SPEC® CINT2006 Result

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Dell Inc.

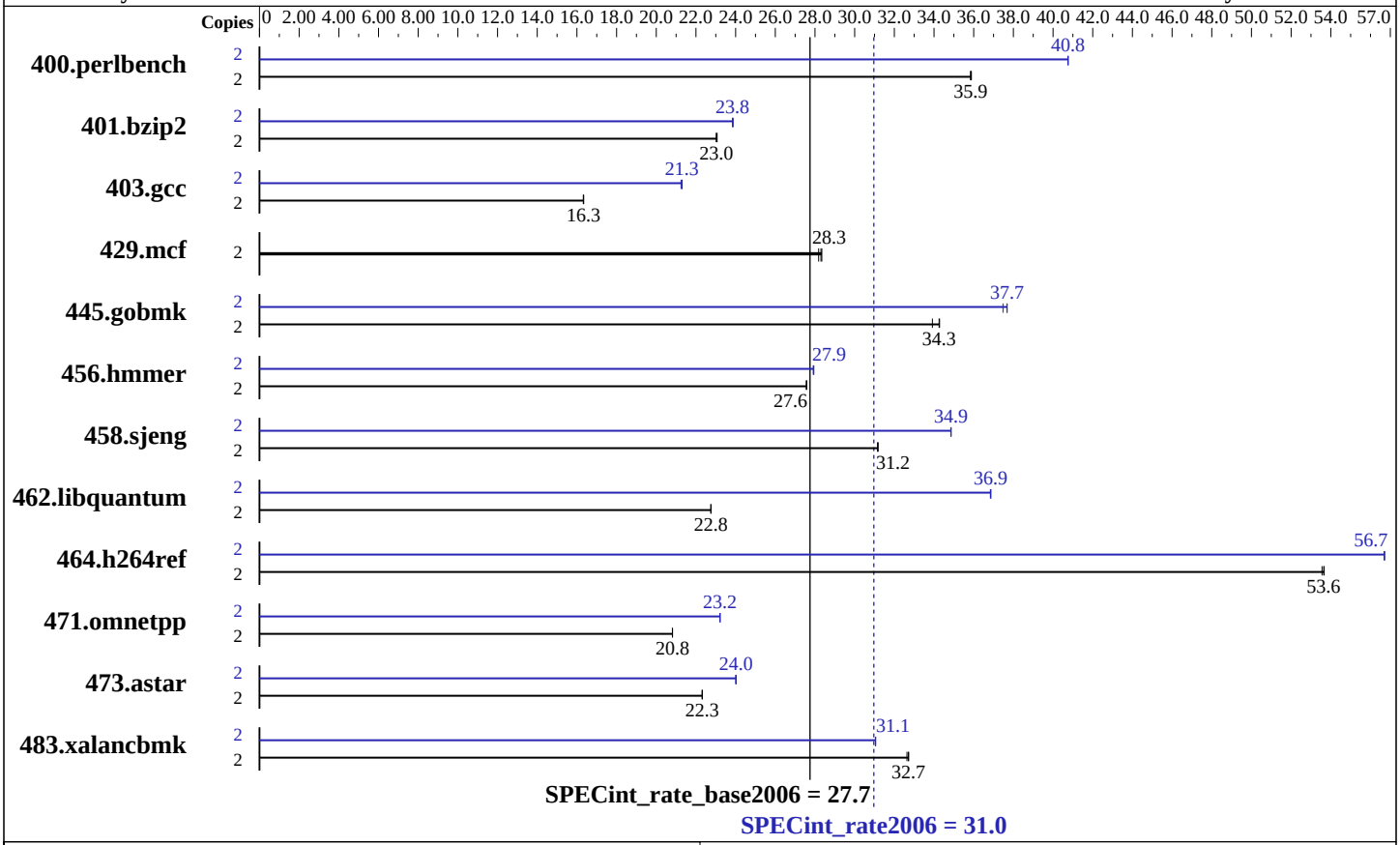
PowerEdge 2900 (Intel Xeon 5150, 2.66 GHz)

SPECint®_rate2006 = 31.0

SPECint_rate_base2006 = 27.7

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

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



Hardware

CPU Name:	Intel Xeon 5150
CPU Characteristics:	Intel Xeon 5150
CPU MHz:	2666
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 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, 15K RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise x64
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	2	**545**	**35.9**	545	35.8	545	35.9	2	479	40.8	**480**	**40.8**	480	40.7
401.bzip2	2	837	23.1	838	23.0	**838**	**23.0**	2	809	23.8	**809**	**23.8**	808	23.9
403.gcc	2	985	16.3	**986**	**16.3**	986	16.3	2	**756**	**21.3**	756	21.3	758	21.2
429.mcf	2	**645**	**28.3**	647	28.2	644	28.3	2	**645**	**28.3**	647	28.2	644	28.3
445.gobmk	2	619	33.9	**612**	**34.3**	612	34.3	2	**557**	**37.7**	560	37.5	557	37.7
456.hmmer	2	677	27.6	**677**	**27.6**	677	27.6	2	**668**	**27.9**	668	27.9	668	27.9
458.sjeng	2	777	31.2	**776**	**31.2**	776	31.2	2	**694**	**34.9**	694	34.9	694	34.8
462.libquantum	2	1821	22.8	1821	22.8	**1821**	**22.8**	2	1125	36.8	**1124**	**36.9**	1124	36.9
464.h264ref	2	**825**	**53.6**	825	53.7	826	53.6	2	781	56.7	780	56.7	**781**	**56.7**
471.omnetpp	2	600	20.8	601	20.8	**601**	**20.8**	2	538	23.2	**539**	**23.2**	539	23.2
473.astar	2	**629**	**22.3**	629	22.3	629	22.3	2	585	24.0	**584**	**24.0**	584	24.0
483.xalancbmk	2	**422**	**32.7**	423	32.6	422	32.7	2	444	31.1	445	31.0	**444**	**31.1**

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`

Continued on next page

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-ia32.20090714.00.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Dell-Intel-ic10-ia32.20090714.00.xml`

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