



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®\_rate2006 = 41.1

PowerEdge 2900 (Intel Xeon E5320, 1.86 GHz)

SPECint\_rate\_base2006 = 38.0

CPU2006 license: 55

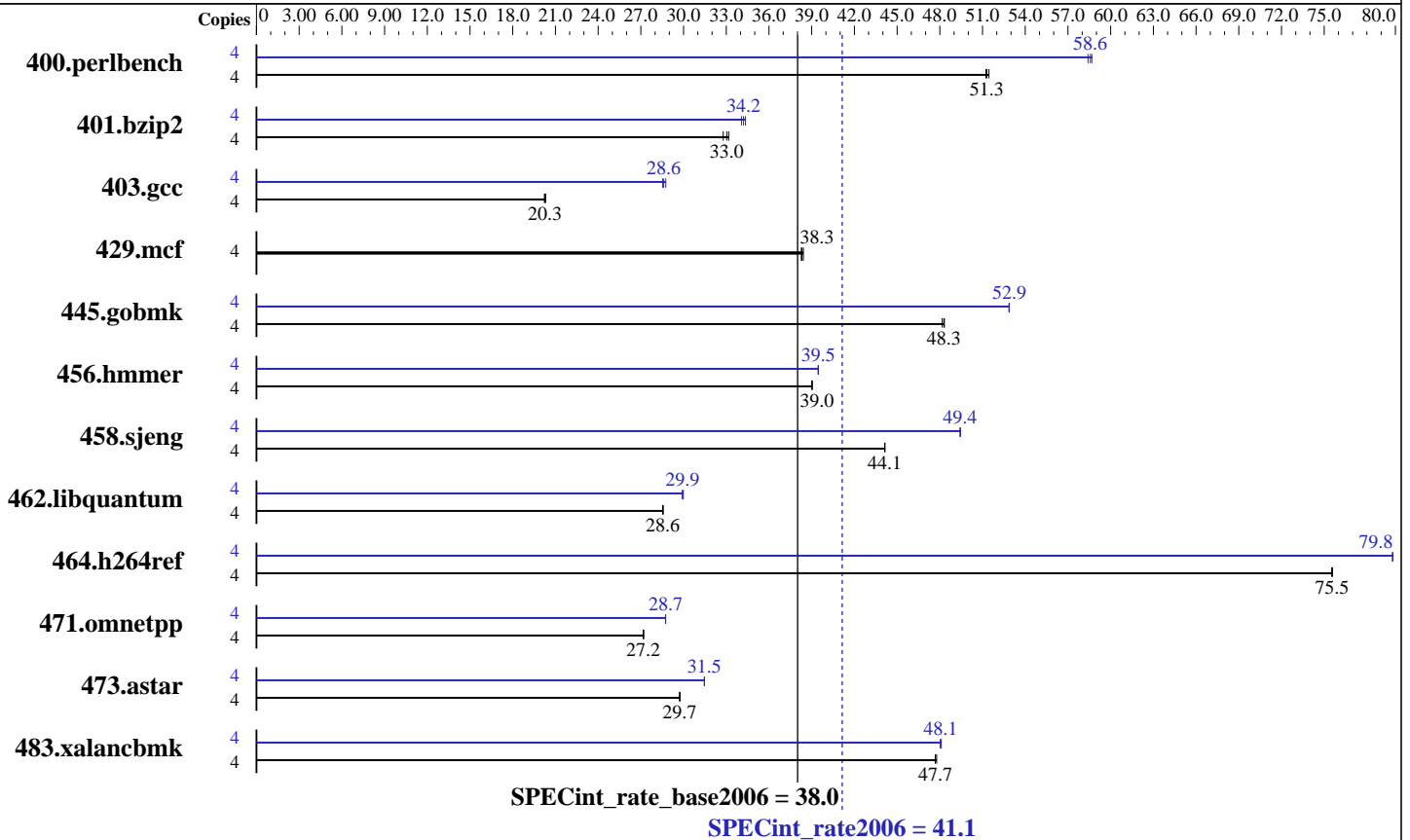
Test date: Aug-2007

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: 4 cores, 1 chip, 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: 146 GB SAS 15K RPM  
 Other Hardware: None

### 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	4	760	51.5	763	51.2	<b>762</b>	<b>51.3</b>	4	666	58.7	669	58.4	<b>667</b>	<b>58.6</b>
401.bzip2	4	<b>1169</b>	<b>33.0</b>	1164	33.2	1177	32.8	4	<b>1128</b>	<b>34.2</b>	1133	34.1	1124	34.3
403.gcc	4	1592	20.2	<b>1589</b>	<b>20.3</b>	1585	20.3	4	1128	28.5	1120	28.8	<b>1126</b>	<b>28.6</b>
429.mcf	4	953	38.3	<b>952</b>	<b>38.3</b>	950	38.4	4	953	38.3	<b>952</b>	<b>38.3</b>	950	38.4
445.gobmk	4	868	48.3	<b>869</b>	<b>48.3</b>	871	48.2	4	794	52.9	<b>793</b>	<b>52.9</b>	793	52.9
456.hammer	4	956	39.0	956	39.0	<b>956</b>	<b>39.0</b>	4	<b>946</b>	<b>39.5</b>	946	39.5	946	39.5
458.sjeng	4	<b>1097</b>	<b>44.1</b>	1097	44.1	1097	44.1	4	979	49.4	<b>979</b>	<b>49.4</b>	979	49.4
462.libquantum	4	2901	28.6	2904	28.5	<b>2903</b>	<b>28.6</b>	4	2764	30.0	2770	29.9	<b>2770</b>	<b>29.9</b>
464.h264ref	4	<b>1172</b>	<b>75.5</b>	1172	75.5	1171	75.6	4	1109	79.8	<b>1109</b>	<b>79.8</b>	1109	79.8
471.omnetpp	4	920	27.2	<b>920</b>	<b>27.2</b>	919	27.2	4	<b>870</b>	<b>28.7</b>	870	28.7	870	28.7
473.astar	4	945	29.7	<b>944</b>	<b>29.7</b>	944	29.7	4	892	31.5	893	31.5	<b>892</b>	<b>31.5</b>
483.xalancbmk	4	<b>579</b>	<b>47.7</b>	579	47.7	578	47.8	4	575	48.0	<b>574</b>	<b>48.1</b>	574	48.1

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

## Base Optimization Flags

C benchmarks:  
-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE  
C++ benchmarks:  
-fast -Qcxx\_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE



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## 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

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

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## Peak Optimization Flags (Continued)

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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