SPEC® CINT2006 Result

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Dell Inc.

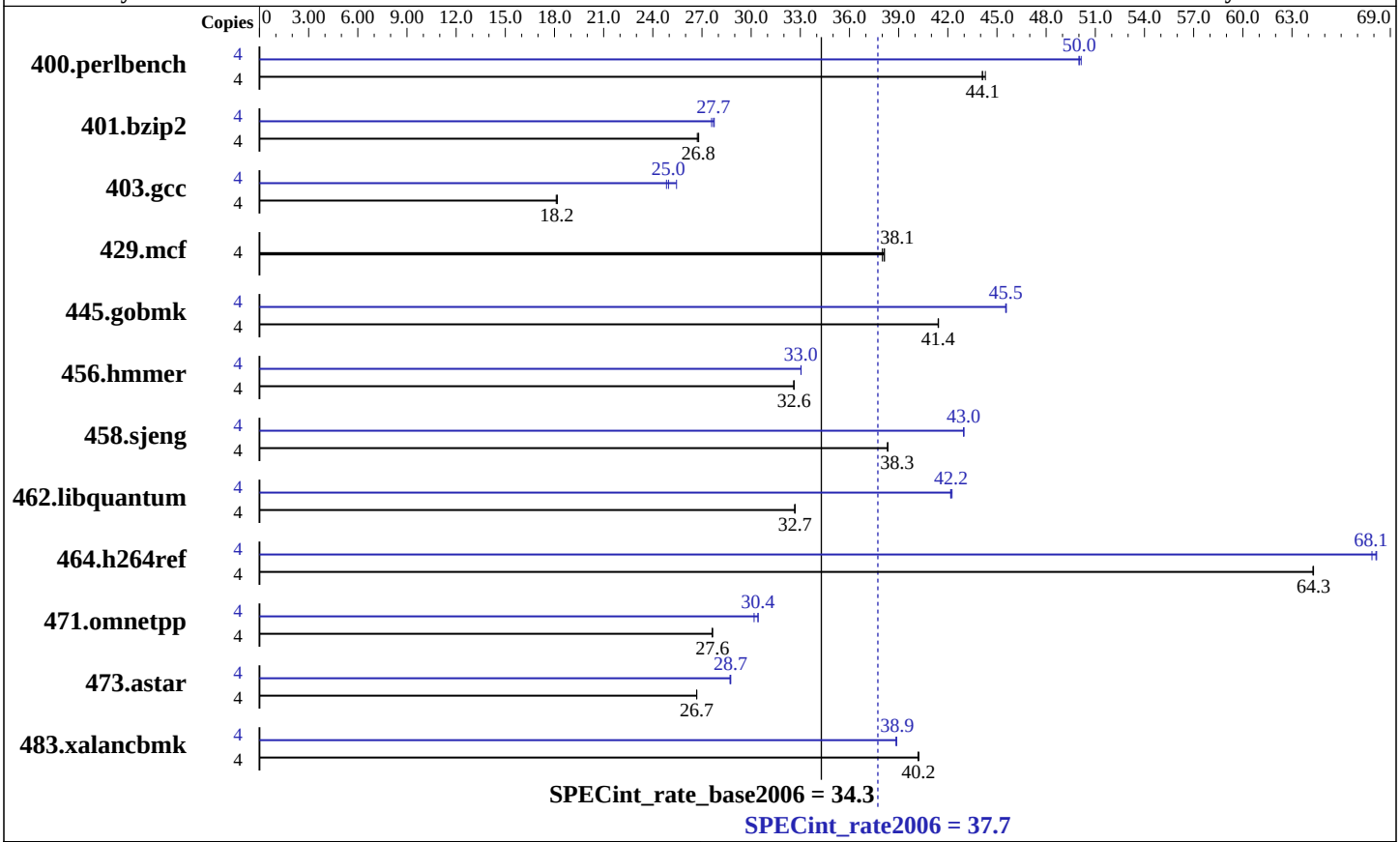
PowerEdge 1955 (Intel Xeon 5110, 1.60 GHz)

SPECint®_rate2006 = 37.7

SPECint_rate_base2006 = 34.3

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

Test date: Jul-2007
Hardware Availability: Jul-2006
Software Availability: Jun-2007



Hardware

CPU Name:	Intel Xeon 5110
CPU Characteristics:	1066 MHz Bus Speed
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (8 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
Disk Subsystem:	1 x 146 GB SAS, 15KRPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise
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:	SmartHeap Library Version 8.0 from http://www.microquill.com/

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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	**886**	**44.1**	882	44.3	4	**781**	**50.0**	781	50.0	779	50.1
401.bzip2	4	1440	26.8	1445	26.7	**1442**	**26.8**	4	1391	27.7	**1393**	**27.7**	1399	27.6
403.gcc	4	1779	18.1	**1774**	**18.2**	1772	18.2	4	**1290**	**25.0**	1297	24.8	1265	25.4
429.mcf	4	956	38.1	**957**	**38.1**	960	38.0	4	956	38.1	**957**	**38.1**	960	38.0
445.gobmk	4	**1013**	**41.4**	1013	41.4	1013	41.4	4	921	45.6	921	45.5	**921**	**45.5**
456.hmmer	4	1144	32.6	1145	32.6	**1144**	**32.6**	4	1129	33.0	1130	33.0	**1130**	**33.0**
458.sjeng	4	**1263**	**38.3**	1262	38.3	1263	38.3	4	**1126**	**43.0**	1126	43.0	1127	43.0
462.libquantum	4	2538	32.6	**2536**	**32.7**	2536	32.7	4	**1964**	**42.2**	1961	42.3	1965	42.2
464.h264ref	4	1376	64.3	1377	64.3	**1376**	**64.3**	4	1304	67.9	1299	68.2	**1299**	**68.1**
471.omnetpp	4	**905**	**27.6**	905	27.6	905	27.6	4	822	30.4	828	30.2	**822**	**30.4**
473.astar	4	1053	26.7	**1053**	**26.7**	1053	26.7	4	977	28.7	978	28.7	**977**	**28.7**
483.xalancbmk	4	686	40.2	687	40.2	**687**	**40.2**	4	710	38.9	**710**	**38.9**	711	38.8

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`

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`

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Peak Optimization Flags (Continued)

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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