



# SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint®\_rate2006 = 52.9

Dell Precision 390 (Intel QX6800, 2.93 GHz)

SPECint\_rate\_base2006 = 49.7

CPU2006 license: 55

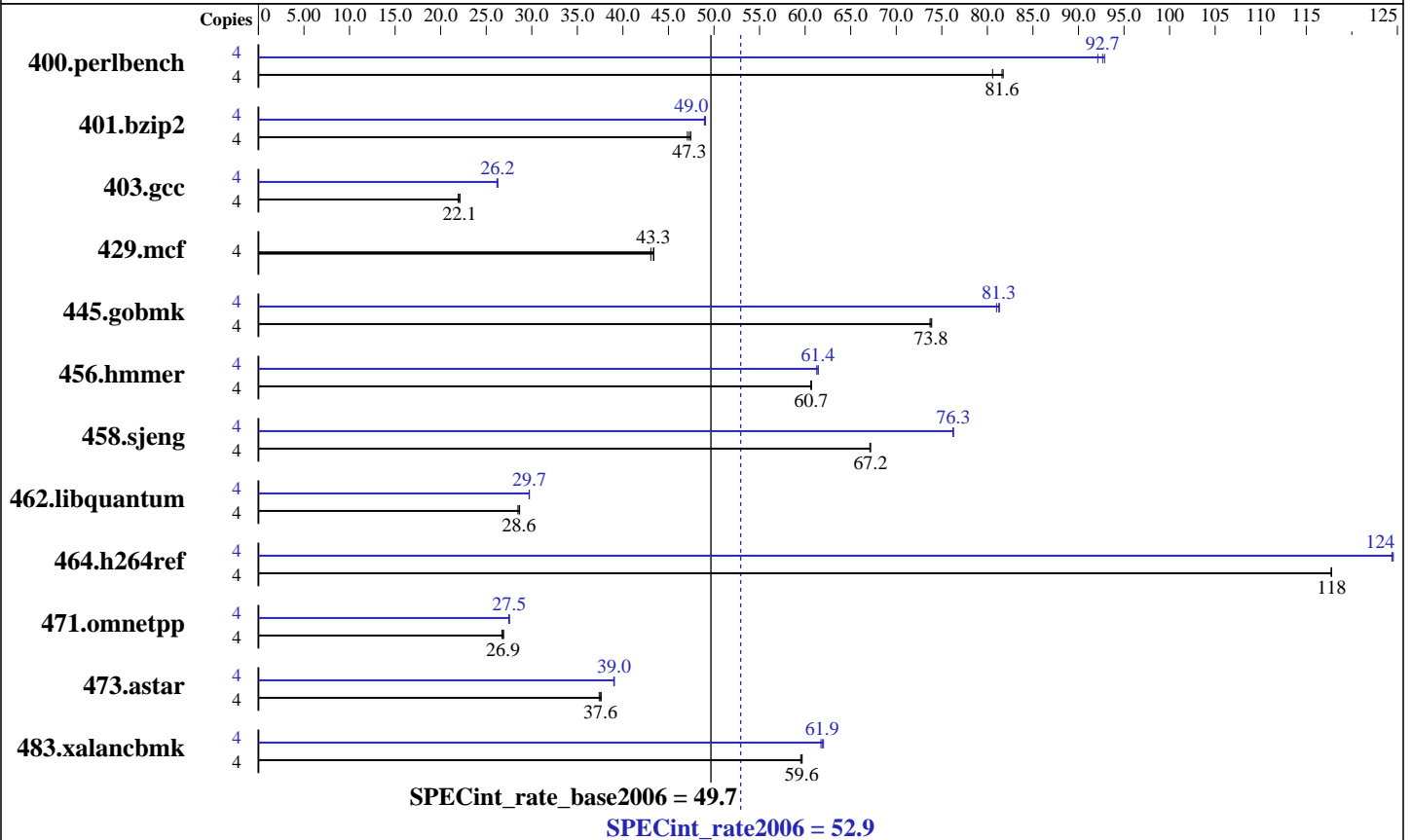
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: Sep-2007

Tested by: Dell Inc.

Software Availability: Jun-2007



## Hardware

CPU Name: Intel Core 2 Extreme QX6800  
 CPU Characteristics: 1066 MHz Bus Speed  
 CPU MHz: 2933  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (4x2 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.

SPECint\_rate2006 = 52.9

Dell Precision 390 (Intel QX6800, 2.93 GHz)

SPECint\_rate\_base2006 = 49.7

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	4	485	80.6	<b>479</b>	<b>81.6</b>	478	81.7	4	<b>422</b>	<b>92.7</b>	421	92.9	424	92.1
401.bzip2	4	820	47.1	<b>816</b>	<b>47.3</b>	813	47.5	4	789	48.9	787	49.1	<b>788</b>	<b>49.0</b>
403.gcc	4	1469	21.9	<b>1459</b>	<b>22.1</b>	1456	22.1	4	1226	26.3	1230	26.2	<b>1227</b>	<b>26.2</b>
429.mcf	4	847	43.1	841	43.4	<b>842</b>	<b>43.3</b>	4	847	43.1	841	43.4	<b>842</b>	<b>43.3</b>
445.gobmk	4	568	73.9	<b>568</b>	<b>73.8</b>	569	73.7	4	518	81.0	<b>516</b>	<b>81.3</b>	516	81.3
456.hammer	4	<b>615</b>	<b>60.7</b>	615	60.6	615	60.7	4	609	61.3	607	61.4	<b>608</b>	<b>61.4</b>
458.sjeng	4	<b>721</b>	<b>67.2</b>	721	67.2	721	67.1	4	<b>635</b>	<b>76.3</b>	635	76.2	635	76.3
462.libquantum	4	2910	28.5	2891	28.7	<b>2897</b>	<b>28.6</b>	4	2790	29.7	<b>2788</b>	<b>29.7</b>	2787	29.7
464.h264ref	4	752	118	<b>752</b>	<b>118</b>	752	118	4	711	125	712	124	<b>711</b>	<b>124</b>
471.omnetpp	4	936	26.7	929	26.9	<b>931</b>	<b>26.9</b>	4	910	27.5	908	27.5	<b>908</b>	<b>27.5</b>
473.astar	4	751	37.4	747	37.6	<b>748</b>	<b>37.6</b>	4	720	39.0	719	39.1	<b>719</b>	<b>39.0</b>
483.xalancbmk	4	464	59.5	<b>463</b>	<b>59.6</b>	463	59.7	4	445	62.0	447	61.7	<b>446</b>	<b>61.9</b>

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



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint\_rate2006 = 52.9

Dell Precision 390 (Intel QX6800, 2.93 GHz)

SPECint\_rate\_base2006 = 49.7

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

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

## 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.hmmr: ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
-Qunroll12 -Qansi-alias /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

458.sjeng: ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
-Qunroll14 /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint\_rate2006 = 52.9

Dell Precision 390 (Intel QX6800, 2.93 GHz)

SPECint\_rate\_base2006 = 49.7

CPU2006 license: 55

Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: Sep-2007

Tested by: Dell Inc.

Software Availability: Jun-2007

## Peak Optimization Flags (Continued)

462.libquantum: ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
-Qunroll14 -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](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 13:17:06 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 4 September 2007.