SPEC® CINT2006 Result

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Dell Inc.

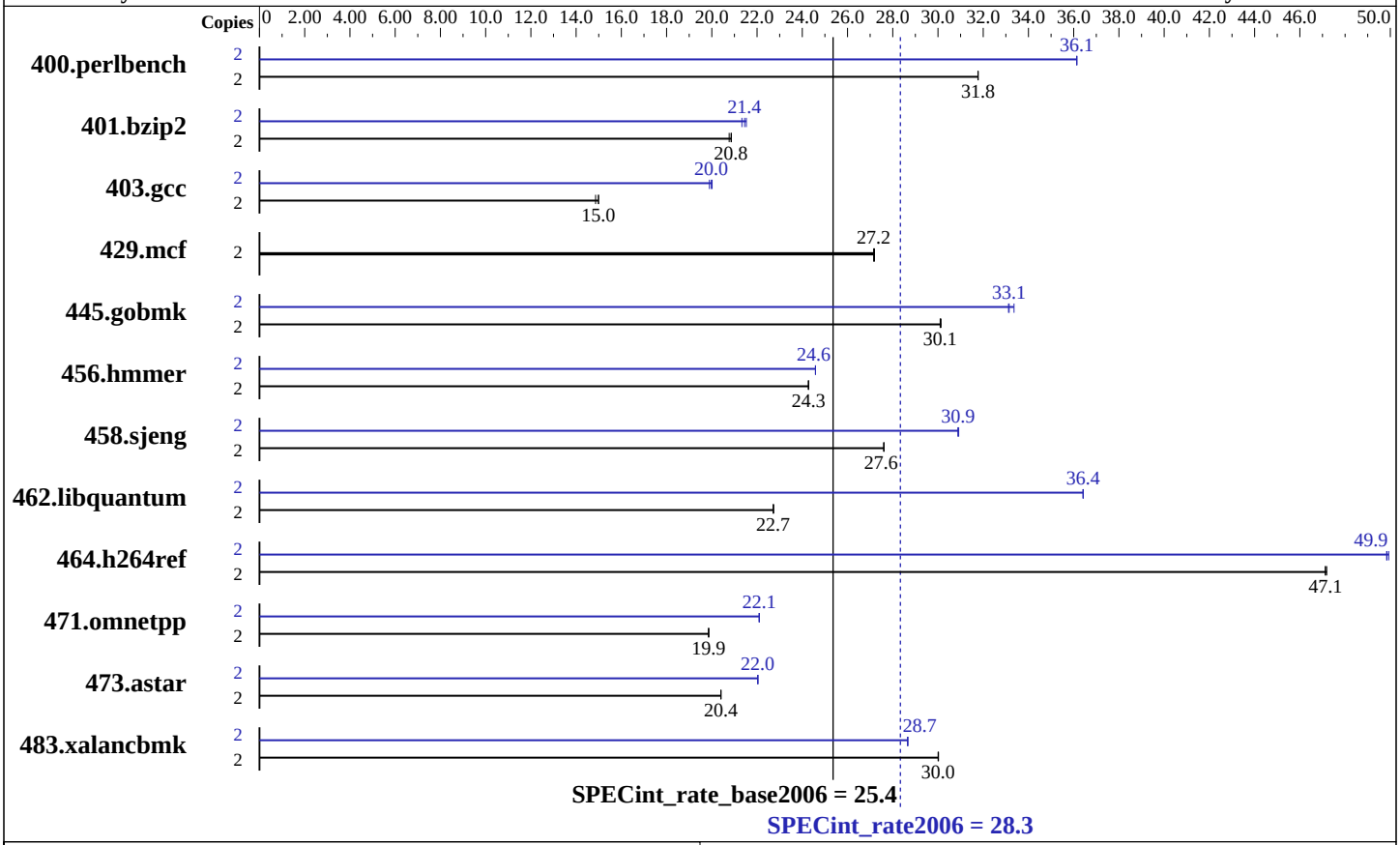
PowerEdge 2900 (Intel Xeon 5140, 2.33 GHz)

SPECint®_rate2006 = 28.3

SPECint_rate_base2006 = 25.4

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 5140
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	2333
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, 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	2	615	31.8	**615**	**31.8**	615	31.8	2	**541**	**36.1**	541	36.1	541	36.1
401.bzip2	2	929	20.8	**926**	**20.8**	925	20.9	2	**900**	**21.4**	905	21.3	897	21.5
403.gcc	2	1074	15.0	**1074**	**15.0**	1083	14.9	2	804	20.0	809	19.9	**806**	**20.0**
429.mcf	2	671	27.2	672	27.2	**671**	**27.2**	2	671	27.2	672	27.2	**671**	**27.2**
445.gobmk	2	696	30.1	**697**	**30.1**	697	30.1	2	629	33.4	**633**	**33.1**	633	33.1
456.hmmer	2	769	24.3	**769**	**24.3**	769	24.3	2	759	24.6	759	24.6	**759**	**24.6**
458.sjeng	2	**877**	**27.6**	876	27.6	877	27.6	2	**783**	**30.9**	783	30.9	783	30.9
462.libquantum	2	1823	22.7	**1824**	**22.7**	1824	22.7	2	**1138**	**36.4**	1138	36.4	1138	36.4
464.h264ref	2	939	47.1	**939**	**47.1**	938	47.2	2	886	49.9	888	49.8	**888**	**49.9**
471.omnetpp	2	**629**	**19.9**	629	19.9	630	19.9	2	**566**	**22.1**	566	22.1	565	22.1
473.astar	2	**688**	**20.4**	688	20.4	688	20.4	2	637	22.0	**637**	**22.0**	637	22.0
483.xalancbmk	2	460	30.0	460	30.0	**460**	**30.0**	2	481	28.7	482	28.7	**482**	**28.7**

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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