SPEC® CINT2006 Result

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Dell Inc.

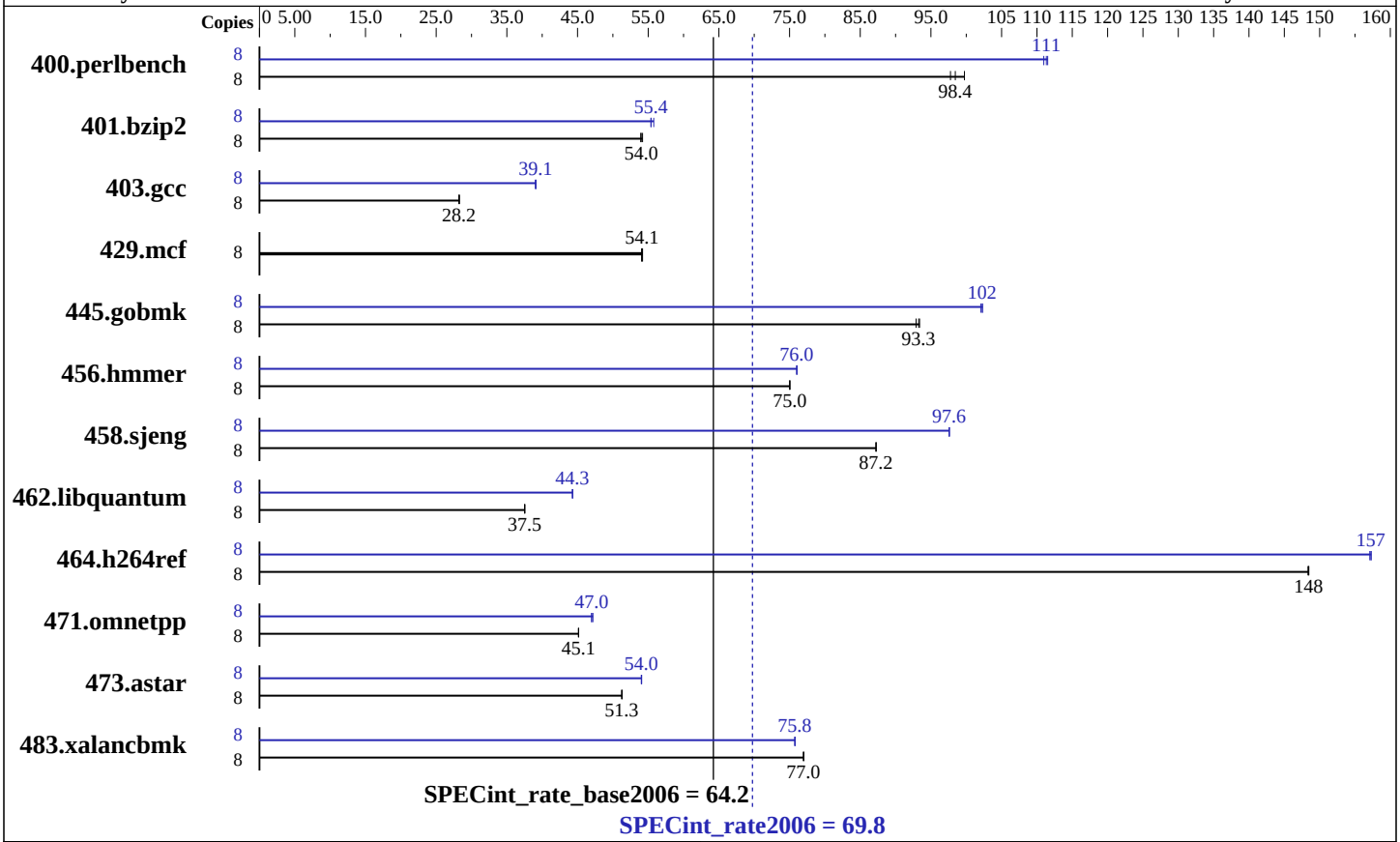
PowerEdge 2900 (Intel Xeon E5320, 1.86 GHz)

SPECint®_rate2006 = 69.8

SPECint_rate_base2006 = 64.2

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 E5320
CPU Characteristics:	1066 MHz Bus Speed
CPU MHz:	1866
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 146 GB SAS, 15000RPM
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	784	99.7	**794**	**98.4**	799	97.8	8	701	112	**702**	**111**	704	111
401.bzip2	8	1431	53.9	1424	54.2	**1429**	**54.0**	8	**1393**	**55.4**	1394	55.4	1384	55.8
403.gcc	8	**2281**	**28.2**	2281	28.2	2276	28.3	8	1650	39.0	1647	39.1	**1647**	**39.1**
429.mcf	8	1346	54.2	**1348**	**54.1**	1349	54.1	8	1346	54.2	**1348**	**54.1**	1349	54.1
445.gobmk	8	**900**	**93.3**	903	92.9	899	93.4	8	**821**	**102**	820	102	822	102
456.hmmer	8	**995**	**75.0**	995	75.0	995	75.0	8	**982**	**76.0**	982	76.0	982	76.0
458.sjeng	8	1110	87.2	1110	87.2	**1110**	**87.2**	8	992	97.6	992	97.6	**992**	**97.6**
462.libquantum	8	4417	37.5	**4417**	**37.5**	4417	37.5	8	3742	44.3	**3742**	**44.3**	3743	44.3
464.h264ref	8	1193	148	1193	148	**1193**	**148**	8	1126	157	1127	157	**1126**	**157**
471.omnetpp	8	1108	45.1	**1107**	**45.1**	1107	45.2	8	1064	47.0	1060	47.2	**1064**	**47.0**
473.astar	8	**1096**	**51.3**	1096	51.3	1095	51.3	8	1039	54.0	**1039**	**54.0**	1039	54.1
483.xalancbmk	8	717	77.0	**717**	**77.0**	717	77.0	8	728	75.8	729	75.7	**729**	**75.8**

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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