



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

SPECfp®_rate2006 = Not Run

IBM System x3200 (Intel Xeon X3210)

SPECfp_rate_base2006 = 31.6

CPU2006 license: 11

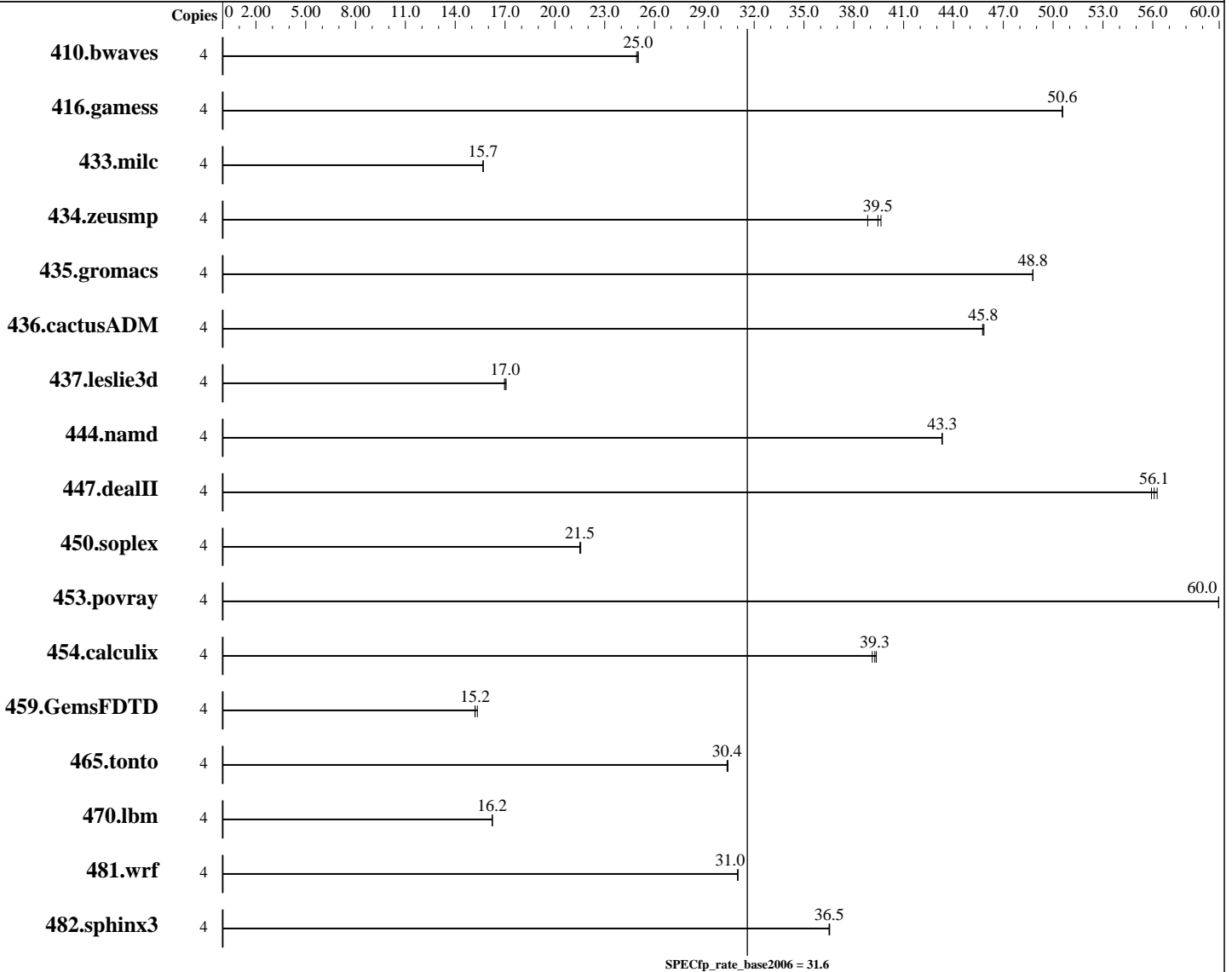
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



Hardware

CPU Name: Intel Xeon 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

SPECfp_rate2006 = Not Run

IBM System x3200 (Intel Xeon X3210)

SPECfp_rate_base2006 = 31.6

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 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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	4	2173	25.0	2181	24.9	<u>2174</u>	<u>25.0</u>									
416.gamess	4	1549	50.6	<u>1549</u>	<u>50.6</u>	1549	50.6									
433.milc	4	2343	15.7	<u>2341</u>	<u>15.7</u>	2341	15.7									
434.zeusmp	4	<u>923</u>	<u>39.5</u>	918	39.6	937	38.8									
435.gromacs	4	585	48.8	586	48.8	<u>586</u>	<u>48.8</u>									
436.cactusADM	4	1043	45.8	<u>1044</u>	<u>45.8</u>	1045	45.8									
437.leslie3d	4	2216	17.0	2203	17.1	<u>2210</u>	<u>17.0</u>									
444.namd	4	741	43.3	740	43.3	<u>741</u>	<u>43.3</u>									
447.dealII	4	818	55.9	<u>816</u>	<u>56.1</u>	813	56.3									
450.soplex	4	<u>1551</u>	<u>21.5</u>	1551	21.5	1547	21.6									
453.povray	4	355	60.0	355	60.0	<u>355</u>	<u>60.0</u>									
454.calculix	4	839	39.4	<u>840</u>	<u>39.3</u>	844	39.1									
459.GemsFDTD	4	2767	15.3	2794	15.2	<u>2792</u>	<u>15.2</u>									
465.tonto	4	1296	30.4	1294	30.4	<u>1296</u>	<u>30.4</u>									
470.lbm	4	3384	16.2	<u>3387</u>	<u>16.2</u>	3388	16.2									
481.wrf	4	1440	31.0	1441	31.0	<u>1441</u>	<u>31.0</u>									
482.sphinx3	4	<u>2135</u>	<u>36.5</u>	2135	36.5	2133	36.5									

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

SPECfp_rate2006 = Not Run

IBM System x3200 (Intel Xeon X3210)

SPECfp_rate_base2006 = 31.6

CPU2006 license: 11

Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

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.

Tested with SPEC CPU2006 v1.0.
 Report generated on Tue Jul 22 10:17:35 2014 by SPEC CPU2006 PS/PDF formatter v6932.
 Originally published on 6 February 2007.