SPEC® CINT2006 Result

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Dell Inc.

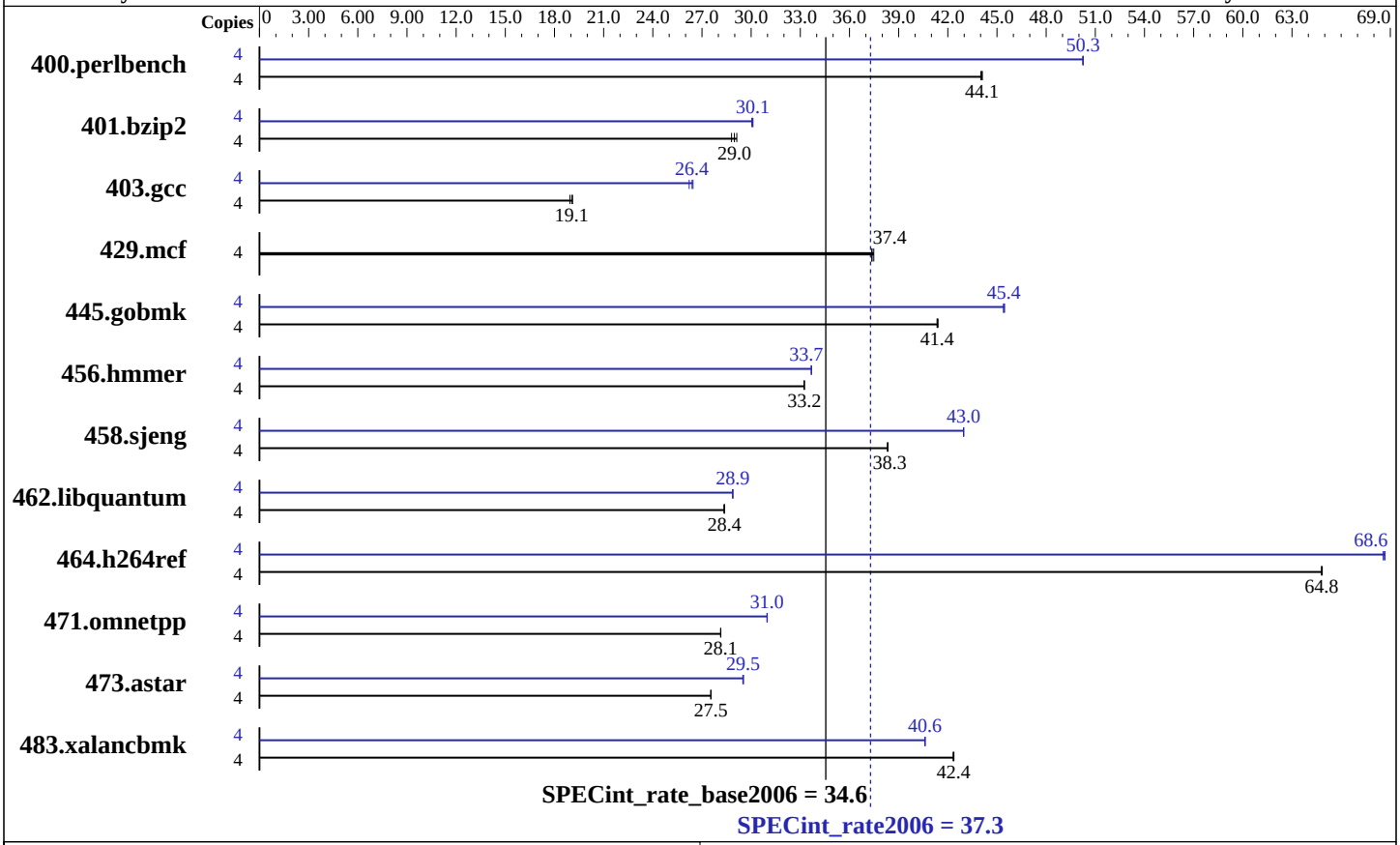
PowerEdge 2900 (Intel Xeon E5310, 1.60 GHz)

SPECint®_rate2006 = 37.3

SPECint_rate_base2006 = 34.6

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:	4 cores, 1 chip, 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:	4 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	4	886	44.1	888	44.0	**886**	**44.1**	4	778	50.2	778	50.3	**778**	**50.3**
401.bzip2	4	**1332**	**29.0**	1325	29.1	1340	28.8	4	1285	30.0	1282	30.1	**1282**	**30.1**
403.gcc	4	1700	18.9	1686	19.1	**1689**	**19.1**	4	1228	26.2	1217	26.5	**1220**	**26.4**
429.mcf	4	973	37.5	**976**	**37.4**	976	37.4	4	973	37.5	**976**	**37.4**	976	37.4
445.gobmk	4	1013	41.4	1015	41.3	**1015**	**41.4**	4	923	45.5	**924**	**45.4**	924	45.4
456.hmmer	4	**1123**	**33.2**	1123	33.2	1123	33.2	4	1108	33.7	1108	33.7	**1108**	**33.7**
458.sjeng	4	1262	38.3	**1263**	**38.3**	1263	38.3	4	1126	43.0	**1127**	**43.0**	1127	43.0
462.libquantum	4	**2920**	**28.4**	2920	28.4	2925	28.3	4	**2870**	**28.9**	2869	28.9	2870	28.9
464.h264ref	4	1365	64.8	1366	64.8	**1366**	**64.8**	4	1291	68.6	**1290**	**68.6**	1289	68.7
471.omnetpp	4	**888**	**28.1**	888	28.2	889	28.1	4	807	31.0	807	31.0	**807**	**31.0**
473.astar	4	**1020**	**27.5**	1020	27.5	1019	27.6	4	**951**	**29.5**	952	29.5	951	29.5
483.xalancbmk	4	652	42.3	651	42.4	**652**	**42.4**	4	679	40.6	680	40.6	**680**	**40.6**

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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