



# SPEC<sup>®</sup> CFP2006 Result

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## IBM Corporation

SPECfp<sup>®</sup>2006 = **Not Run**

IBM BladeCenter HS21 XM (Intel Xeon E5320)

SPECfp\_base2006 = **9.57**

CPU2006 license: 11

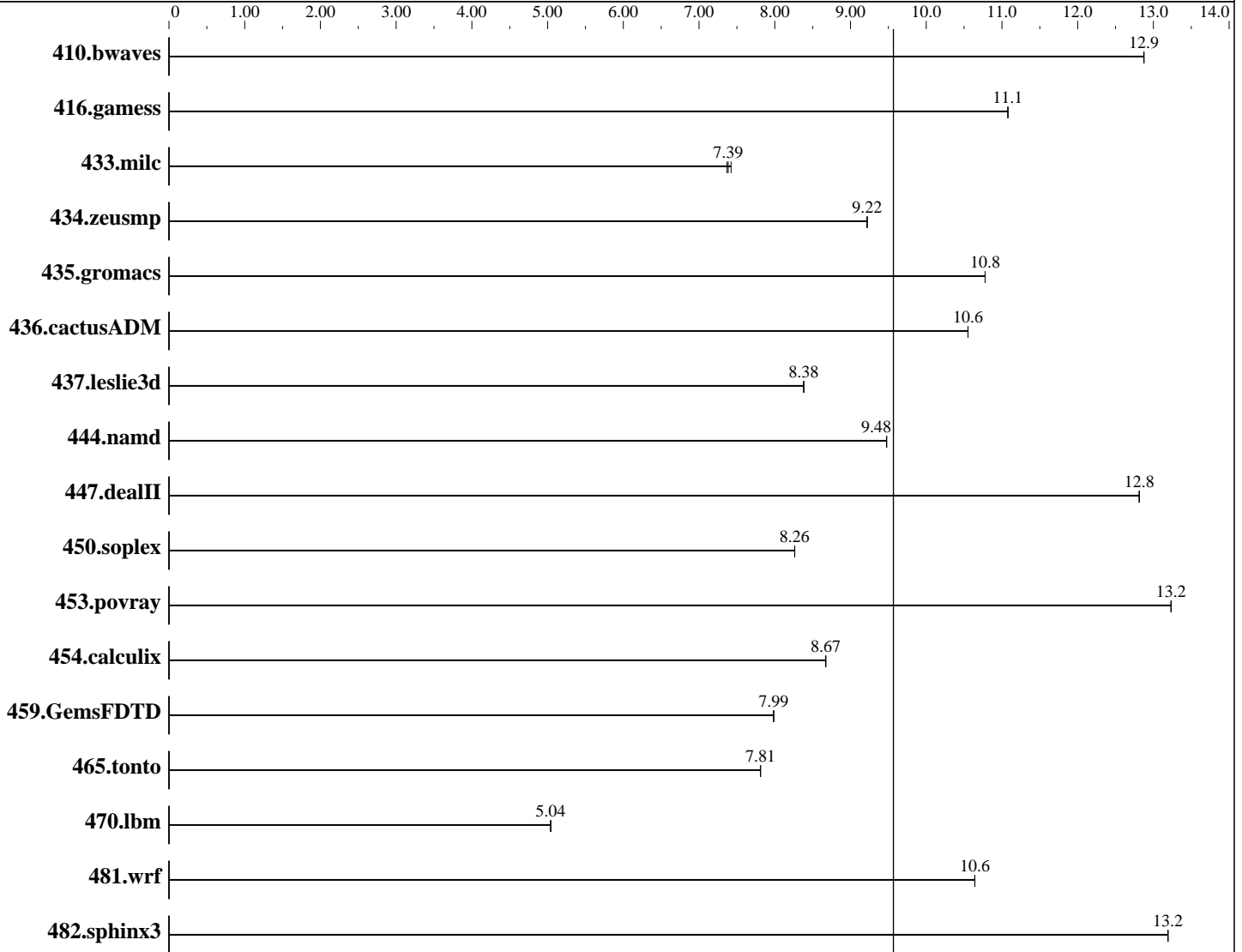
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



SPECfp\_base2006 = 9.57

### Hardware

CPU Name: Intel Xeon E5320  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 1866  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 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: 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	1056	12.9	<b><u>1056</u></b>	<b><u>12.9</u></b>	1056	12.9						
416.gamess	1767	11.1	<b><u>1767</u></b>	<b><u>11.1</u></b>	1767	11.1						
433.milc	1237	7.42	<b><u>1243</u></b>	<b><u>7.39</u></b>	1246	7.37						
434.zeusmp	<b><u>987</u></b>	<b><u>9.22</u></b>	987	9.22	987	9.22						
435.gromacs	<b><u>662</u></b>	<b><u>10.8</u></b>	662	10.8	663	10.8						
436.cactusADM	1133	10.6	1133	10.6	<b><u>1133</u></b>	<b><u>10.6</u></b>						
437.leslie3d	1121	8.38	<b><u>1121</u></b>	<b><u>8.38</u></b>	1121	8.38						
444.namd	846	9.48	846	9.48	<b><u>846</u></b>	<b><u>9.48</u></b>						
447.dealII	893	12.8	893	12.8	<b><u>893</u></b>	<b><u>12.8</u></b>						
450.soplex	1009	8.26	<b><u>1009</u></b>	<b><u>8.26</u></b>	1009	8.26						
453.povray	402	13.2	<b><u>402</u></b>	<b><u>13.2</u></b>	402	13.2						
454.calculix	951	8.67	951	8.67	<b><u>951</u></b>	<b><u>8.67</u></b>						
459.GemsFDTD	<b><u>1329</u></b>	<b><u>7.99</u></b>	1329	7.99	1329	7.99						
465.tonto	1260	7.81	<b><u>1260</u></b>	<b><u>7.81</u></b>	1259	7.81						
470.lbm	<b><u>2726</u></b>	<b><u>5.04</u></b>	2726	5.04	2726	5.04						
481.wrf	1050	10.6	1050	10.6	<b><u>1050</u></b>	<b><u>10.6</u></b>						
482.sphinx3	1477	13.2	1477	13.2	<b><u>1477</u></b>	<b><u>13.2</u></b>						

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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