



# SPEC<sup>®</sup> CINT2006 Result

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## IBM Corporation

## SPECint<sup>®</sup>\_rate2006 = Not Run

### IBM BladeCenter HS21 XM (Intel Xeon 5140)

## SPECint\_rate\_base2006 = 45.2

CPU2006 license: 11

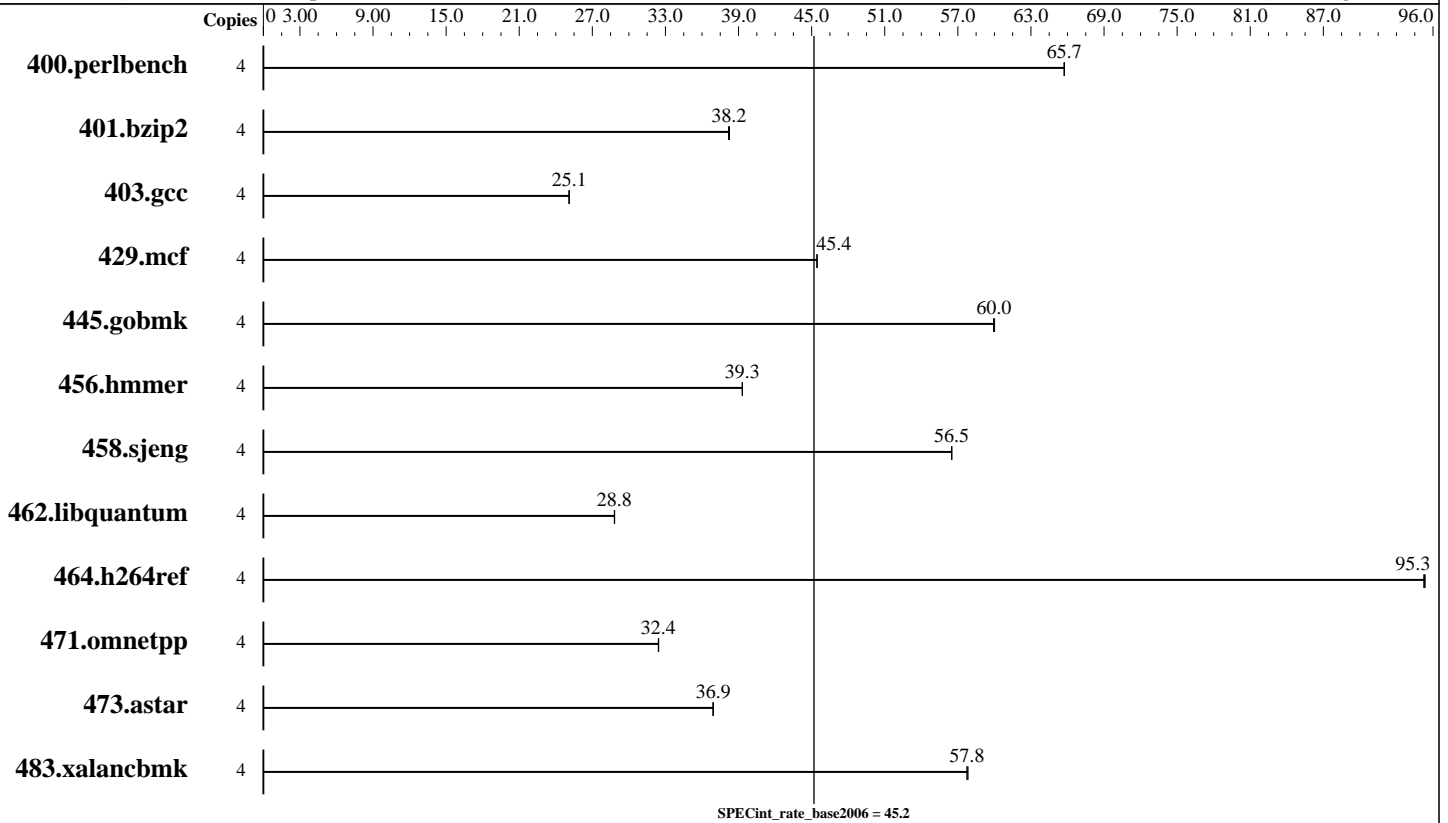
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Xeon 5140  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2333  
 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	594	65.7	<u>595</u>	<u>65.7</u>	595	65.7									
401.bzip2	4	<u>1010</u>	<u>38.2</u>	1011	38.2	1009	38.3									
403.gcc	4	1283	25.1	1284	25.1	<u>1283</u>	<u>25.1</u>									
429.mcf	4	<u>803</u>	<u>45.4</u>	803	45.4	803	45.4									
445.gobmk	4	<u>700</u>	<u>60.0</u>	700	59.9	699	60.0									
456.hammer	4	949	39.3	<u>949</u>	<u>39.3</u>	949	39.3									
458.sjeng	4	857	56.5	857	56.5	<u>857</u>	<u>56.5</u>									
462.libquantum	4	2877	28.8	<u>2876</u>	<u>28.8</u>	2875	28.8									
464.h264ref	4	928	95.4	929	95.2	<u>929</u>	<u>95.3</u>									
471.omnetpp	4	770	32.4	<u>771</u>	<u>32.4</u>	771	32.4									
473.astar	4	<u>760</u>	<u>36.9</u>	761	36.9	760	36.9									
483.xalancbmk	4	477	57.8	<u>478</u>	<u>57.8</u>	478	57.8									

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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