



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®\_rate2006 = 69.8

PowerEdge 2900 (Intel Xeon E5320, 1.86 GHz)

SPECint\_rate\_base2006 = 64.2

CPU2006 license: 55

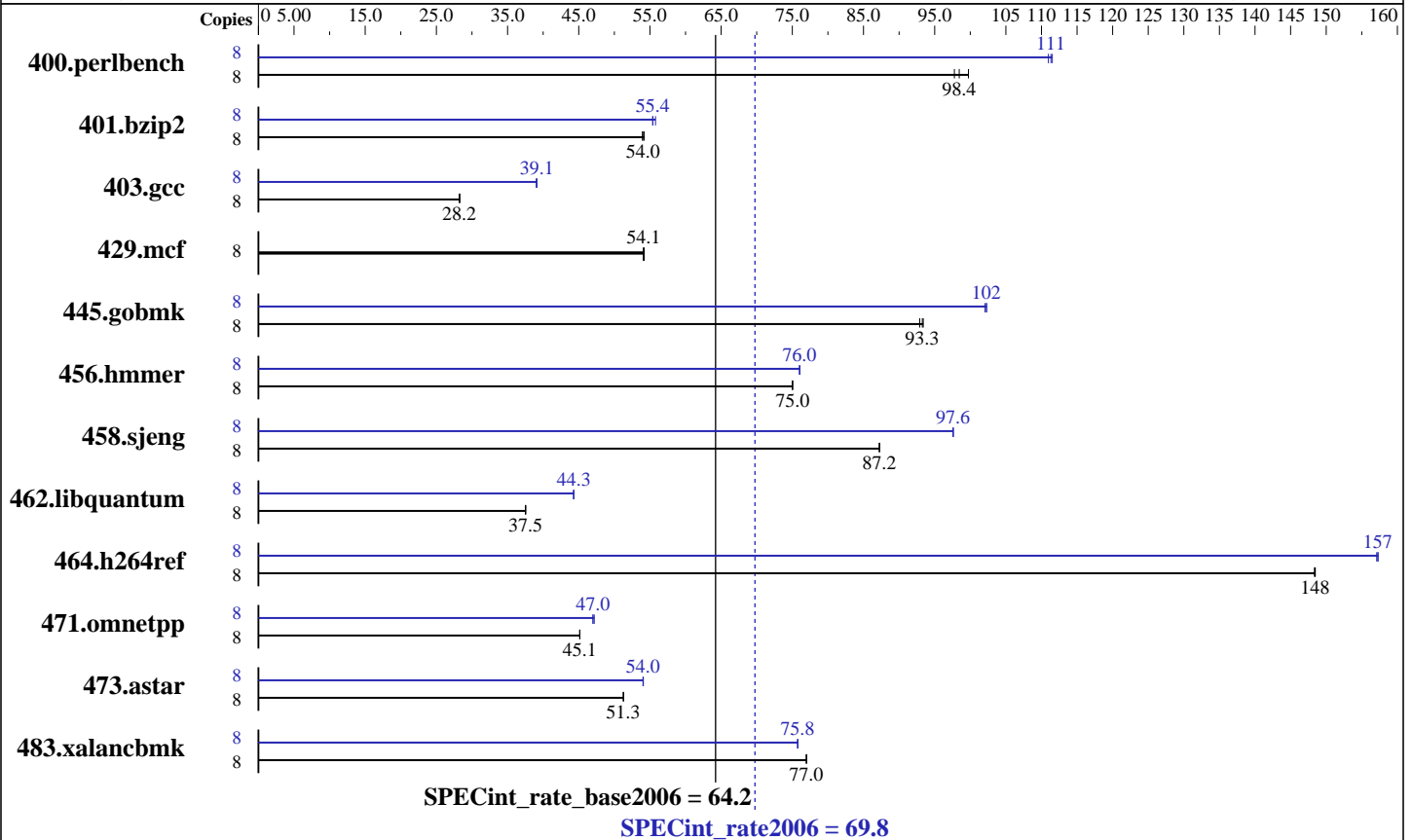
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: Dec-2006

Tested by: Dell Inc.

Software Availability: Jun-2007



## Hardware

CPU Name: Intel Xeon E5320  
 CPU Characteristics: 1066 MHz Bus Speed  
 CPU MHz: 1866  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 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 (8 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)  
 Disk Subsystem: 2 x 146 GB SAS, 15000RPM  
 Other Hardware: 1 x Gigabit Ethernet card Dual Port Integrated

## Software

Operating System: Microsoft Windows Server 2003 Enterprise x64 Edition  
 Compiler: Intel C++ Compiler for IA32 version 10.0  
 Build 20070426 Package ID: W\_CC\_P\_10.0.025  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: MicroQuill SmartHeap Library Version 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	8	784	99.7	<b>794</b>	<b>98.4</b>	799	97.8	8	701	112	<b>702</b>	<b>111</b>	704	111
401.bzip2	8	1431	53.9	1424	54.2	<b>1429</b>	<b>54.0</b>	8	<b>1393</b>	<b>55.4</b>	1394	55.4	1384	55.8
403.gcc	8	<b>2281</b>	<b>28.2</b>	2281	28.2	2276	28.3	8	1650	39.0	1647	39.1	<b>1647</b>	<b>39.1</b>
429.mcf	8	1346	54.2	<b>1348</b>	<b>54.1</b>	1349	54.1	8	1346	54.2	<b>1348</b>	<b>54.1</b>	1349	54.1
445.gobmk	8	<b>900</b>	<b>93.3</b>	903	92.9	899	93.4	8	<b>821</b>	<b>102</b>	820	102	822	102
456.hammer	8	<b>995</b>	<b>75.0</b>	995	75.0	995	75.0	8	<b>982</b>	<b>76.0</b>	982	76.0	982	76.0
458.sjeng	8	1110	87.2	1110	87.2	<b>1110</b>	<b>87.2</b>	8	992	97.6	992	97.6	<b>992</b>	<b>97.6</b>
462.libquantum	8	4417	37.5	<b>4417</b>	<b>37.5</b>	4417	37.5	8	3742	44.3	<b>3742</b>	<b>44.3</b>	3743	44.3
464.h264ref	8	1193	148	1193	148	<b>1193</b>	<b>148</b>	8	1126	157	1127	157	<b>1126</b>	<b>157</b>
471.omnetpp	8	1108	45.1	<b>1107</b>	<b>45.1</b>	1107	45.2	8	1064	47.0	1060	47.2	<b>1064</b>	<b>47.0</b>
473.astar	8	<b>1096</b>	<b>51.3</b>	1096	51.3	1095	51.3	8	1039	54.0	<b>1039</b>	<b>54.0</b>	1039	54.1
483.xalancbmk	8	717	77.0	<b>717</b>	<b>77.0</b>	717	77.0	8	728	75.8	729	75.7	<b>729</b>	<b>75.8</b>

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

## General Notes

"start /b /wait /affinity" used to bind processes to cores

## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99  
C++ benchmarks:  
icl -Qvc7.1

## Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32



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## 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 -Qvc7.1 -Qc99

C++ benchmarks:  
icl -Qvc7.1

## Peak Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32

## Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qprefetch /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

401.bzip2: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F512000000  
shlw32m.lib -link /FORCE:MULTIPLE

403.gcc: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F512000000  
-link /FORCE:MULTIPLE

429.mcf: basepeak = yes

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## Peak Optimization Flags (Continued)

445.gobmk: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxT -O2 -Qipo  
-Qprec\_div- -Qansi-alias /F512000000  
-link /FORCE:MULTIPLE

456.hmmer: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

458.sjeng: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -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:

-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-Intel-ic10-ia32.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Dell-Intel-ic10-ia32.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).

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