SPEC® CINT2006 Result

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Dell Inc.

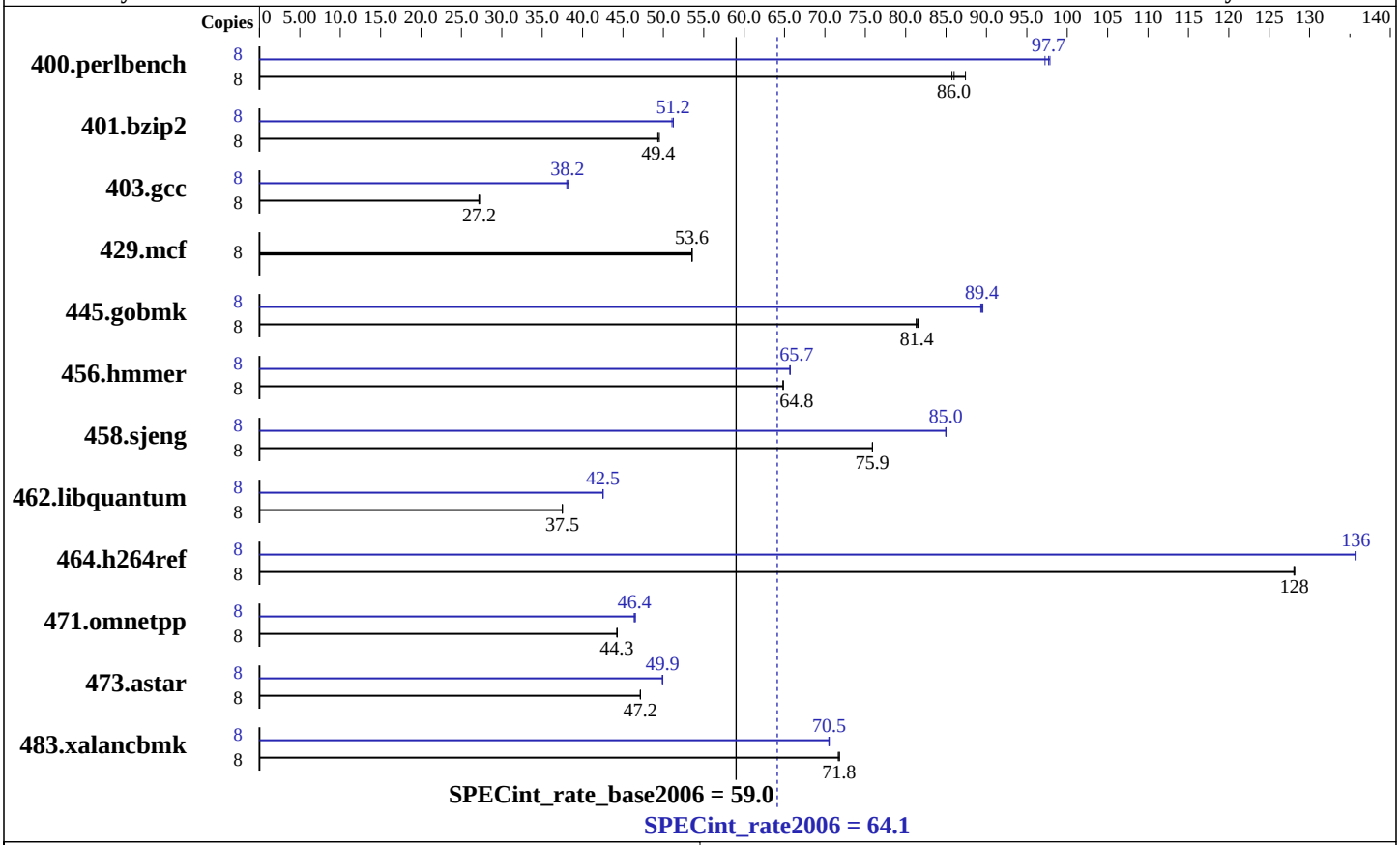
PowerEdge 1955 (Intel Xeon E5310, 1.60 GHz)

SPECint®_rate2006 = 64.1

SPECint_rate_base2006 = 59.0

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:	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	**909**	**86.0**	8	799	97.9	**800**	**97.7**	804	97.3
401.bzip2	8	1566	49.3	**1564**	**49.4**	1559	49.5	8	**1507**	**51.2**	1512	51.1	1507	51.2
403.gcc	8	2364	27.2	2371	27.2	**2367**	**27.2**	8	1683	38.3	**1688**	**38.2**	1693	38.0
429.mcf	8	**1362**	**53.6**	1363	53.5	1362	53.6	8	**1362**	**53.6**	1363	53.5	1362	53.6
445.gobmk	8	**1031**	**81.4**	1032	81.3	1029	81.5	8	937	89.6	**938**	**89.4**	940	89.3
456.hmmer	8	**1151**	**64.8**	1151	64.8	1151	64.8	8	1136	65.7	1136	65.7	**1136**	**65.7**
458.sjeng	8	**1275**	**75.9**	1276	75.9	1275	75.9	8	1139	85.0	1139	85.0	**1139**	**85.0**
462.libquantum	8	**4421**	**37.5**	4423	37.5	4419	37.5	8	3896	42.5	3900	42.5	**3897**	**42.5**
464.h264ref	8	1381	128	**1382**	**128**	1382	128	8	1304	136	1305	136	**1304**	**136**
471.omnetpp	8	1130	44.3	**1130**	**44.3**	1129	44.3	8	1077	46.4	**1077**	**46.4**	1074	46.5
473.astar	8	**1191**	**47.2**	1191	47.2	1191	47.1	8	**1125**	**49.9**	1126	49.9	1125	49.9
483.xalancbmk	8	769	71.8	**769**	**71.8**	770	71.7	8	**783**	**70.5**	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`

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`

Continued on next page

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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