SPEC® CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

IBM System x3250 (Intel Xeon X3210)

$SPECfp^{®}2006 =$ Not Run
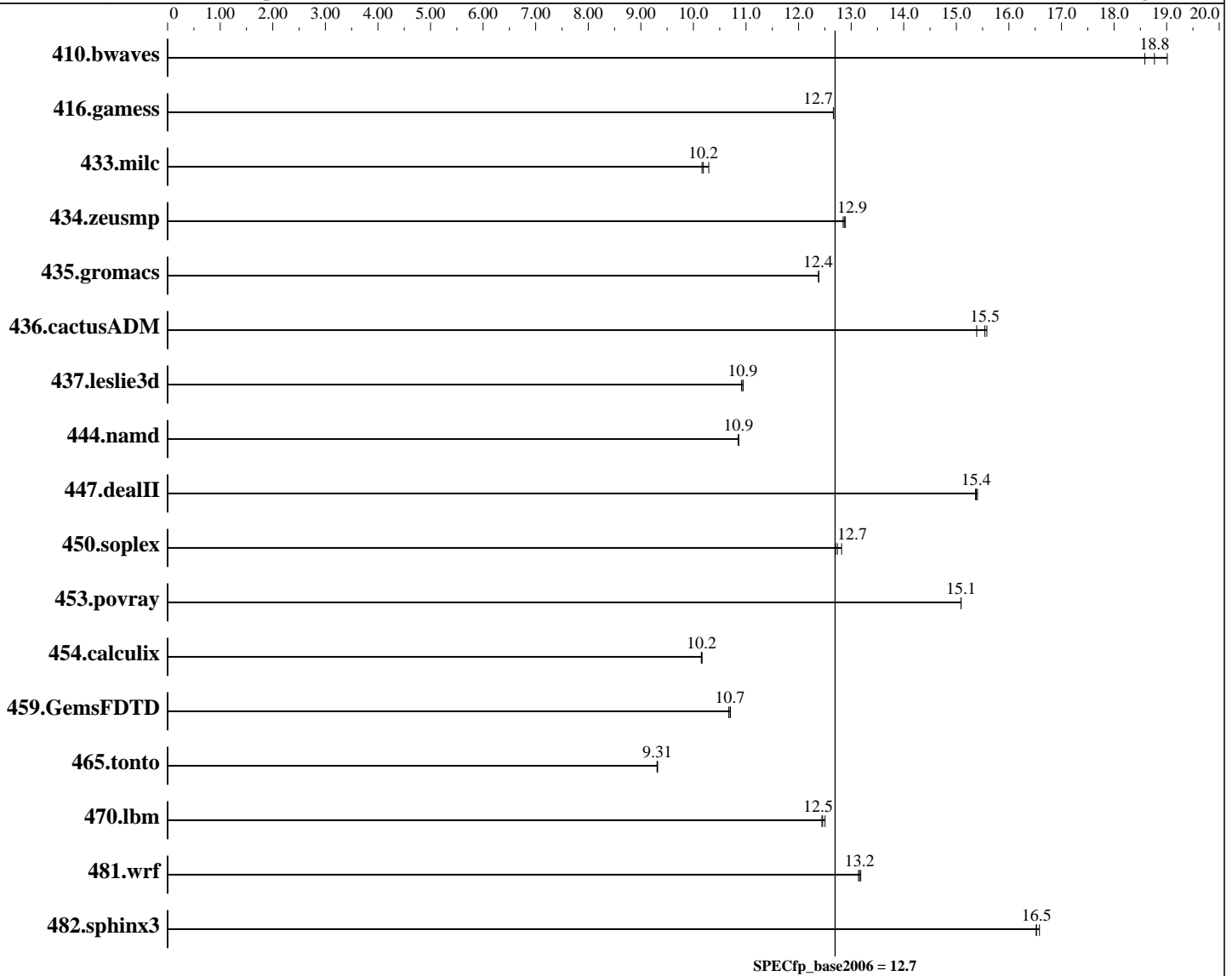
$SPECfp\_base2006 =$ 12.7

CPU2006 license: 11
Test sponsor: IBM Corporation
Tested by: IBM Corporation

Test date: Jan-2007
Hardware Availability: Feb-2007
Software Availability: Aug-2006

Benchmark	Result
410.bwaves	18.8
416.gamess	12.7
433.milc	10.2
434.zeusmp	12.9
435.gromacs	12.4
436.cactusADM	15.5
437.leslie3d	10.9
444.namd	10.9
447.dealII	15.4
450.soplex	12.7
453.povray	15.1
454.calculix	10.2
459.GemsFDTD	10.7
465.tonto	9.31
470.lbm	12.5
481.wrf	13.2
482.sphinx3	16.5

SPECfp_base2006 = 12.7

Hardware

CPU Name:	Intel Xeon X3210
CPU Characteristics:	1066MHz system bus
CPU MHz:	2133
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

IBM System x3250 (Intel Xeon X3210)

SPECfp2006 =	Not Run
SPECfp_base2006 =	12.7

CPU2006 license: 11
Test sponsor: IBM Corporation
Tested by: IBM Corporation

Test date: Jan-2007
Hardware Availability: Feb-2007
Software Availability: Aug-2006

L3 Cache:	None
Other Cache:	None
Memory:	8 GB (4 x 2GB PC2-5300 ECC)
Disk Subsystem:	1 x 73 GB SAS, 10000 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 Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio
410.bwaves	715	19.0	**724**	**18.8**	731	18.6						
416.gamess	1547	12.7	1546	12.7	**1546**	**12.7**						
433.milc	892	10.3	**901**	**10.2**	903	10.2						
434.zeusmp	706	12.9	708	12.8	**707**	**12.9**						
435.gromacs	577	12.4	**577**	**12.4**	577	12.4						
436.cactusADM	767	15.6	777	15.4	**769**	**15.5**						
437.leslie3d	859	10.9	**859**	**10.9**	861	10.9						
444.namd	739	10.9	**739**	**10.9**	739	10.9						
447.dealII	743	15.4	**744**	**15.4**	745	15.4						
450.soplex	651	12.8	657	12.7	**655**	**12.7**						
453.povray	353	15.1	353	15.1	**353**	**15.1**						
454.calculix	812	10.2	**812**	**10.2**	813	10.1						
459.GemsFDTD	991	10.7	**992**	**10.7**	994	10.7						
465.tonto	1056	9.32	1057	9.31	**1057**	**9.31**						
470.lbm	**1103**	**12.5**	1099	12.5	1104	12.4						
481.wrf	847	13.2	**849**	**13.2**	850	13.1						
482.sphinx3	1175	16.6	**1179**	**16.5**	1180	16.5						

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

IBM System x3250 (Intel Xeon X3210)

SPECfp2006 =	Not Run
SPECfp_base2006 =	12.7

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.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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:17:11 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 6 February 2007.