SPEC® CINT2006 Result

Dell Inc.

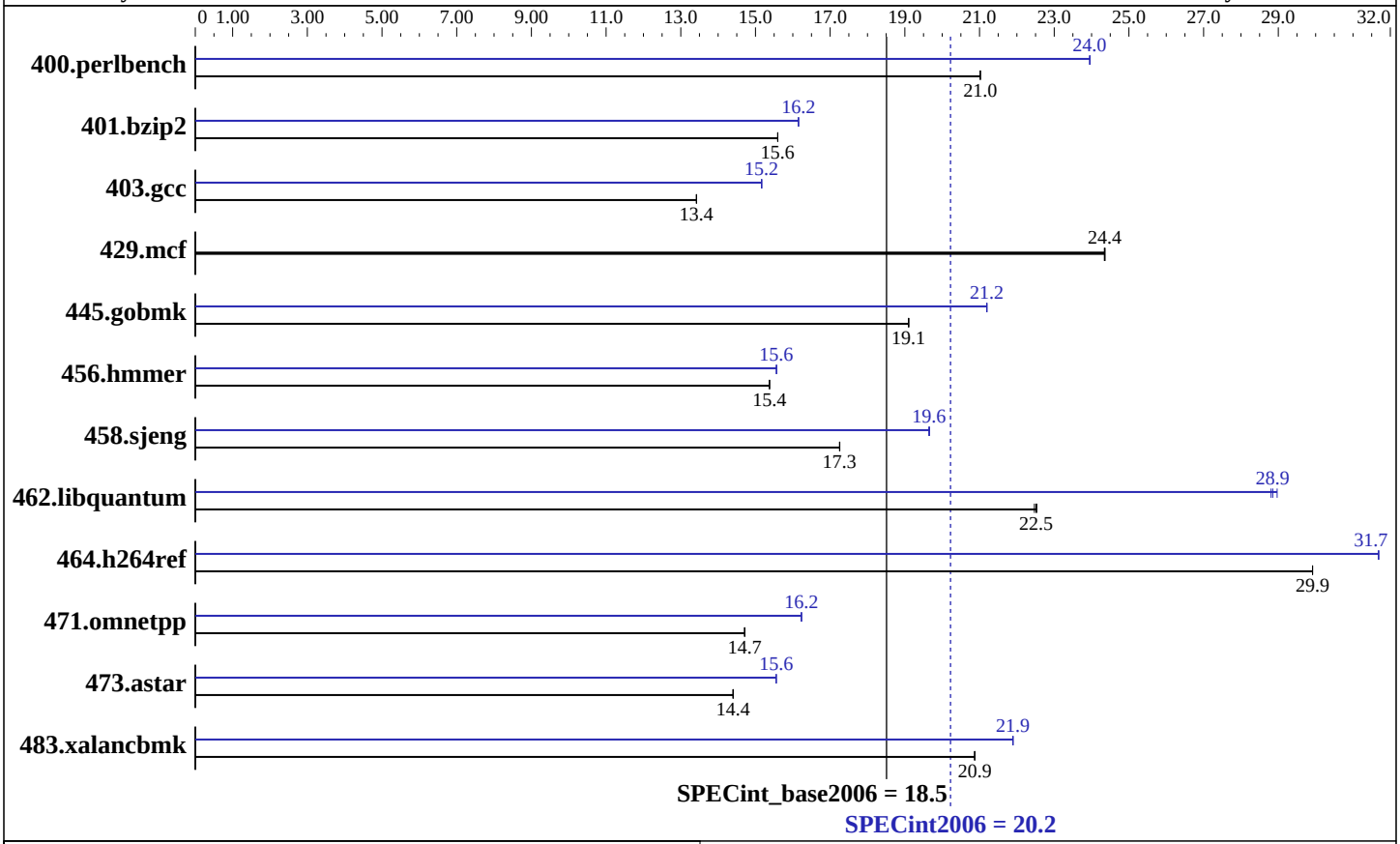
Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECint®2006 = 20.2

SPECint_base2006 = 18.5

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

Test date: Aug-2007
Hardware Availability: Sep-2007
Software Availability: Jun-2007



Hardware

CPU Name:	Intel Core 2 Extreme X6800
CPU Characteristics:	1066 MHz Bus Speed
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 (4x1 GB 667 MHz ECC CL5 DDR2)
Disk Subsystem:	1 x 80 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional x64 Edition SP2
Compiler:	Intel C++ Compiler for IA-32, Version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Microsoft Visual Studio 2005 SP1
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library 8.0

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	465	21.0	465	21.0	**465**	**21.0**	408	23.9	408	24.0	**408**	**24.0**
401.bzip2	**619**	**15.6**	619	15.6	619	15.6	597	16.2	597	16.2	**597**	**16.2**
403.gcc	600	13.4	600	13.4	**600**	**13.4**	531	15.2	531	15.2	**531**	**15.2**
429.mcf	375	24.3	374	24.4	**375**	**24.4**	375	24.3	374	24.4	**375**	**24.4**
445.gobmk	549	19.1	549	19.1	**549**	**19.1**	495	21.2	**495**	**21.2**	495	21.2
456.hmmer	607	15.4	607	15.4	**607**	**15.4**	600	15.6	**600**	**15.6**	600	15.6
458.sjeng	701	17.3	**701**	**17.3**	701	17.3	615	19.7	**616**	**19.6**	616	19.6
462.libquantum	922	22.5	920	22.5	**920**	**22.5**	**718**	**28.9**	715	29.0	719	28.8
464.h264ref	740	29.9	**740**	**29.9**	740	29.9	698	31.7	**698**	**31.7**	698	31.7
471.omnetpp	425	14.7	425	14.7	**425**	**14.7**	385	16.2	**385**	**16.2**	385	16.2
473.astar	487	14.4	**487**	**14.4**	487	14.4	451	15.6	**451**	**15.6**	451	15.6
483.xalancbmk	**331**	**20.9**	331	20.9	331	20.9	**315**	**21.9**	315	21.9	315	21.9

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

General Notes

```
Binaries were built on Windows Vista Ultimate (64-bit)
```

Base Compiler Invocation

C benchmarks:

```
icl -Qstd=c99
```

C++ benchmarks:

```
icl
```

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 -Qstd=c99`

C++ benchmarks:
`icl`

Peak Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Peak Optimization Flags

C benchmarks:

400.perlbench: `ONESTEP -Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qansi-alias -Qprefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

401.bzip2: `ONESTEP -Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

403.gcc: `ONESTEP -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: `ONESTEP -Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll2 -Qansi-alias /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

458.sjeng: `ONESTEP -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: ONESTEP -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:
ONESTEP -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.ic10.windows.flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic10.windows.flags.xml

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

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