



# SPEC<sup>®</sup> CFP2006 Result

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## IBM Corporation

SPECfp<sup>®</sup>2006 = **Not Run**

IBM BladeCenter HS21 XM (Intel Xeon E5335)

SPECfp\_base2006 = **10.9**

CPU2006 license: 11

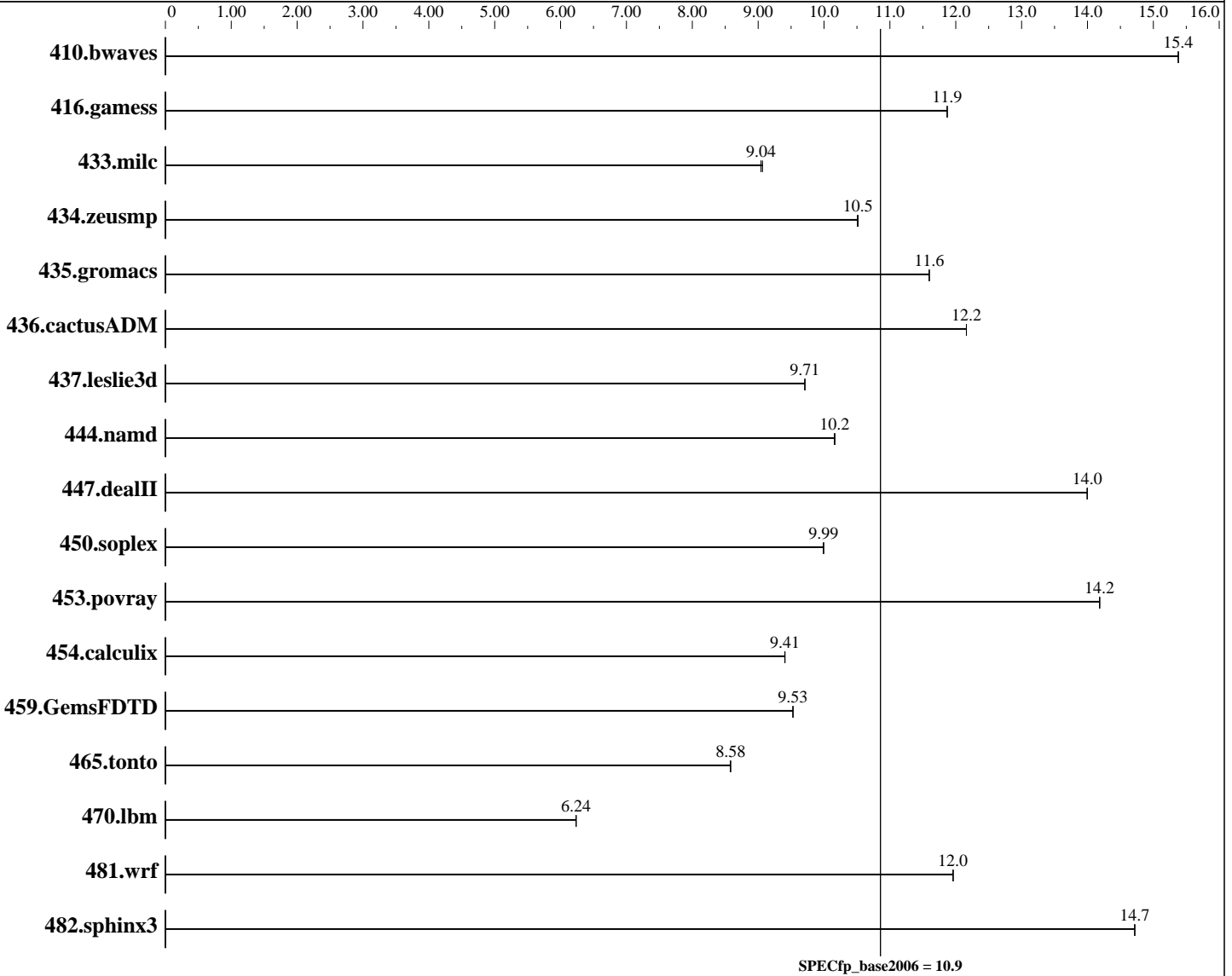
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Xeon E5335  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2000  
 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	<b>884</b>	<b>15.4</b>	884	15.4	884	15.4						
416.gamess	<b>1650</b>	<b>11.9</b>	1650	11.9	1649	11.9						
433.milc	1013	9.07	<b>1015</b>	<b>9.04</b>	1015	9.04						
434.zeusmp	866	10.5	<b>865</b>	<b>10.5</b>	865	10.5						
435.gromacs	<b>616</b>	<b>11.6</b>	616	11.6	616	11.6						
436.cactusADM	983	12.2	983	12.2	<b>983</b>	<b>12.2</b>						
437.leslie3d	968	9.71	<b>968</b>	<b>9.71</b>	968	9.71						
444.namd	<b>789</b>	<b>10.2</b>	790	10.2	789	10.2						
447.dealII	817	14.0	817	14.0	<b>817</b>	<b>14.0</b>						
450.soplex	835	9.99	<b>835</b>	<b>9.99</b>	835	9.99						
453.povray	<b>375</b>	<b>14.2</b>	375	14.2	375	14.2						
454.calculix	<b>877</b>	<b>9.41</b>	877	9.41	877	9.41						
459.GemsFDTD	1113	9.53	<b>1113</b>	<b>9.53</b>	1114	9.53						
465.tonto	1147	8.58	<b>1147</b>	<b>8.58</b>	1147	8.58						
470.lbm	2203	6.24	<b>2203</b>	<b>6.24</b>	2204	6.24						
481.wrf	934	12.0	934	12.0	<b>934</b>	<b>12.0</b>						
482.sphinx3	1324	14.7	<b>1324</b>	<b>14.7</b>	1324	14.7						

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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