



# SPEC® CFP2006 Result

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## IBM Corporation

## SPECfp®\_rate2006 = Not Run

## IBM System x3250 (Intel Xeon X3210)

## SPECfp\_rate\_base2006 = 31.9

CPU2006 license: 11

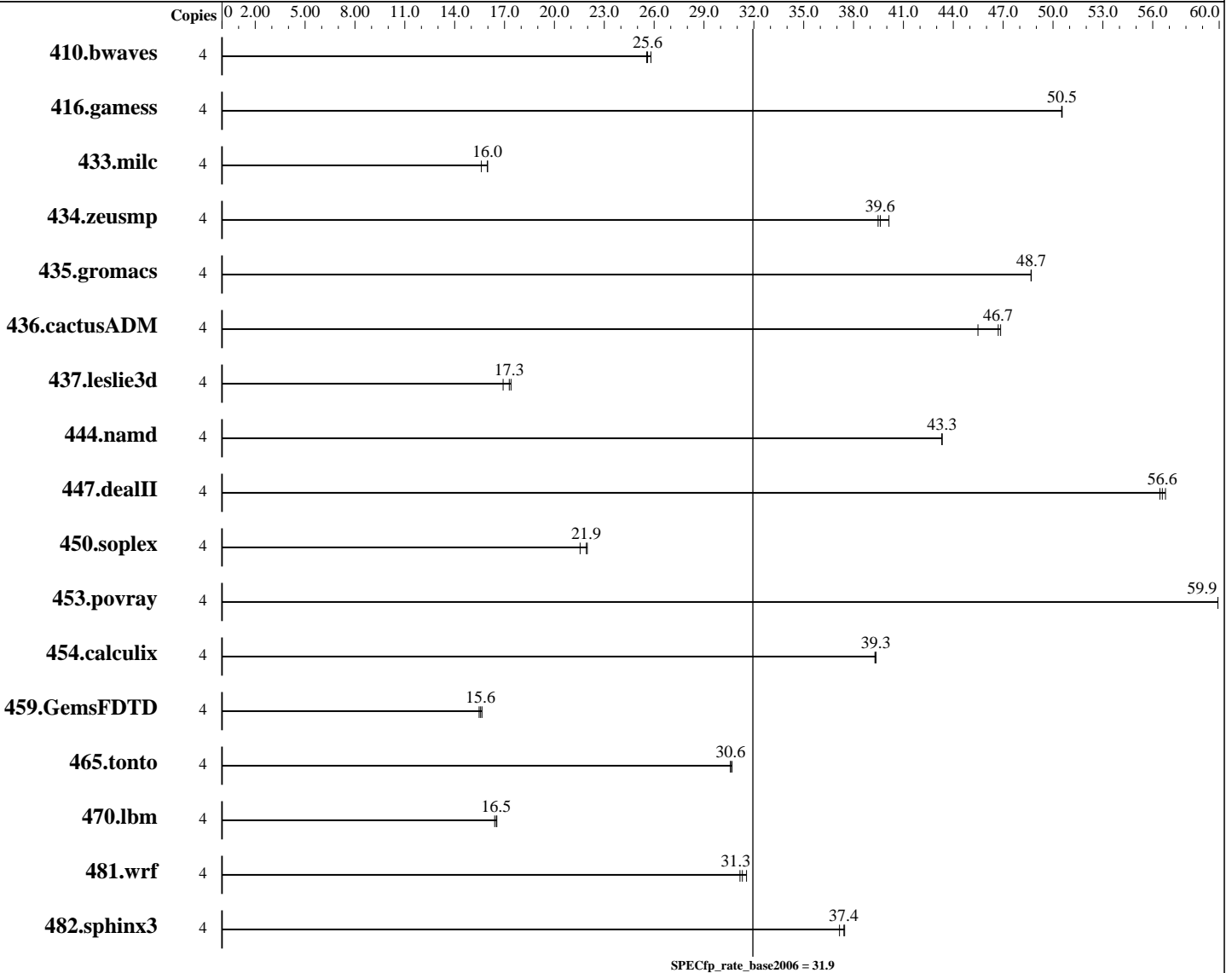
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Xeon X3210  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 2133  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 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

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### 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  
 Intel Fortran Compiler for IA32 version 9.1 Build no 20060816  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS

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L3 Cache: None  
Other Cache: None  
Memory: 8 GB (4 x 2GB PC2-5300 ECC)  
Disk Subsystem: 1 x 73 GB SAS, 10000 RPM  
Other Hardware: None

System State: Default  
Base Pointers: 32-bit  
Peak Pointers: Not Applicable  
Other Software: Smart Heap Library, Version 8

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	<u>2123</u>	<u>25.6</u>	2106	25.8	2128	25.5							
416.gamess	4	<u>1550</u>	<u>50.5</u>	1549	50.6	1550	50.5							
433.milc	4	2353	15.6	2298	16.0	<u>2300</u>	<u>16.0</u>							
434.zeusmp	4	922	39.5	907	40.1	<u>919</u>	<u>39.6</u>							
435.gromacs	4	587	48.7	<u>587</u>	<u>48.7</u>	587	48.7							
436.cactusADM	4	1051	45.5	<u>1023</u>	<u>46.7</u>	1020	46.8							
437.leslie3d	4	2223	16.9	2162	17.4	<u>2175</u>	<u>17.3</u>							
444.namd	4	741	43.3	741	43.3	<u>741</u>	<u>43.3</u>							
447.dealII	4	<u>809</u>	<u>56.6</u>	806	56.8	811	56.4							
450.soplex	4	1548	21.5	<u>1522</u>	<u>21.9</u>	1518	22.0							
453.povray	4	355	59.9	<u>355</u>	<u>59.9</u>	355	59.9							
454.calculix	4	840	39.3	<u>839</u>	<u>39.3</u>	839	39.3							
459.GemsFDTD	4	2713	15.6	2743	15.5	<u>2728</u>	<u>15.6</u>							
465.tonto	4	<u>1286</u>	<u>30.6</u>	1283	30.7	1287	30.6							
470.lbm	4	3350	16.4	<u>3330</u>	<u>16.5</u>	3324	16.5							
481.wrf	4	1434	31.2	<u>1427</u>	<u>31.3</u>	1416	31.6							
482.sphinx3	4	2098	37.2	<u>2083</u>	<u>37.4</u>	2081	37.5							

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

Fortran benchmarks:  
ifort

Benchmarks using both Fortran and C:  
icl -Qvc7.1 -Qc99 ifort



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## Base Portability Flags

```

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.deallI: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
           -DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

```

## Base Optimization Flags

```

C benchmarks:
  -fast /F950000000 shlw32m.lib          -link /FORCE:MULTIPLE

C++ benchmarks:
  -fast -Qcxx_features /F950000000 shlw32m.lib
  -link /FORCE:MULTIPLE

Fortran benchmarks:
  -fast /F950000000          -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
  -fast /F950000000          -link /FORCE:MULTIPLE

```

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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