SPEC® CINT2006 Result

Dell Inc.

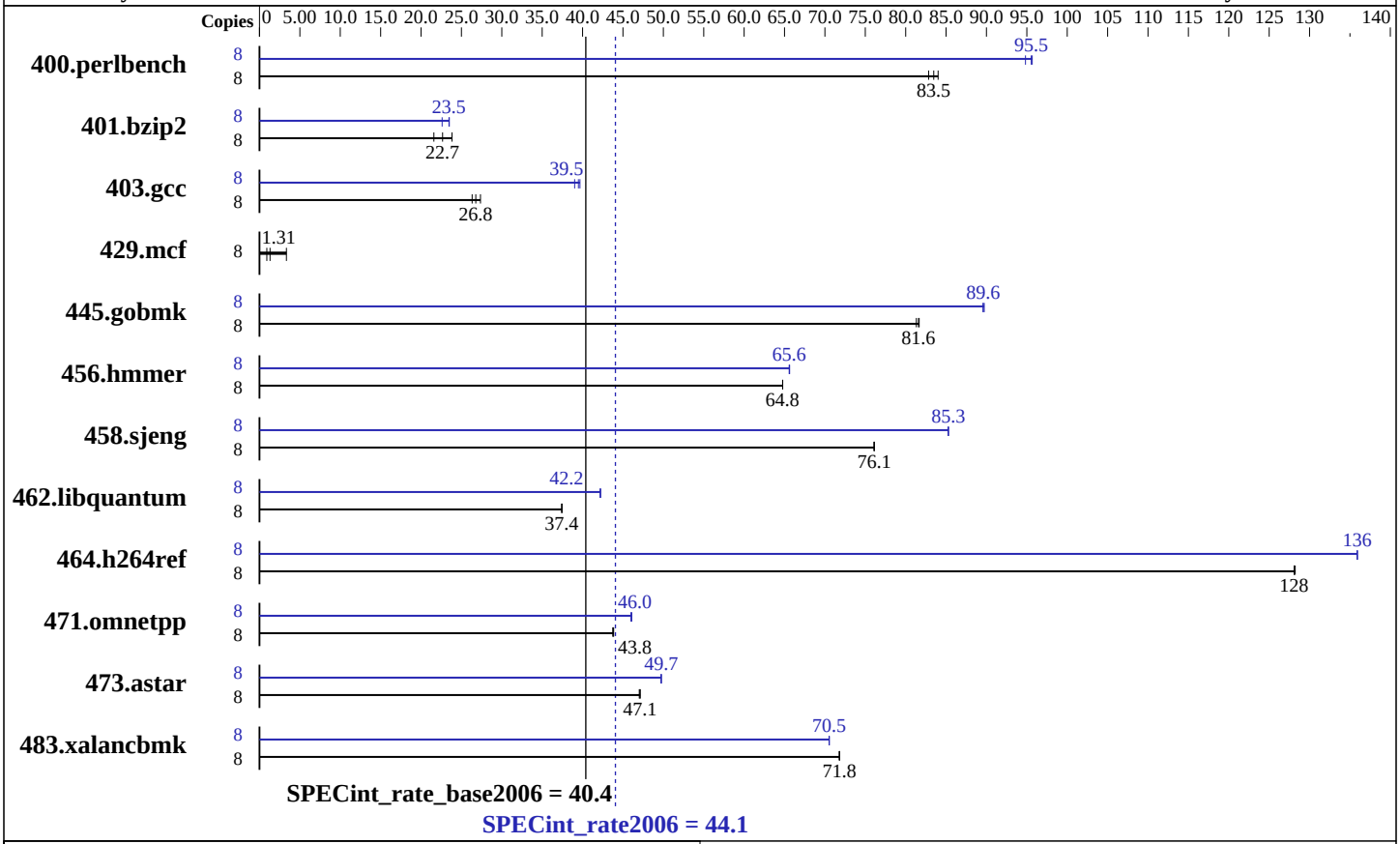
PowerEdge 1950 (Intel Xeon E5310, 1.60 GHz)

SPECint®_rate2006 = 44.1

SPECint_rate_base2006 = 40.4

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

Test date: Aug-2007
Hardware Availability: Dec-2006
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:	4 GB (4 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
Disk Subsystem:	146 GB SAS, 15000RPM
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	**936**	**83.5**	930	84.0	944	82.8	8	824	94.8	**818**	**95.5**	817	95.7
401.bzip2	8	3576	21.6	3239	23.8	**3406**	**22.7**	8	3285	23.5	3414	22.6	**3291**	**23.5**
403.gcc	8	2354	27.4	**2405**	**26.8**	2446	26.3	8	**1631**	**39.5**	1651	39.0	1623	39.7
429.mcf	8	**55856**	**1.31**	80215	0.910	21879	3.33	8	**55856**	**1.31**	80215	0.910	21879	3.33
445.gobmk	8	1032	81.3	**1029**	**81.6**	1028	81.7	8	**937**	**89.6**	935	89.7	937	89.6
456.hmmer	8	1153	64.8	**1152**	**64.8**	1152	64.8	8	**1138**	**65.6**	1137	65.6	1138	65.6
458.sjeng	8	1272	76.1	**1272**	**76.1**	1272	76.1	8	1135	85.3	**1135**	**85.3**	1135	85.3
462.libquantum	8	4429	37.4	**4428**	**37.4**	4427	37.4	8	**3928**	**42.2**	3930	42.2	3926	42.2
464.h264ref	8	1382	128	**1382**	**128**	1381	128	8	1303	136	1302	136	**1303**	**136**
471.omnetpp	8	1143	43.8	1140	43.8	**1142**	**43.8**	8	1085	46.1	1087	46.0	**1087**	**46.0**
473.astar	8	**1192**	**47.1**	1195	47.0	1192	47.1	8	**1129**	**49.7**	1129	49.7	1129	49.7
483.xalancbmk	8	769	71.8	**769**	**71.8**	769	71.8	8	783	70.5	782	70.6	**783**	**70.5**

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

General Notes

```
The Windows start command was 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`

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-ia32.20090714.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Dell-Intel-ic10-ia32.20090714.xml

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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