



# SPEC® CINT2006 Result

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## IBM Corporation

### SPECint®\_rate2006 = Not Run

### IBM BladeCenter HS21 XM (Intel Xeon 5160)

### SPECint\_rate\_base2006 = 52.9

CPU2006 license: 11

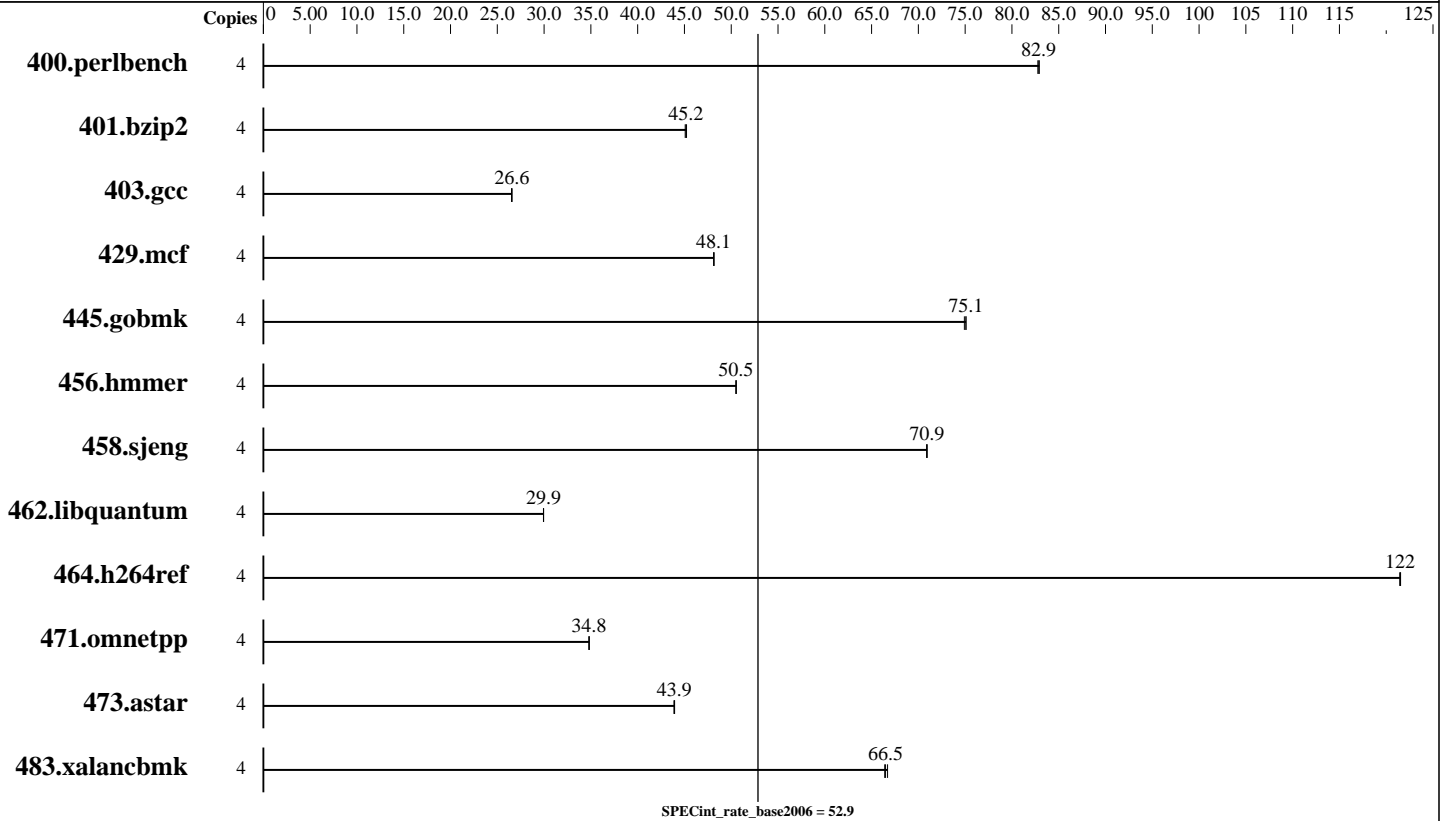
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



#### Hardware

CPU Name: Intel Xeon 5160  
 CPU Characteristics: 1333MHz system bus  
 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: 16 GB (8 x 2GB DDR2-5300F ECC)  
 Disk Subsystem: 1 x 74 GB SAS, 1000 RPM  
 Other Hardware: None

#### Software

Operating System: Microsoft Windows Server 2003 Enterprise x64 Edition + SP1 (64-bit)  
 Compiler: Intel C++ Compiler for IA32 version 9.1 Build no 20060816 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: Not Applicable  
 Other Software: Smart Heap Library, Version 8



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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	<b>472</b>	<b>82.9</b>	472	82.8	471	82.9							
401.bzip2	4	<b>855</b>	<b>45.2</b>	854	45.2	856	45.1							
403.gcc	4	1214	26.5	<b>1213</b>	<b>26.6</b>	1212	26.6							
429.mcf	4	758	48.1	757	48.2	<b>758</b>	<b>48.1</b>							
445.gobmk	4	560	74.9	559	75.1	<b>559</b>	<b>75.1</b>							
456.hammer	4	739	50.5	<b>739</b>	<b>50.5</b>	739	50.5							
458.sjeng	4	682	70.9	<b>683</b>	<b>70.9</b>	683	70.9							
462.libquantum	4	<b>2768</b>	<b>29.9</b>	2769	29.9	2768	29.9							
464.h264ref	4	<b>729</b>	<b>122</b>	729	121	728	122							
471.omnetpp	4	<b>718</b>	<b>34.8</b>	718	34.8	718	34.8							
473.astar	4	<b>639</b>	<b>43.9</b>	640	43.9	639	44.0							
483.xalancbmk	4	414	66.7	416	66.4	<b>415</b>	<b>66.5</b>							

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

## 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

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090714.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090714.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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