



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 37.7

PowerEdge 1955 (Intel Xeon 5110, 1.60 GHz)

SPECint_rate_base2006 = 34.3

CPU2006 license: 55

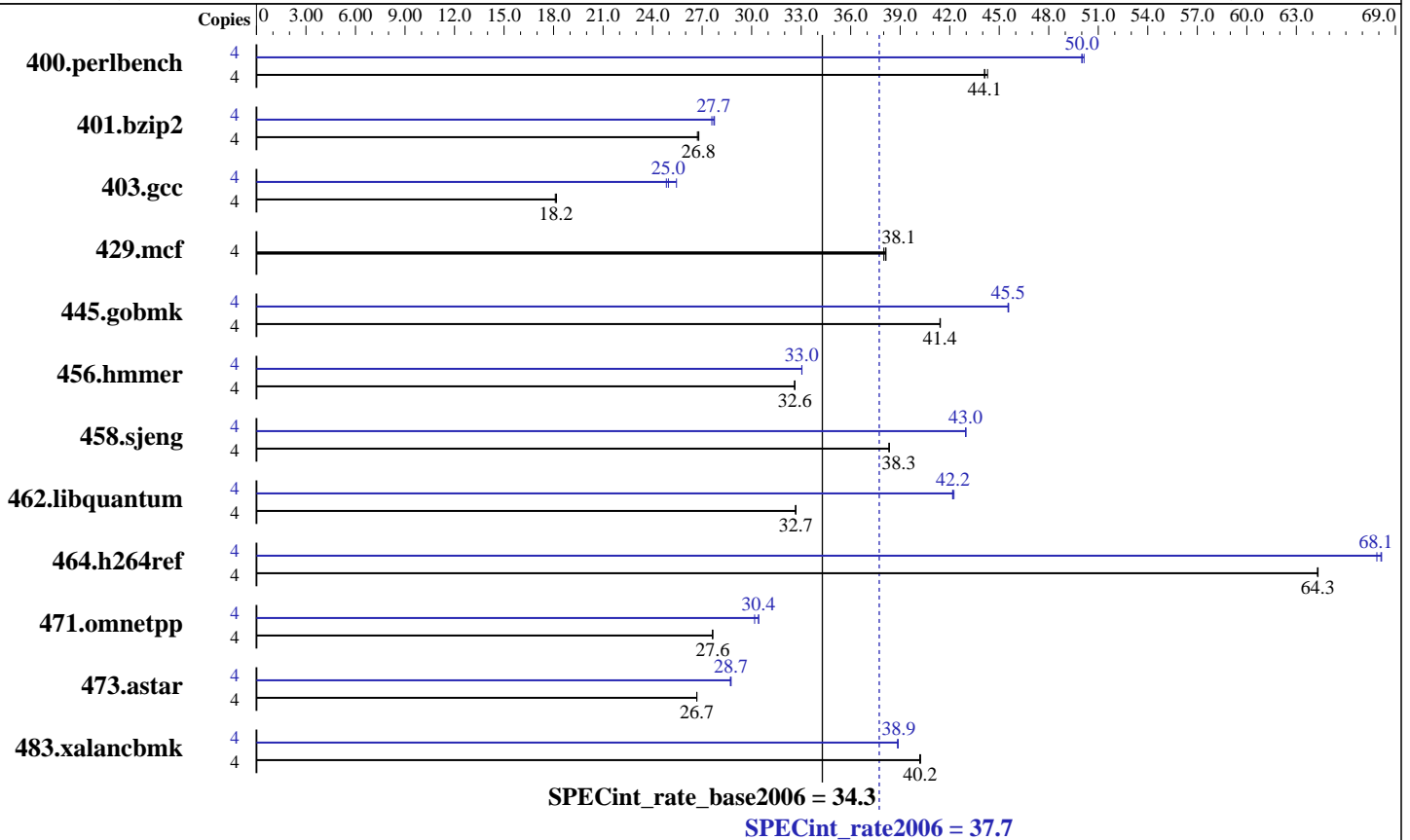
Test date: Jul-2007

Test sponsor: Dell Inc.

Hardware Availability: Jul-2006

Tested by: Dell Inc.

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 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.hammer	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.aster	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



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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.

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