



# SPEC® CFP2006 Result

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## IBM Corporation

## SPECfp®\_rate2006 = Not Run

### IBM BladeCenter HS21 XM (Intel Xeon 5130)

## SPECfp\_rate\_base2006 = 33.8

CPU2006 license: 11

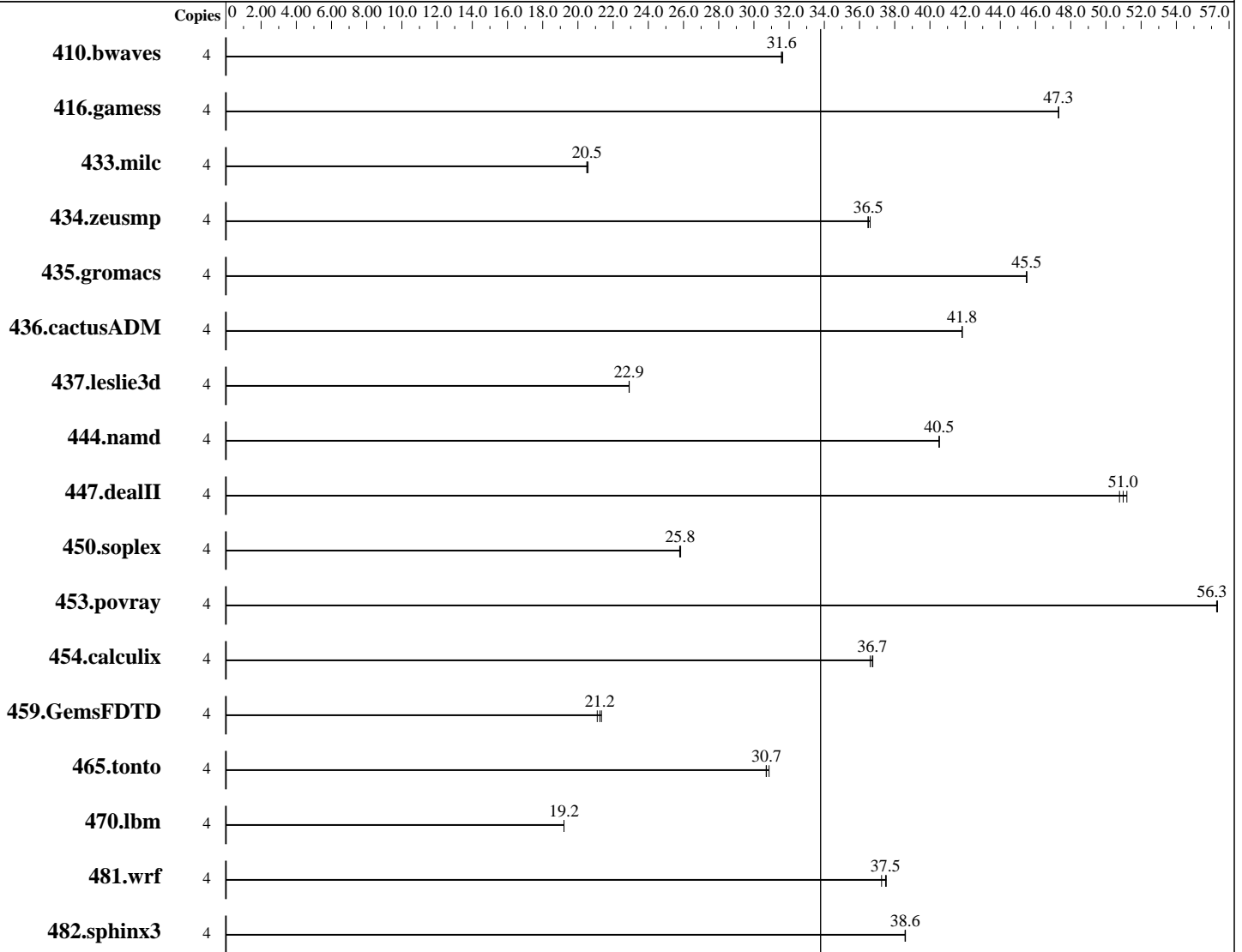
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Xeon 5130  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2000  
 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

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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: 16 GB (8 x 2GB DDR2-5300F ECC)  
Disk Subsystem: 1 x 74 GB SAS, 1000 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	1722	31.6	<u>1722</u>	<u>31.6</u>	1718	31.6							
416.gamess	4	1655	47.3	1656	47.3	<u>1655</u>	<u>47.3</u>							
433.milc	4	1784	20.6	1790	20.5	<u>1790</u>	<u>20.5</u>							
434.zeusmp	4	994	36.6	998	36.5	<u>997</u>	<u>36.5</u>							
435.gromacs	4	<u>628</u>	<u>45.5</u>	628	45.5	628	45.5							
436.cactusADM	4	1143	41.8	1143	41.8	<u>1143</u>	<u>41.8</u>							
437.leslie3d	4	1641	22.9	<u>1641</u>	<u>22.9</u>	1641	22.9							
444.namd	4	791	40.5	<u>792</u>	<u>40.5</u>	792	40.5							
447.dealII	4	901	50.8	<u>898</u>	<u>51.0</u>	894	51.2							
450.soplex	4	1294	25.8	<u>1292</u>	<u>25.8</u>	1291	25.8							
453.povray	4	378	56.3	378	56.3	<u>378</u>	<u>56.3</u>							
454.calculix	4	898	36.8	<u>899</u>	<u>36.7</u>	901	36.6							
459.GemsFDTD	4	1989	21.3	2011	21.1	<u>1998</u>	<u>21.2</u>							
465.tonto	4	1275	30.9	1282	30.7	<u>1282</u>	<u>30.7</u>							
470.lbm	4	2861	19.2	<u>2861</u>	<u>19.2</u>	2861	19.2							
481.wrf	4	1199	37.3	1191	37.5	<u>1192</u>	<u>37.5</u>							
482.sphinx3	4	2019	38.6	2020	38.6	<u>2020</u>	<u>38.6</u>							

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.dealII: -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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