	661	9.46	<u>617</u>	<u>10.1</u>
473.astar	747	9.40	<u>749</u>	<u>9.38</u>	750	9.36	<u>688</u>	<u>10.2</u>	685	10.2	691	10.2
483.xalancbmk	<u>493</u>	<u>14.0</u>	498	13.9	492	14.0	531	13.0	528	13.1	<u>530</u>	<u>13.0</u>

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

Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Portability Flags

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

Base Optimization Flags

C benchmarks:
-QxW -Qipo -O3 -Qprec-div- /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

C++ benchmarks:
-QxW -Qipo -O3 -Qprec-div- -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE



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Peak Optimization Flags

C benchmarks:

```

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
               -Qprec-div- -Qansi-alias -Qprefetch /F512000000
               shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
           -Qprec-div- /F512000000 shlw32m.lib
           -link /FORCE:MULTIPLE

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
         -Qprec-div- /F512000000 -link /FORCE:MULTIPLE

429.mcf: basepeak = yes

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

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
           -Qprec-div- -Qunroll2 -Qansi-alias /F512000000
           shlw32m.lib -link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
           -Qprec-div- -Qunroll4 /F512000000 shlw32m.lib
           -link /FORCE:MULTIPLE

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxW -Qipo -O3
                -Qprec-div- -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) -QxW -Qipo -O3 -Qprec-div-
-Qansi-alias -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

```

Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca



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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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