



# SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## IBM Corporation

## SPECfp®2006 = Not Run

## IBM System x3200 (Intel Xeon X3220)

## SPECfp\_base2006 = 13.6

CPU2006 license: 11

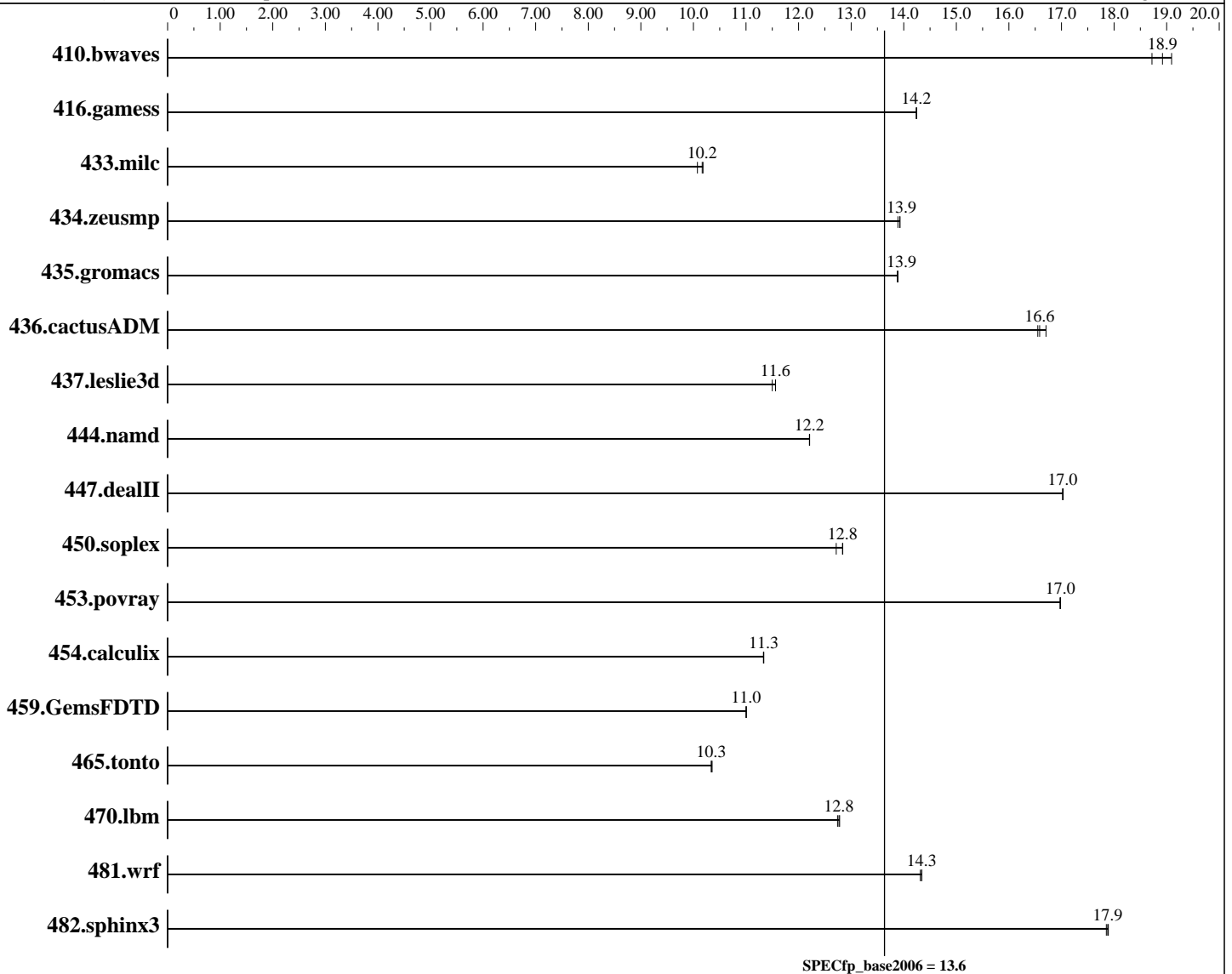
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Xeon X3220  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 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

Continued on next page

### 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

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

SPECfp2006 = Not Run

IBM System x3200 (Intel Xeon X3220)

SPECfp\_base2006 = 13.6

CPU2006 license: 11

Test date: Jan-2007

Test sponsor: IBM Corporation

Hardware Availability: Feb-2007

Tested by: IBM Corporation

Software Availability: Aug-2006

L3 Cache: None  
Other Cache: None  
Memory: 8 GB (4 x 2GB PC2-5300 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	726	18.7	712	19.1	<b><u>718</u></b>	<b><u>18.9</u></b>						
416.gamess	1374	14.2	<b><u>1375</u></b>	<b><u>14.2</u></b>	1375	14.2						
433.milc	911	10.1	902	10.2	<b><u>903</u></b>	<b><u>10.2</u></b>						
434.zeusmp	655	13.9	<b><u>653</u></b>	<b><u>13.9</u></b>	653	13.9						
435.gromacs	515	13.9	<b><u>514</u></b>	<b><u>13.9</u></b>	514	13.9						
436.cactusADM	722	16.5	715	16.7	<b><u>721</u></b>	<b><u>16.6</u></b>						
437.leslie3d	817	11.5	<b><u>813</u></b>	<b><u>11.6</u></b>	813	11.6						
444.namd	657	12.2	657	12.2	<b><u>657</u></b>	<b><u>12.2</u></b>						
447.dealII	672	17.0	672	17.0	<b><u>672</u></b>	<b><u>17.0</u></b>						
450.soplex	656	12.7	<b><u>650</u></b>	<b><u>12.8</u></b>	650	12.8						
453.povray	313	17.0	313	17.0	<b><u>313</u></b>	<b><u>17.0</u></b>						
454.calculix	728	11.3	728	11.3	<b><u>728</u></b>	<b><u>11.3</u></b>						
459.GemsFDTD	964	11.0	<b><u>964</u></b>	<b><u>11.0</u></b>	964	11.0						
465.tonto	952	10.3	<b><u>951</u></b>	<b><u>10.3</u></b>	950	10.4						
470.lbm	1078	12.7	<b><u>1076</u></b>	<b><u>12.8</u></b>	1075	12.8						
481.wrf	780	14.3	779	14.3	<b><u>779</u></b>	<b><u>14.3</u></b>						
482.sphinx3	1092	17.9	<b><u>1090</u></b>	<b><u>17.9</u></b>	1089	17.9						

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



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

SPECfp2006 = Not Run

IBM System x3200 (Intel Xeon X3220)

SPECfp\_base2006 = 13.6

CPU2006 license: 11

Test date: Jan-2007

Test sponsor: IBM Corporation

Hardware Availability: Feb-2007

Tested by: IBM Corporation

Software Availability: Aug-2006

## 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>

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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 10:20:22 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 6 February 2007.