



SPEC[®] CINT2006 Result

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Dell Inc.

SPECint[®]_rate2006 = 28.3

PowerEdge 2900 (Intel Xeon 5140, 2.33 GHz)

SPECint_rate_base2006 = 25.4

CPU2006 license: 55

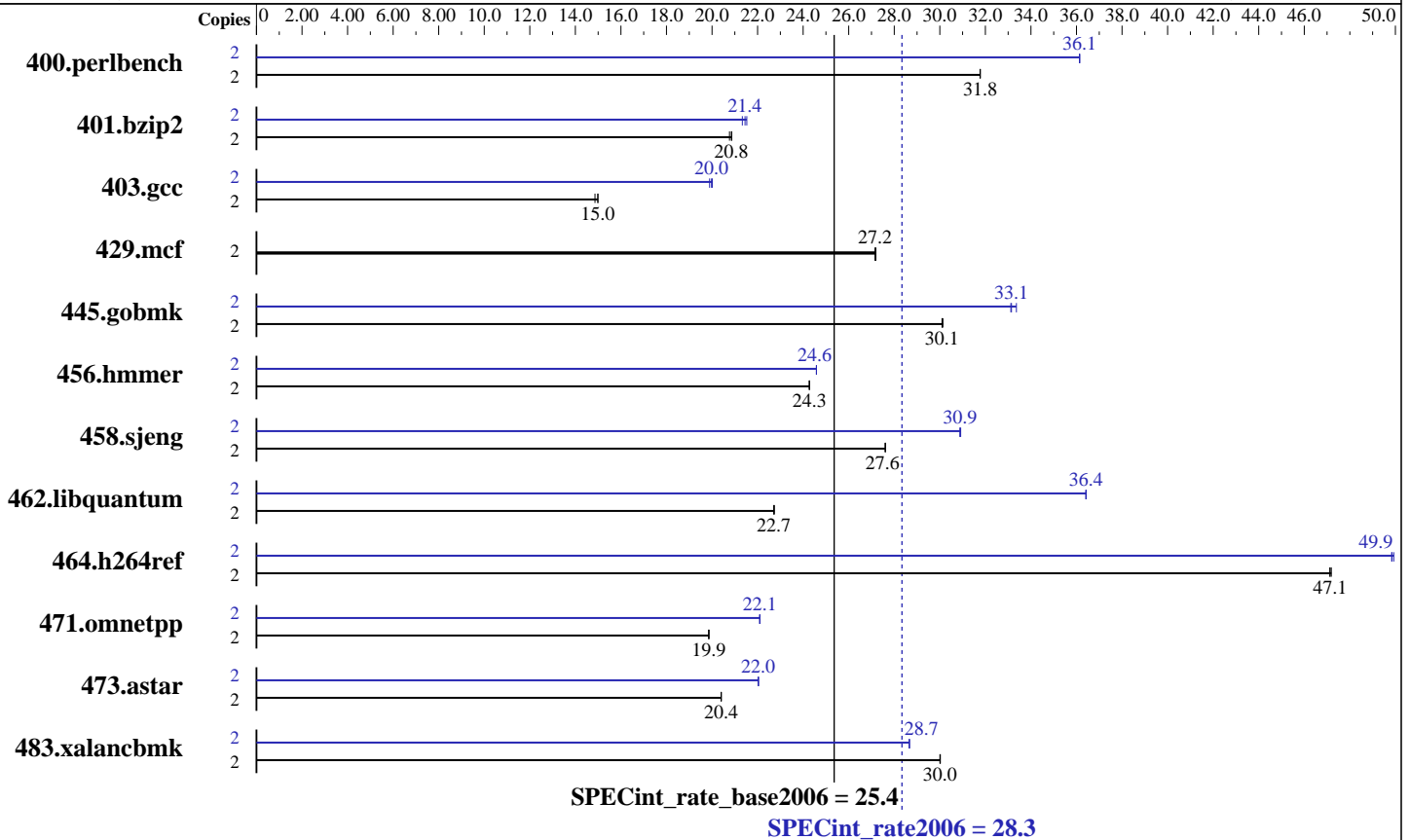
Test date: Jul-2007

Test sponsor: Dell Inc.

Hardware Availability: Jul-2006

Tested by: Dell Inc.

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

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



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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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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:31:15 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 21 August 2007.