



# SPEC® CFP2006 Result

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## IBM Corporation

### SPECfp®2006 = Not Run

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

### SPECfp\_base2006 = 9.65

CPU2006 license: 11

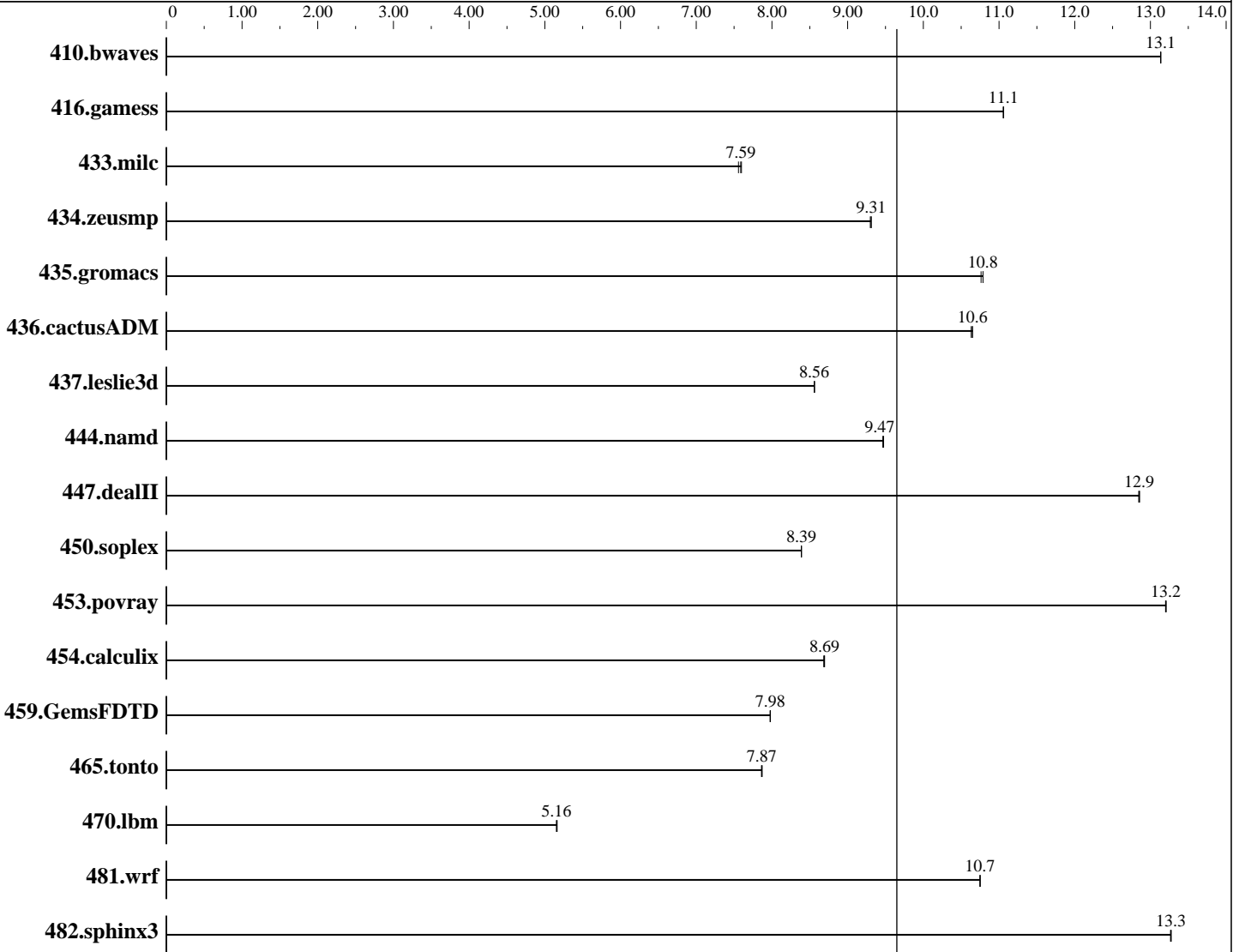
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



SPECfp\_base2006 = 9.65

#### 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	1035	13.1	<b><u>1035</u></b>	<b><u>13.1</u></b>	1035	13.1						
416.gamess	1770	11.1	1771	11.1	<b><u>1771</u></b>	<b><u>11.1</u></b>						
433.milc	1208	7.60	1215	7.56	<b><u>1210</u></b>	<b><u>7.59</u></b>						
434.zeusmp	977	9.31	<b><u>977</u></b>	<b><u>9.31</u></b>	979	9.30						
435.gromacs	662	10.8	<b><u>662</u></b>	<b><u>10.8</u></b>	663	10.8						
436.cactusADM	<b><u>1122</u></b>	<b><u>10.6</u></b>	1122	10.6	1124	10.6						
437.leslie3d	<b><u>1098</u></b>	<b><u>8.56</u></b>	1098	8.56	1098	8.56						
444.namd	846	9.48	847	9.47	<b><u>847</u></b>	<b><u>9.47</u></b>						
447.dealII	891	12.8	890	12.9	<b><u>890</u></b>	<b><u>12.9</u></b>						
450.soplex	994	8.39	<b><u>994</u></b>	<b><u>8.39</u></b>	994	8.39						
453.povray	<b><u>403</u></b>	<b><u>13.2</u></b>	403	13.2	403	13.2						
454.calculix	949	8.69	950	8.68	<b><u>949</u></b>	<b><u>8.69</u></b>						
459.GemsFDTD	1330	7.98	<b><u>1330</u></b>	<b><u>7.98</u></b>	1330	7.98						
465.tonto	1250	7.87	1252	7.86	<b><u>1251</u></b>	<b><u>7.87</u></b>						
470.lbm	<b><u>2665</u></b>	<b><u>5.16</u></b>	2661	5.16	2665	5.16						
481.wrf	1039	10.8	1039	10.7	<b><u>1039</u></b>	<b><u>10.7</u></b>						
482.sphinx3	<b><u>1469</u></b>	<b><u>13.3</u></b>	1469	13.3	1468	13.3						

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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