



# SPEC® CINT2006 Result

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## IBM Corporation

## SPECint®\_rate2006 = Not Run

## IBM System x3400 (Intel Xeon E5335)

## SPECint\_rate\_base2006 = 67.2

CPU2006 license: 11

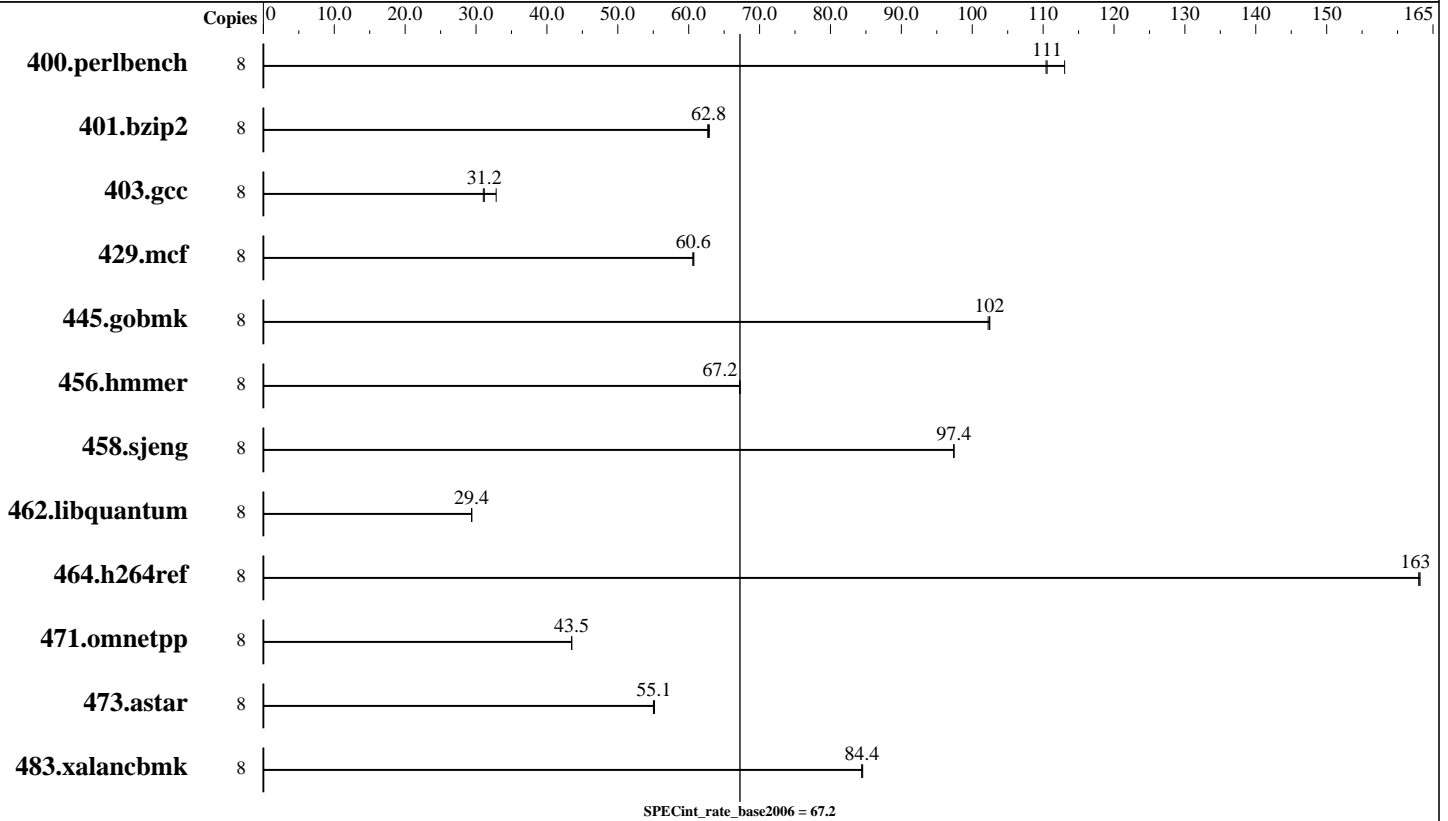
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Xeon E5335  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1 chip  
 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 1GB DDR2-5300F ECC)  
 Disk Subsystem: 1 x 80 GB SATA, 7200 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  | 8      | 691         | 113         | 708         | 110         | <b>707</b>  | <b>111</b>  |        |         |       |         |       |         |       |
| 401.bzip2      | 8      | 1232        | 62.7        | 1227        | 62.9        | <b>1229</b> | <b>62.8</b> |        |         |       |         |       |         |       |
| 403.gcc        | 8      | 1961        | 32.8        | <b>2066</b> | <b>31.2</b> | 2076        | 31.0        |        |         |       |         |       |         |       |
| 429.mcf        | 8      | <b>1203</b> | <b>60.6</b> | 1201        | 60.7        | 1204        | 60.6        |        |         |       |         |       |         |       |
| 445.gobmk      | 8      | 821         | 102         | 819         | 102         | <b>819</b>  | <b>102</b>  |        |         |       |         |       |         |       |
| 456.hammer     | 8      | 1110        | 67.2        | <b>1110</b> | <b>67.2</b> | 1111        | 67.2        |        |         |       |         |       |         |       |
| 458.sjeng      | 8      | 994         | 97.4        | 994         | 97.4        | <b>994</b>  | <b>97.4</b> |        |         |       |         |       |         |       |
| 462.libquantum | 8      | 5642        | 29.4        | <b>5642</b> | <b>29.4</b> | 5642        | 29.4        |        |         |       |         |       |         |       |
| 464.h264ref    | 8      | 1086        | 163         | <b>1086</b> | <b>163</b>  | 1085        | 163         |        |         |       |         |       |         |       |
| 471.omnetpp    | 8      | <b>1150</b> | <b>43.5</b> | 1150        | 43.5        | 1150        | 43.5        |        |         |       |         |       |         |       |
| 473.astar      | 8      | 1018        | 55.2        | <b>1019</b> | <b>55.1</b> | 1021        | 55.0        |        |         |       |         |       |         |       |
| 483.xalancbmk  | 8      | 653         | 84.5        | 654         | 84.4        | <b>654</b>  | <b>84.4</b> |        |         |       |         |       |         |       |

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

## General Notes

This result was measured on an IBM System x3400. IBM System X 3400 and IBM System X 3500 are electronically equivalent.

## 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

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## Base Optimization Flags (Continued)

C++ benchmarks:

```
-fast -Qcxx_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE
```

## 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).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 10:14:27 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 8 February 2007.