SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

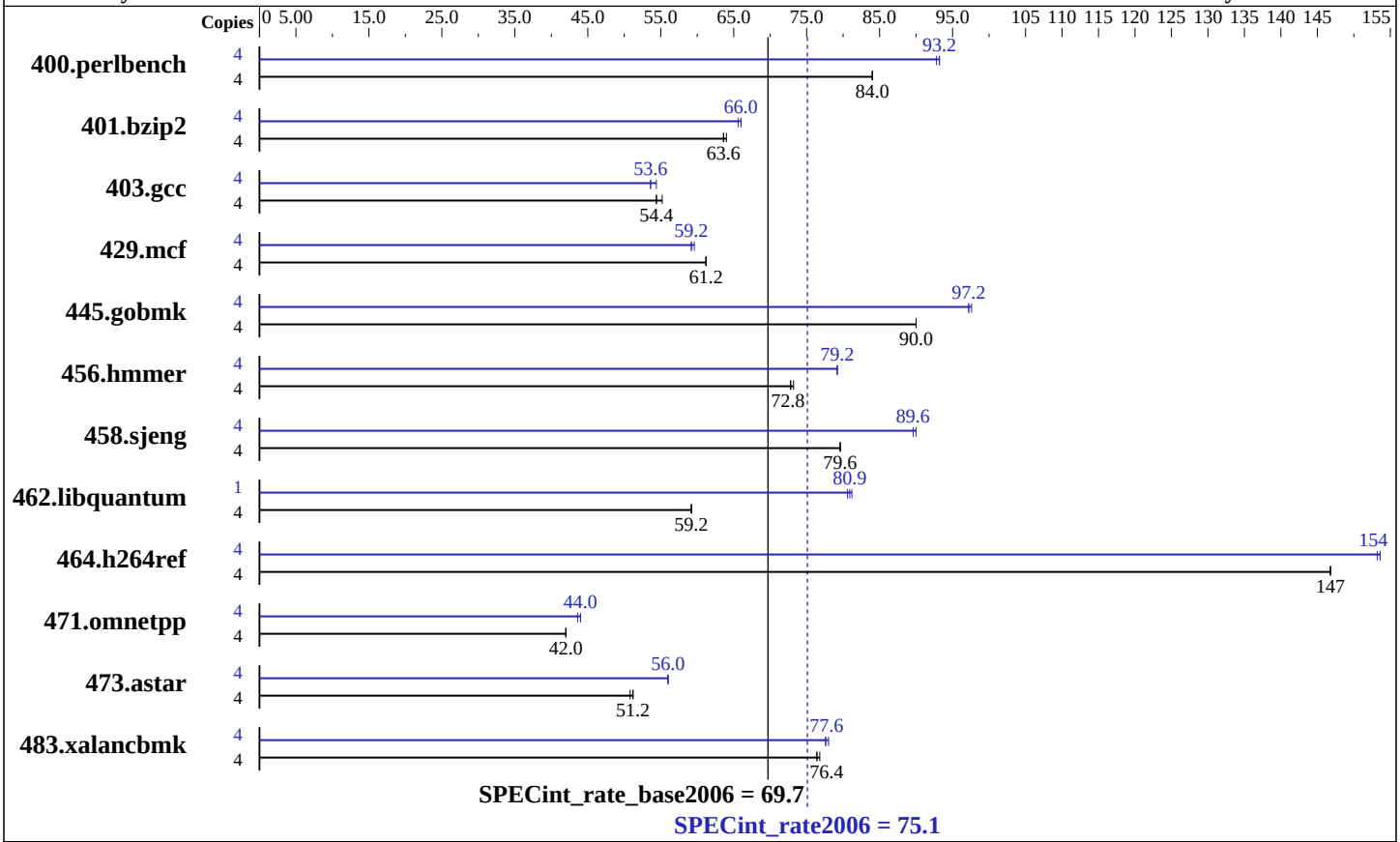
Dell Precision R5400 (Intel X5270, 3.50 GHz)

SPECint®_rate2006 = 75.1

SPECint_rate_base2006 = 69.7

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

Test date: Sep-2008
Hardware Availability: Oct-2008
Software Availability: Mar-2008



Hardware

CPU Name:	Intel Xeon X5270
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3500
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:	6 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (4x4 GB 667 MHz CL5 FB-DIMM)
Disk Subsystem:	1 x 320 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Business SP1 (64-bit)
Compiler:	Intel C++ Compiler for IA-32, Version 10.1 Build 20080312 Package ID: w_cc_p_10.1.021 Microsoft Visual Studio 2005 SP1
Auto Parallel:	Yes
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library 8.1

SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision R5400 (Intel X5270, 3.50 GHz)

SPECint_rate2006 = 75.1

SPECint_rate_base2006 = 69.7

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

Test date: Sep-2008
Hardware Availability: Oct-2008
Software Availability: Mar-2008

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	466	84.0	**466**	**84.0**	466	84.0	4	419	93.2	**419**	**93.2**	421	92.8
401.bzip2	4	606	63.6	603	64.0	**606**	**63.6**	4	585	66.0	**586**	**66.0**	589	65.6
403.gcc	4	582	55.2	594	54.4	**593**	**54.4**	4	**599**	**53.6**	602	53.6	593	54.4
429.mcf	4	598	61.2	**597**	**61.2**	596	61.2	4	**614**	**59.2**	613	59.6	615	59.2
445.gobmk	4	466	90.0	**466**	**90.0**	467	90.0	4	431	97.6	**431**	**97.2**	431	97.2
456.hmmer	4	512	72.8	**511**	**72.8**	511	73.2	4	**471**	**79.2**	471	79.2	472	79.2
458.sjeng	4	609	79.6	608	79.6	**609**	**79.6**	4	539	89.6	539	90.0	**539**	**89.6**
462.libquantum	4	1400	59.2	1401	59.2	**1400**	**59.2**	1	**256**	**80.9**	257	80.6	255	81.2
464.h264ref	4	603	147	604	147	**603**	**147**	4	577	154	578	153	**577**	**154**
471.omnetpp	4	597	42.0	598	42.0	**598**	**42.0**	4	569	44.0	573	43.6	**569**	**44.0**
473.astar	4	**550**	**51.2**	552	50.8	550	51.2	4	**502**	**56.0**	502	56.0	502	56.0
483.xalancbmk	4	**361**	**76.4**	361	76.4	360	76.8	4	355	77.6	**355**	**77.6**	354	78.0

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`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

Base Optimization Flags

C benchmarks:

```
-fast -Qvec-guard-write /F512000000
```

Continued on next page

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 -Qstd=c99

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: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch /F512000000

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000

429.mcf: Same as 401.bzip2

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec-div- -Qansi-alias /F512000000

Continued on next page

Peak Optimization Flags (Continued)

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always -Qparallel -Qpar-runtime-control /F512000000 shlw32mt.lib

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=block -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=routine -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: -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.ic10.1.windows.flags.20090713.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090713.xml

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision R5400 (Intel X5270, 3.50 GHz)

SPECint_rate2006 = 75.1

SPECint_rate_base2006 = 69.7

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

Test date: Sep-2008
Hardware Availability: Oct-2008
Software Availability: Mar-2008

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 v1.1.
Report generated on Tue Jul 22 22:18:46 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 14 October 2008.