



# SPEC® CFP2006 Result

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## IBM Corporation

## SPECfp®2006 = Not Run

## IBM System x3500 (Intel Xeon E5335)

## SPECfp\_base2006 = 10.8

CPU2006 license: 11

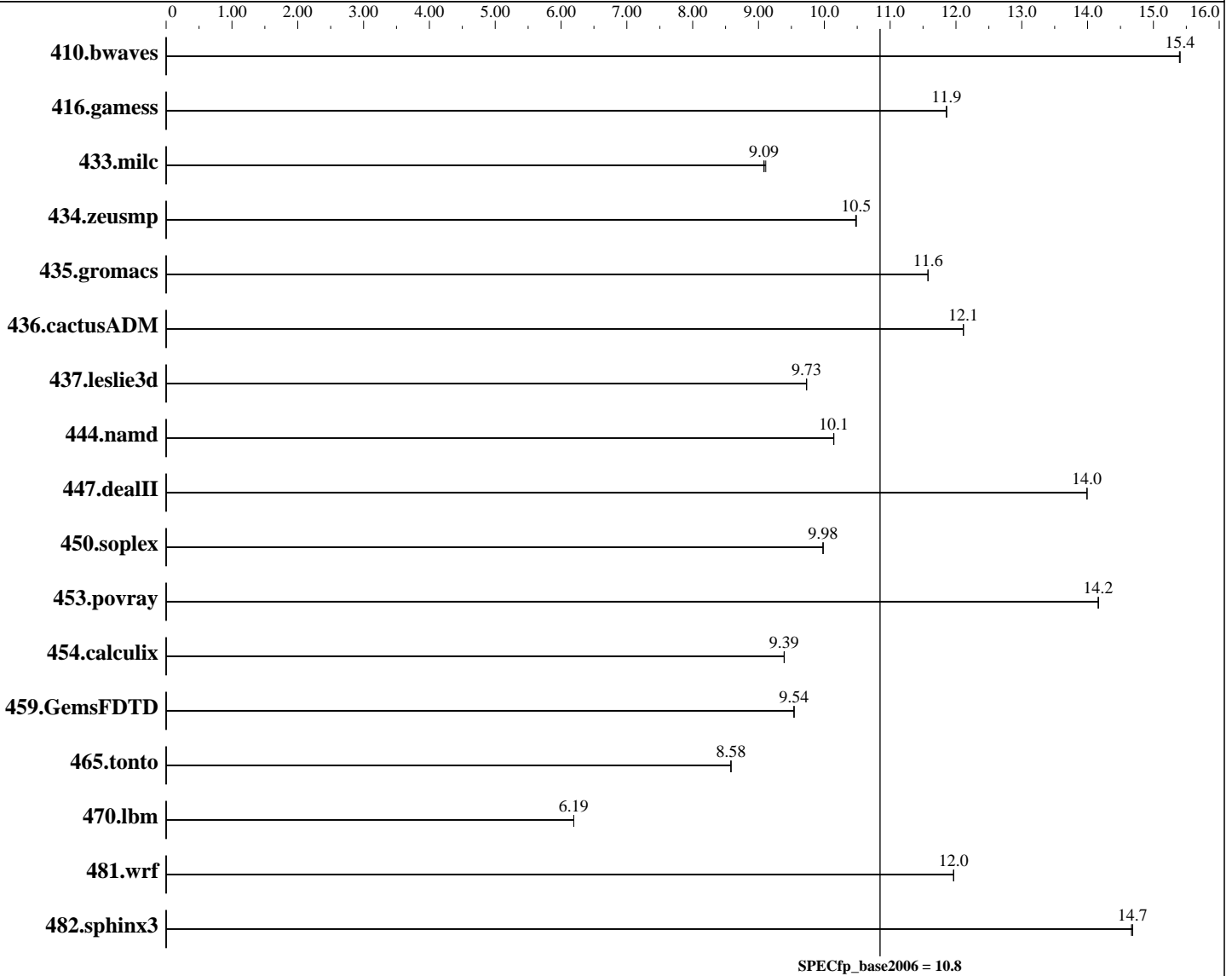
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Xeon E5335  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1 chip  
 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: 8 GB (8 x 1GB DDR2-5300F ECC)  
Disk Subsystem: 1 x 80 GB SATA, 7200 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	883	15.4	<b>882</b>	<b>15.4</b>	882	15.4						
416.gamess	1651	11.9	<b>1651</b>	<b>11.9</b>	1651	11.9						
433.milc	1011	9.08	1008	9.11	<b>1010</b>	<b>9.09</b>						
434.zeusmp	<b>868</b>	<b>10.5</b>	869	10.5	868	10.5						
435.gromacs	617	11.6	<b>617</b>	<b>11.6</b>	617	11.6						
436.cactusADM	987	12.1	<b>987</b>	<b>12.1</b>	987	12.1						
437.leslie3d	966	9.73	<b>966</b>	<b>9.73</b>	966	9.73						
444.namd	<b>791</b>	<b>10.1</b>	791	10.1	791	10.1						
447.dealII	<b>818</b>	<b>14.0</b>	818	14.0	818	14.0						
450.soplex	836	9.98	836	9.98	<b>836</b>	<b>9.98</b>						
453.povray	376	14.2	376	14.2	<b>376</b>	<b>14.2</b>						
454.calculix	<b>879</b>	<b>9.39</b>	879	9.39	879	9.39						
459.GemsFDTD	1112	9.54	1112	9.54	<b>1112</b>	<b>9.54</b>						
465.tonto	1146	8.58	<b>1147</b>	<b>8.58</b>	1147	8.58						
470.lbm	<b>2218</b>	<b>6.19</b>	2218	6.19	2218	6.19						
481.wrf	933	12.0	<b>934</b>	<b>12.0</b>	934	12.0						
482.sphinx3	1329	14.7	<b>1328</b>	<b>14.7</b>	1327	14.7						

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## General Notes

This result was measured on an IBM System X 3400. IBM System X 3400 and IBM System X 3500 are electronically equivalent.

## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99

C++ benchmarks:  
icl -Qvc7.1

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## Base Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort

## 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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