SPEC® CINT2006 Result

Dell Inc.

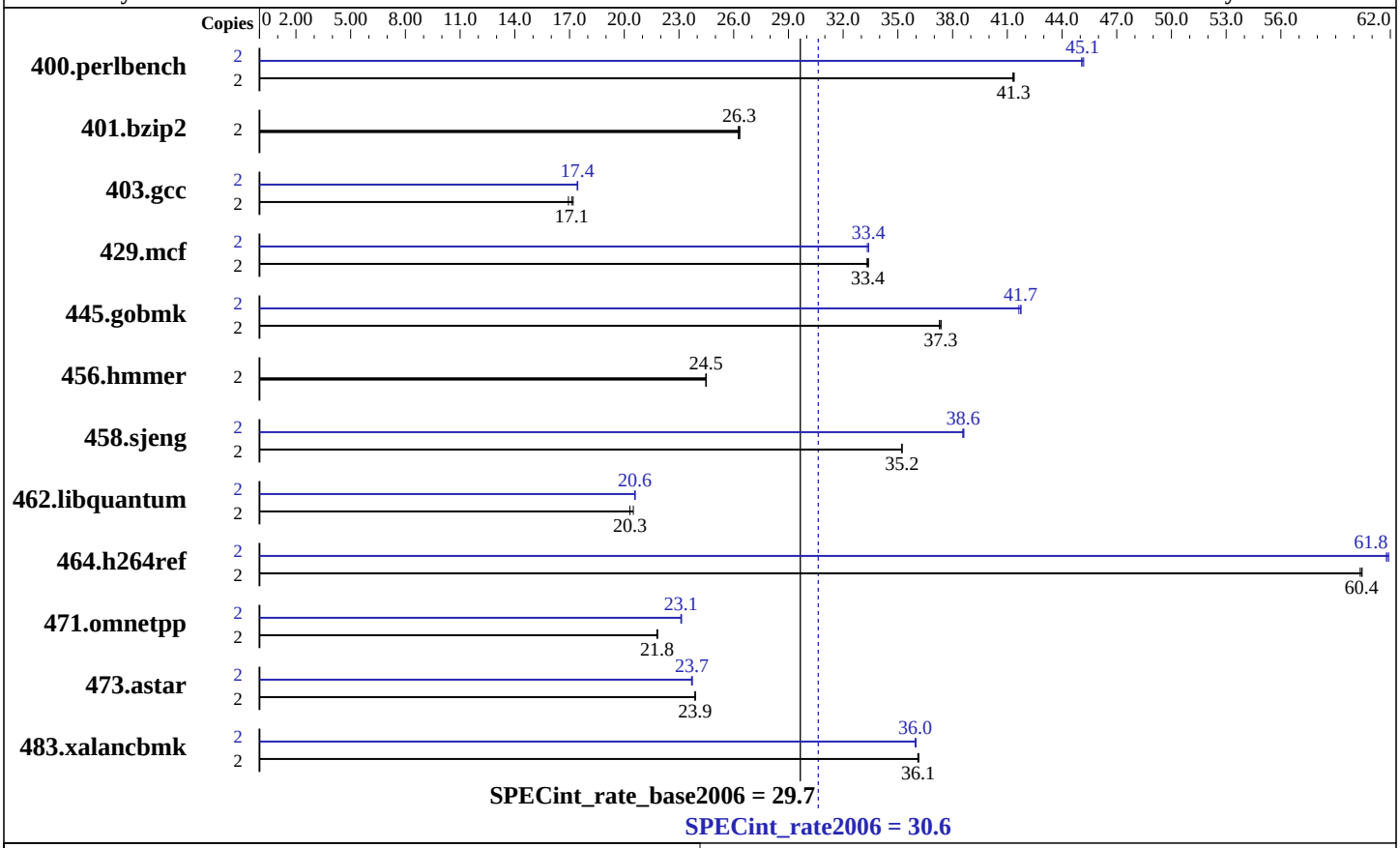
Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECint®_rate2006 = 30.6

SPECint_rate_base2006 = 29.7

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

Test date: Dec-2006
Hardware Availability: Jul-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Core 2 Extreme X6800
CPU Characteristics:	1066 MHz System Bus
CPU MHz:	2933
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
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:	4 GB (4x1GB 667 MHz ECC CL5 DDR2 SDRAM)
Disk Subsystem:	1 x 80 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional SP2
Compiler:	Intel C++ Compiler 9.1 for IA32 (20061103Z) Microsoft Visual Studio 2005 MicroQuill SmartHeap Library 8.0
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	None

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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	473	41.3	472	41.4	**473**	**41.3**	2	432	45.2	**433**	**45.1**	434	45.1
401.bzip2	2	733	26.3	**734**	**26.3**	735	26.3	2	733	26.3	**734**	**26.3**	735	26.3
403.gcc	2	**941**	**17.1**	936	17.2	951	16.9	2	923	17.5	924	17.4	**924**	**17.4**
429.mcf	2	**547**	**33.4**	548	33.3	546	33.4	2	**546**	**33.4**	547	33.3	546	33.4
445.gobmk	2	**562**	**37.3**	563	37.3	561	37.4	2	504	41.6	**503**	**41.7**	502	41.8
456.hmmer	2	762	24.5	762	24.5	**762**	**24.5**	2	762	24.5	762	24.5	**762**	**24.5**
458.sjeng	2	**687**	**35.2**	687	35.2	687	35.2	2	**627**	**38.6**	627	38.6	628	38.6
462.libquantum	2	**2040**	**20.3**	2022	20.5	2040	20.3	2	**2013**	**20.6**	2015	20.6	2011	20.6
464.h264ref	2	733	60.3	732	60.5	**732**	**60.4**	2	716	61.8	715	61.9	**716**	**61.8**
471.omnetpp	2	574	21.8	573	21.8	**573**	**21.8**	2	540	23.1	**541**	**23.1**	541	23.1
473.astar	2	588	23.9	**588**	**23.9**	587	23.9	2	593	23.7	592	23.7	**592**	**23.7**
483.xalancbmk	2	**382**	**36.1**	382	36.1	382	36.1	2	**384**	**36.0**	384	35.9	383	36.0

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
32-bit binaries were built on Windows XP Professional x64 Edition
```

Base Compiler Invocation

C benchmarks:

```
icl -Qc99
```

C++ benchmarks:

```
icl
```

Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

Base Optimization Flags

C benchmarks:

```
-fast /F512000000 shlW32M.lib            -link /FORCE:MULTIPLE
```

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Base Optimization Flags (Continued)

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 -Qc99

C++ benchmarks:
icl

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:

400.perlbench: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
/F512000000 shlW32M.lib -link /FORCE:MULTIPLE

401.bzip2: basepeak = yes

403.gcc: Same as 400.perlbench

429.mcf: ONESTEP -fast /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlW32M.lib -link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

456.hmmer: basepeak = yes

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features /F512000000 shlW32M.lib -link /FORCE:MULTIPLE

473.astar: Same as 471.omnetpp

483.xalancbmk: ONESTEP -fast -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.cpu2006.ic91.flags.20090715.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.xml

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
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