SPEC® CINT2006 Result

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Dell Inc.

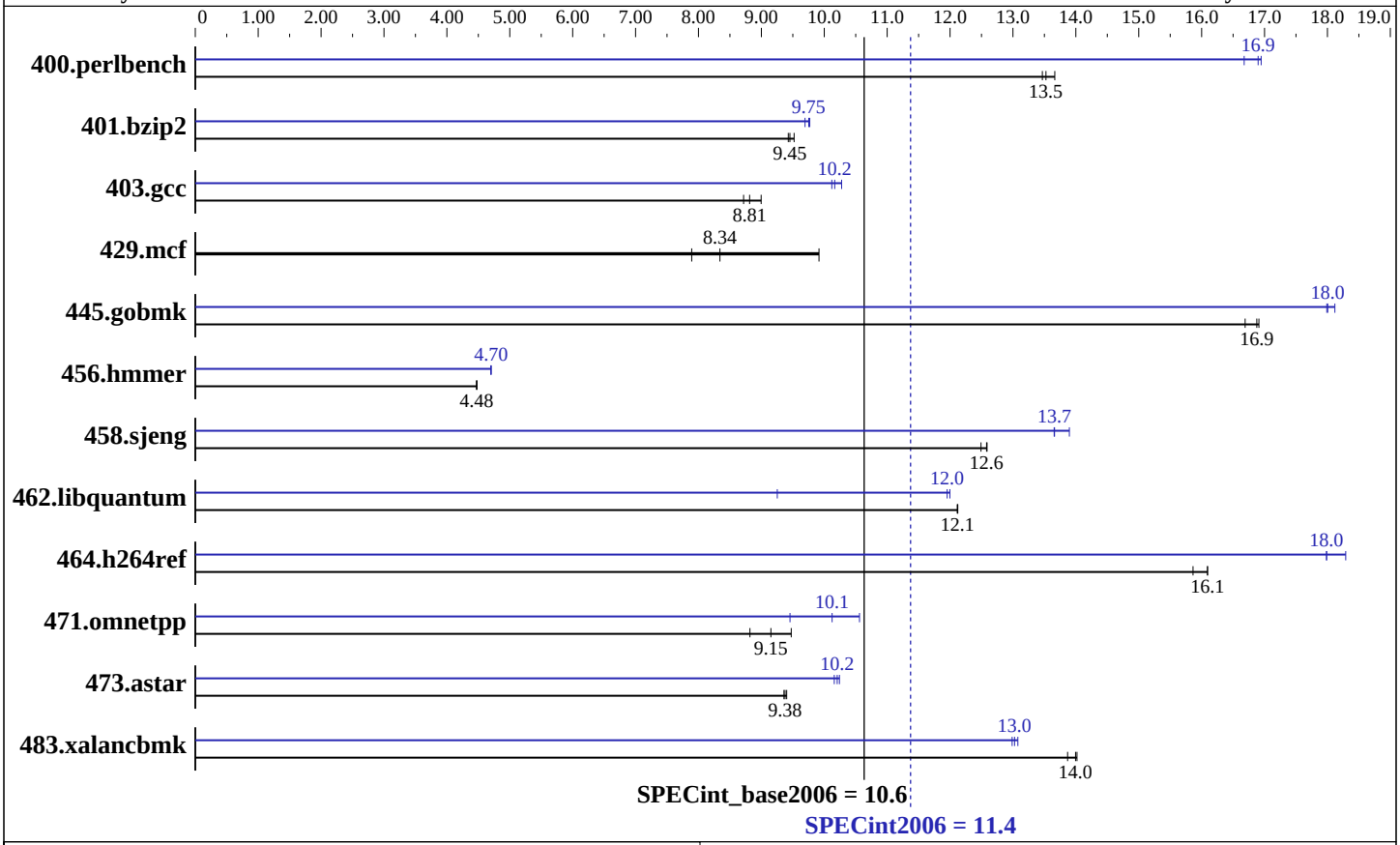
PowerEdge 6950 (AMD Opteron 8220 SE, 2.8 GHz)

SPECint®2006 = 11.4

SPECint_base2006 = 10.6

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Aug-2007
Hardware Availability: Apr-2007
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	**722**	**13.5**	715	13.7	725	13.5	**578**	**16.9**	586	16.7	577	16.9
401.bzip2	1014	9.52	**1021**	**9.45**	1024	9.43	**989**	**9.75**	995	9.69	988	9.77
403.gcc	895	9.00	**913**	**8.81**	923	8.72	795	10.1	**792**	**10.2**	783	10.3
429.mcf	1156	7.89	920	9.92	**1093**	**8.34**	1156	7.89	920	9.92	**1093**	**8.34**
445.gobmk	**622**	**16.9**	628	16.7	620	16.9	**583**	**18.0**	579	18.1	583	18.0
456.hmmer	2087	4.47	2084	4.48	**2085**	**4.48**	**1984**	**4.70**	1986	4.70	1984	4.70
458.sjeng	**962**	**12.6**	969	12.5	961	12.6	886	13.7	871	13.9	**886**	**13.7**
462.libquantum	1709	12.1	1710	12.1	**1710**	**12.1**	2239	9.25	1727	12.0	**1733**	**12.0**
464.h264ref	**1375**	**16.1**	1395	15.9	1375	16.1	**1230**	**18.0**	1210	18.3	1230	18.0
471.omnetpp	709	8.82	**683**	**9.15**	660	9.47	592	10.6	661	9.46	**617**	**10.1**
473.astar	747	9.40	**749**	**9.38**	750	9.36	**688**	**10.2**	685	10.2	691	10.2
483.xalancbmk	**493**	**14.0**	498	13.9	492	14.0	531	13.0	528	13.1	**530**	**13.0**

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

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`

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
```

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) `-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`

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Peak Optimization Flags (Continued)

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`

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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