



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®\_rate2006 = 60.8

Dell Precision 690 (Intel 5160, 3.00 GHz)

SPECint\_rate\_base2006 = 56.6

CPU2006 license: 55

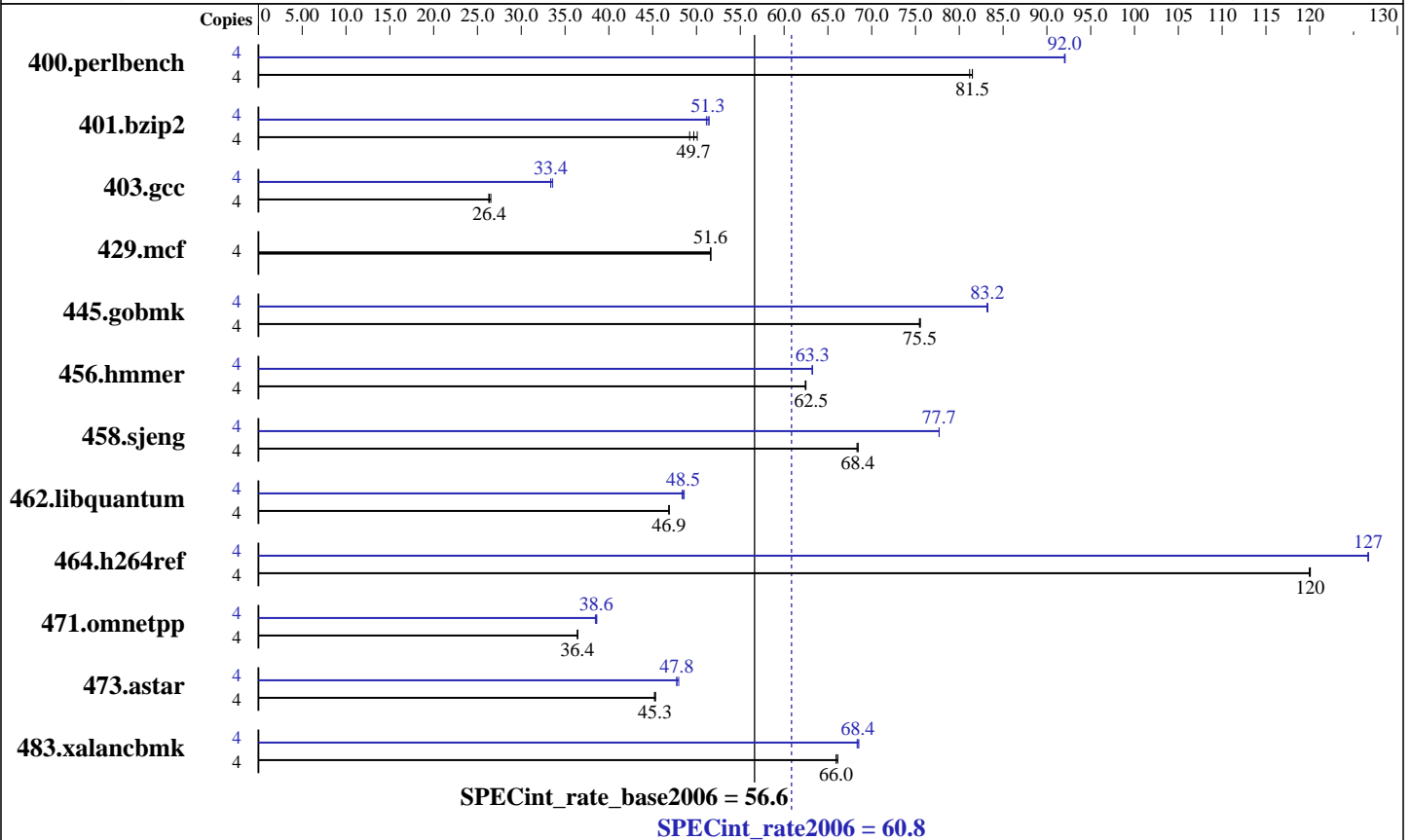
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: May-2006

Tested by: Dell Inc.

Software Availability: Jun-2007



## Hardware

CPU Name: Intel Xeon 5160  
 CPU Characteristics: 1333 MHz Bus Speed  
 CPU MHz: 3000  
 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: 4 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (8x1 GB 667 MHz ECC CL5 FB-DIMM)  
 Disk Subsystem: 1 x 73GB SAS 10K 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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	481	81.2	<b>480</b>	<b>81.5</b>	480	81.5	4	425	92.0	424	92.1	<b>425</b>	<b>92.0</b>
401.bzip2	4	784	49.2	771	50.1	<b>777</b>	<b>49.7</b>	4	755	51.1	750	51.4	<b>752</b>	<b>51.3</b>
403.gcc	4	1225	26.3	<b>1222</b>	<b>26.4</b>	1214	26.5	4	965	33.4	<b>965</b>	<b>33.4</b>	959	33.6
429.mcf	4	706	51.6	707	51.6	<b>707</b>	<b>51.6</b>	4	706	51.6	707	51.6	<b>707</b>	<b>51.6</b>
445.gobmk	4	555	75.6	556	75.4	<b>556</b>	<b>75.5</b>	4	505	83.2	<b>504</b>	<b>83.2</b>	504	83.3
456.hammer	4	598	62.4	597	62.5	<b>598</b>	<b>62.5</b>	4	<b>590</b>	<b>63.3</b>	591	63.2	590	63.3
458.sjeng	4	<b>707</b>	<b>68.4</b>	708	68.3	707	68.4	4	<b>623</b>	<b>77.7</b>	623	77.7	623	77.7
462.libquantum	4	<b>1769</b>	<b>46.9</b>	1768	46.9	1769	46.9	4	1706	48.6	<b>1709</b>	<b>48.5</b>	1714	48.4
464.h264ref	4	738	120	737	120	<b>737</b>	<b>120</b>	4	699	127	699	127	<b>699</b>	<b>127</b>
471.omnetpp	4	686	36.5	<b>686</b>	<b>36.4</b>	687	36.4	4	647	38.6	650	38.5	<b>648</b>	<b>38.6</b>
473.astar	4	619	45.3	<b>620</b>	<b>45.3</b>	621	45.2	4	585	48.0	588	47.7	<b>588</b>	<b>47.8</b>
483.xalancbmk	4	417	66.1	419	65.9	<b>418</b>	<b>66.0</b>	4	403	68.5	<b>403</b>	<b>68.4</b>	404	68.3

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)

### BIOS Settings

Snoop Filter : ON  
Adjacent Cache Line Prefetch : OFF  
Hardware Prefetcher : ON

### Snoop Filter

Preserves cache coherency while minimizing snoops to remote nodes.

### Adjacent Cache Line Prefetch

Prefetch data in order to shorten execution cycles and maximize data processing efficiency.

## Base Compiler Invocation

C benchmarks:  
icl -Qstd=c99

C++ benchmarks:  
icl



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## 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

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## Peak Optimization Flags (Continued)

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.hmmmer: 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

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.hmmmer

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>



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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 13:12:51 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 4 September 2007.