



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®\_rate2006 = 41.6

PowerEdge 1950 (Intel Xeon E5320, 1.86 GHz)

SPECint\_rate\_base2006 = 38.3

CPU2006 license: 55

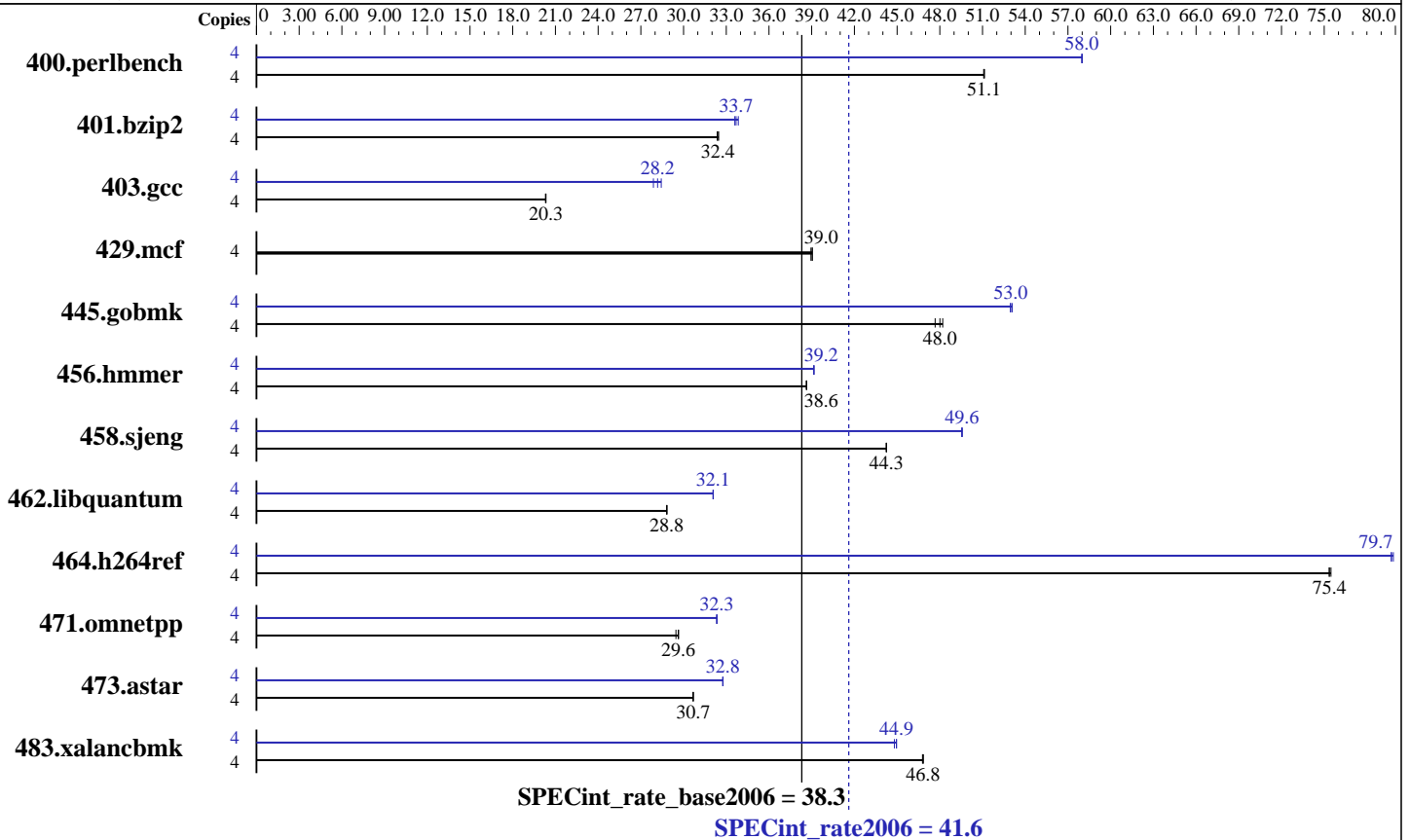
Test date: Aug-2007

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	765	51.1	764	51.1	<b>765</b>	<b>51.1</b>	4	<b>674</b>	<b>58.0</b>	674	58.0	674	58.0
401.bzip2	4	1193	32.4	1189	32.5	<b>1191</b>	<b>32.4</b>	4	1140	33.8	1149	33.6	<b>1146</b>	<b>33.7</b>
403.gcc	4	1586	20.3	<b>1584</b>	<b>20.3</b>	1584	20.3	4	1132	28.4	<b>1143</b>	<b>28.2</b>	1155	27.9
429.mcf	4	934	39.0	<b>935</b>	<b>39.0</b>	937	38.9	4	934	39.0	<b>935</b>	<b>39.0</b>	937	38.9
445.gobmk	4	880	47.7	870	48.2	<b>874</b>	<b>48.0</b>	4	792	53.0	<b>792</b>	<b>53.0</b>	790	53.1
456.hammer	4	966	38.7	967	38.6	<b>966</b>	<b>38.6</b>	4	<b>953</b>	<b>39.2</b>	953	39.2	953	39.2
458.sjeng	4	1093	44.3	1094	44.2	<b>1094</b>	<b>44.3</b>	4	976	49.6	<b>977</b>	<b>49.6</b>	977	49.5
462.libquantum	4	2876	28.8	<b>2876</b>	<b>28.8</b>	2875	28.8	4	<b>2584</b>	<b>32.1</b>	2584	32.1	2583	32.1
464.h264ref	4	<b>1175</b>	<b>75.4</b>	1175	75.3	1173	75.5	4	<b>1110</b>	<b>79.7</b>	1108	79.9	1110	79.7
471.omnetpp	4	843	29.7	<b>844</b>	<b>29.6</b>	849	29.5	4	<b>773</b>	<b>32.3</b>	773	32.3	773	32.3
473.aster	4	916	30.7	<b>915</b>	<b>30.7</b>	915	30.7	4	<b>857</b>	<b>32.8</b>	857	32.8	857	32.8
483.xalancbmk	4	589	46.8	<b>589</b>	<b>46.8</b>	590	46.8	4	614	45.0	616	44.8	<b>614</b>	<b>44.9</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

## 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-intel64-win.html>

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

<http://www.spec.org/cpu2006/flags/Dell-Intel-ic10-ia32-intel64-win.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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