SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

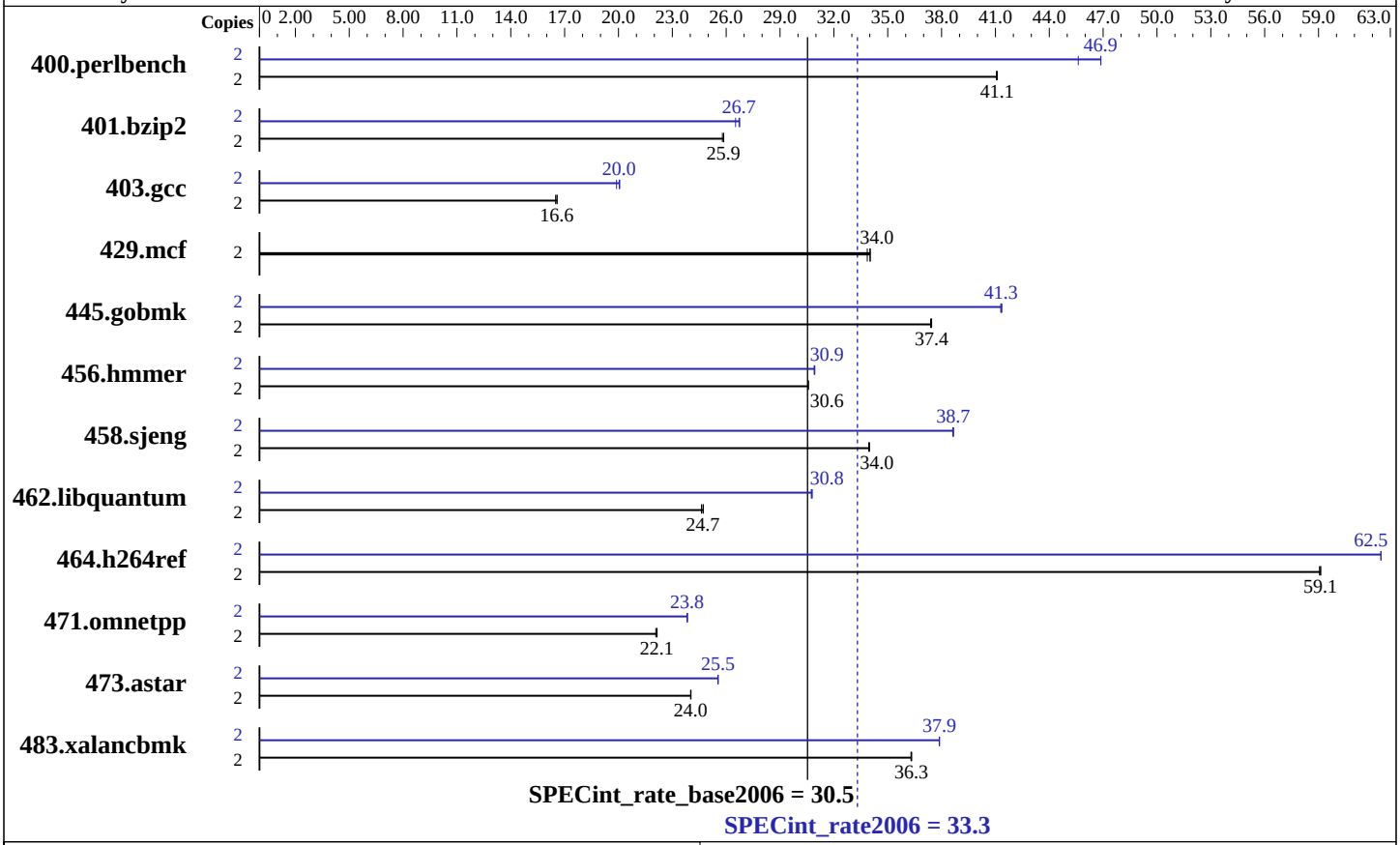
Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECint®_rate2006 = 33.3

SPECint_rate_base2006 = 30.5

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

SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECint_rate2006 = 33.3

SPECint_rate_base2006 = 30.5

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

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

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	**476**	**41.1**	476	41.1	475	41.1	2	428	45.6	**417**	**46.9**	417	46.9
401.bzip2	2	748	25.8	**746**	**25.9**	746	25.9	2	728	26.5	**722**	**26.7**	721	26.8
403.gcc	2	976	16.5	971	16.6	**971**	**16.6**	2	**803**	**20.0**	802	20.1	809	19.9
429.mcf	2	539	33.9	536	34.0	**536**	**34.0**	2	539	33.9	536	34.0	**536**	**34.0**
445.gobmk	2	561	37.4	560	37.4	**560**	**37.4**	2	**508**	**41.3**	507	41.4	508	41.3
456.hmmer	2	610	30.6	611	30.6	**610**	**30.6**	2	603	30.9	604	30.9	**604**	**30.9**
458.sjeng	2	713	33.9	712	34.0	**713**	**34.0**	2	627	38.6	**626**	**38.7**	626	38.7
462.libquantum	2	1683	24.6	1676	24.7	**1677**	**24.7**	2	1348	30.7	1346	30.8	**1347**	**30.8**
464.h264ref	2	**749**	**59.1**	750	59.1	749	59.1	2	**708**	**62.5**	708	62.5	708	62.5
471.omnetpp	2	566	22.1	564	22.2	**565**	**22.1**	2	**525**	**23.8**	524	23.8	525	23.8
473.astar	2	**584**	**24.0**	584	24.0	585	24.0	2	**550**	**25.5**	550	25.5	549	25.6
483.xalancbmk	2	380	36.3	**380**	**36.3**	380	36.3	2	364	37.9	364	37.9	**364**	**37.9**

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

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 13:09:30 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 4 September 2007.