



# SPEC<sup>®</sup> CFP2006 Result

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## IBM Corporation

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

### IBM BladeCenter HS21 XM (Intel Xeon 5120)

## SPECfp\_rate\_base2006 = 29.3

CPU2006 license: 11

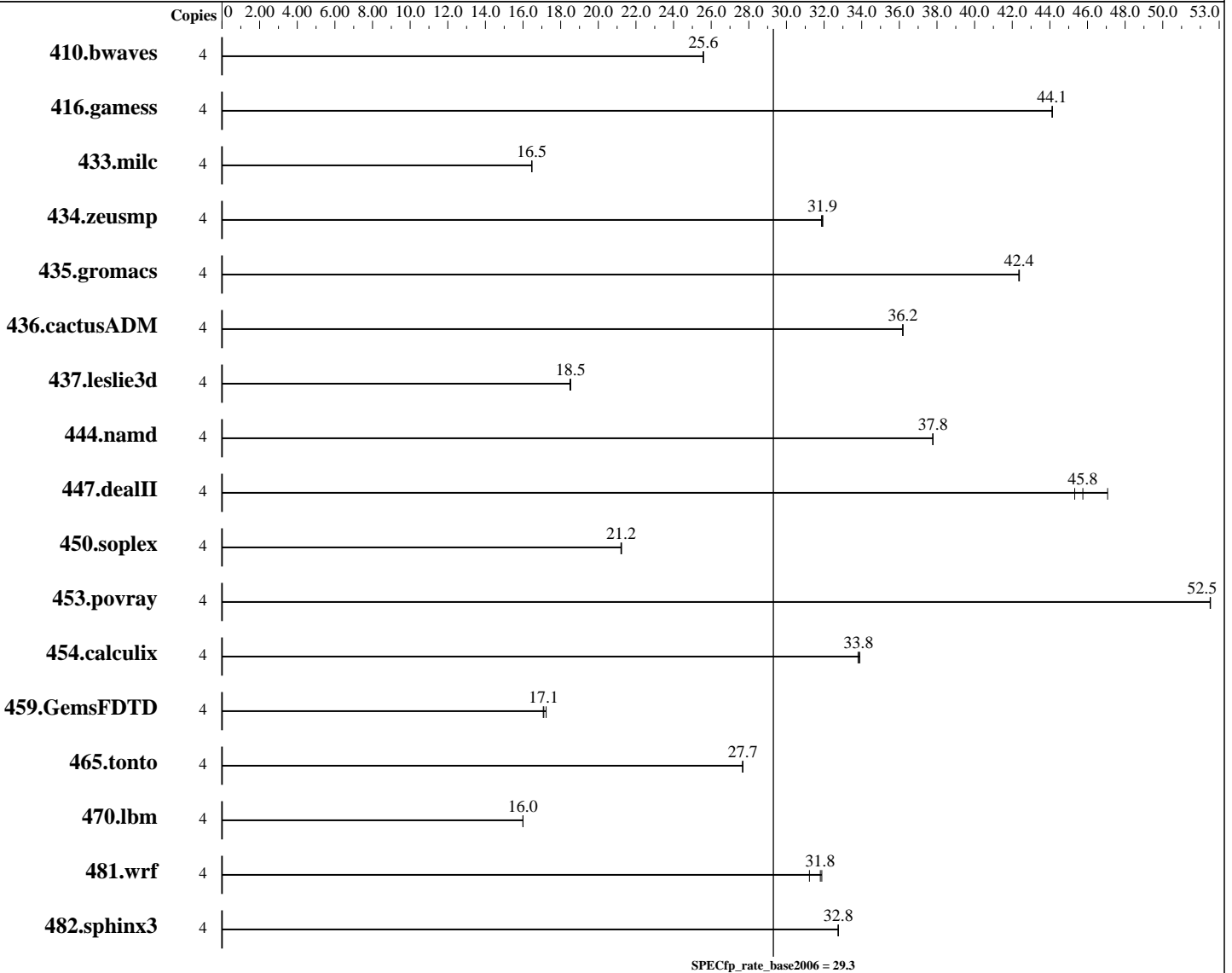
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Xeon 5120  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 1866  
 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	2125	25.6	2125	25.6	<u>2125</u>	<u>25.6</u>									
416.gamess	4	<u>1775</u>	<u>44.1</u>	1775	44.1	1775	44.1									
433.milc	4	2230	16.5	2230	16.5	<u>2230</u>	<u>16.5</u>									
434.zeusmp	4	<u>1141</u>	<u>31.9</u>	1140	31.9	1142	31.9									
435.gromacs	4	674	42.4	674	42.4	<u>674</u>	<u>42.4</u>									
436.cactusADM	4	1321	36.2	1321	36.2	<u>1321</u>	<u>36.2</u>									
437.leslie3d	4	2033	18.5	<u>2030</u>	<u>18.5</u>	2029	18.5									
444.namd	4	849	37.8	<u>849</u>	<u>37.8</u>	849	37.8									
447.dealII	4	<u>1000</u>	<u>45.8</u>	972	47.1	1010	45.3									
450.soplex	4	<u>1572</u>	<u>21.2</u>	1573	21.2	1571	21.2									
453.povray	4	405	52.5	<u>405</u>	<u>52.5</u>	405	52.5									
454.calculix	4	<u>975</u>	<u>33.8</u>	973	33.9	976	33.8									
459.GemsFDTD	4	2486	17.1	<u>2481</u>	<u>17.1</u>	2463	17.2									
465.tonto	4	<u>1422</u>	<u>27.7</u>	1422	27.7	1423	27.7									
470.lbm	4	3436	16.0	<u>3435</u>	<u>16.0</u>	3435	16.0									
481.wrf	4	<u>1405</u>	<u>31.8</u>	1402	31.9	1431	31.2									
482.sphinx3	4	<u>2380</u>	<u>32.8</u>	2381	32.7	2380	32.8									

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

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).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 10:34:58 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 6 March 2007.