SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

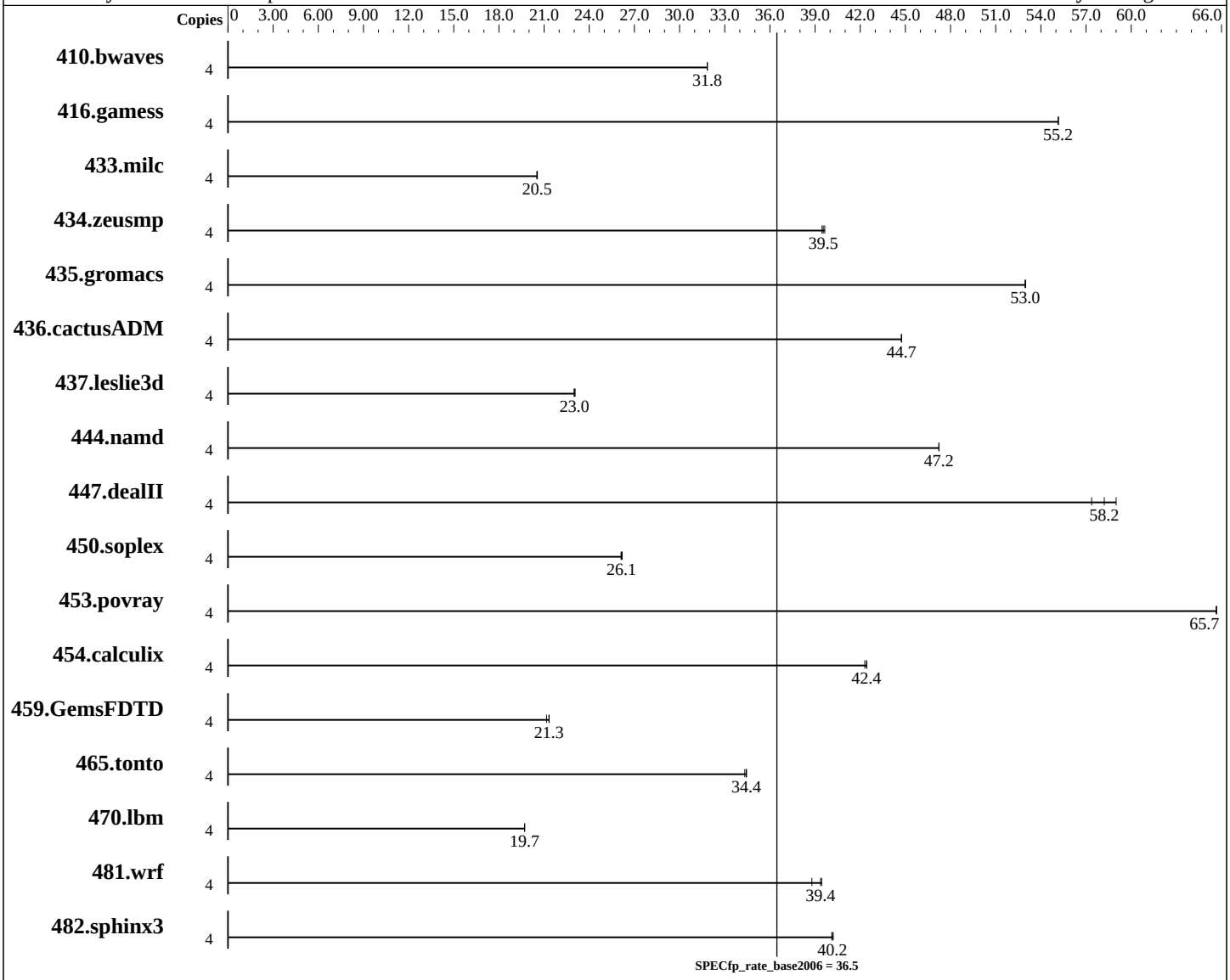
IBM BladeCenter HS21 XM (Intel Xeon 5140)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 36.5

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 5140
CPU Characteristics:	1333MHz system bus
CPU MHz:	2333
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip

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 BladeCenter HS21 XM (Intel Xeon 5140)

SPECfp_rate2006 = Not Run

SPECfp_rate_base2006 = 36.5

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	System State:	Default
Other Cache:	None	Base Pointers:	32-bit
Memory:	16 GB (8 x 2GB DDR2-5300F ECC)	Peak Pointers:	Not Applicable
Disk Subsystem:	1 x 74 GB SAS, 1000 RPM	Other Software:	Smart Heap Library, Version 8
Other Hardware:	None		

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1707	31.8	**1707**	**31.8**	1708	31.8							
416.gamess	4	1420	55.2	**1420**	**55.2**	1420	55.2							
433.milc	4	1787	20.6	**1788**	**20.5**	1790	20.5							
434.zeusmp	4	918	39.6	**920**	**39.5**	922	39.5							
435.gromacs	4	**539**	**53.0**	539	53.0	539	53.0							
436.cactusADM	4	**1068**	**44.7**	1068	44.7	1068	44.7							
437.leslie3d	4	**1633**	**23.0**	1630	23.1	1635	23.0							
444.namd	4	679	47.2	679	47.2	**679**	**47.2**							
447.dealII	4	**786**	**58.2**	776	59.0	798	57.4							
450.soplex	4	**1276**	**26.1**	1278	26.1	1274	26.2							
453.povray	4	324	65.7	**324**	**65.7**	324	65.7							
454.calculix	4	780	42.3	778	42.4	**778**	**42.4**							
459.GemsFDTD	4	2005	21.2	1989	21.3	**1991**	**21.3**							
465.tonto	4	1143	34.4	**1143**	**34.4**	1146	34.3							
470.lbm	4	**2789**	**19.7**	2789	19.7	2789	19.7							
481.wrf	4	**1135**	**39.4**	1152	38.8	1133	39.4							
482.sphinx3	4	1944	40.1	**1942**	**40.2**	1939	40.2							

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
```

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

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 10:39:56 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 6 March 2007.