SPEC® CFP2006 Result

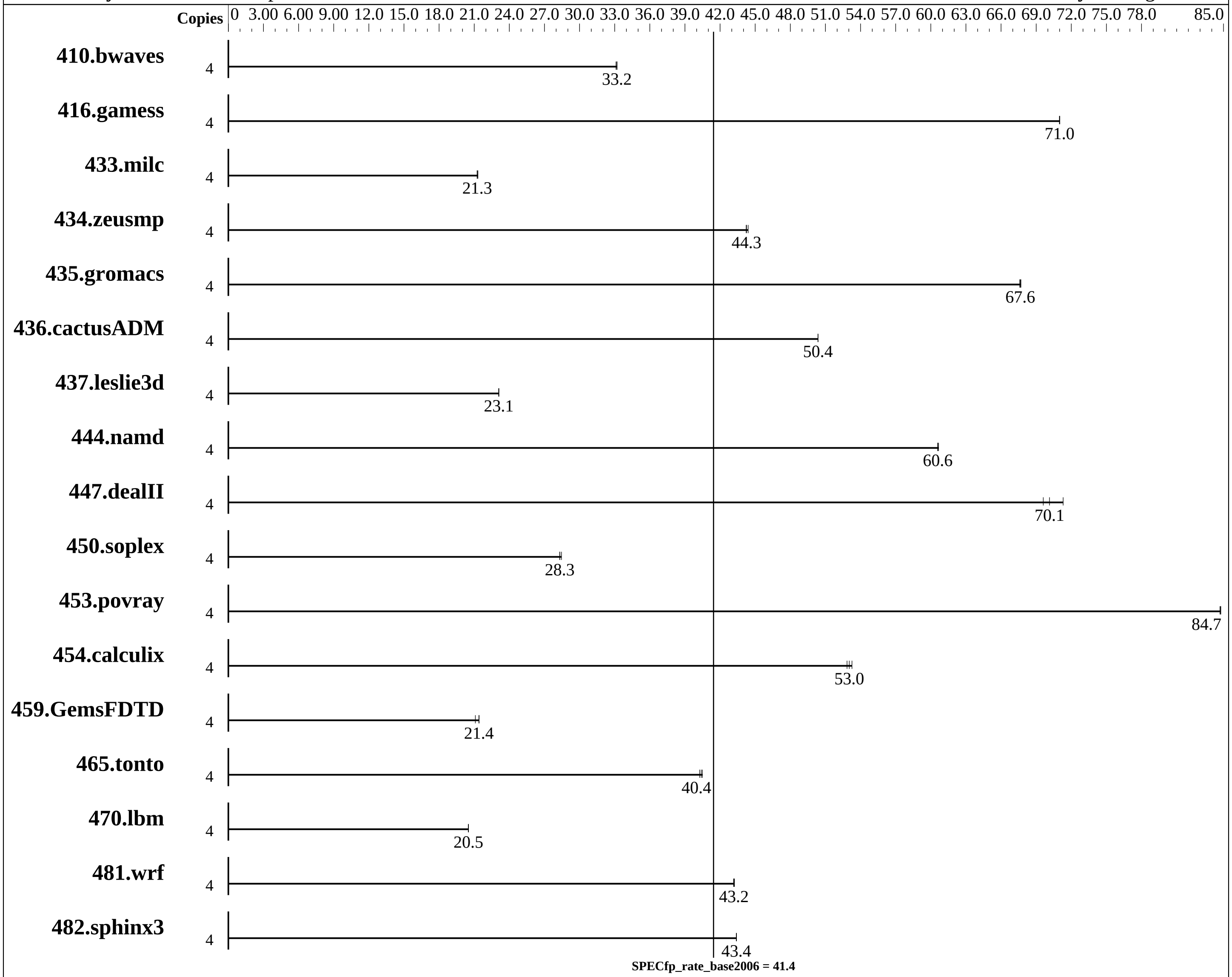
IBM Corporation

SPECfp®_rate2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon 5160)

SPECfp_rate_base2006 = 41.4

CPU2006 license:	11	**Test date:**	Jan-2007
Test sponsor:	IBM Corporation	**Hardware Availability:**	Feb-2007
Tested by:	IBM Corporation	**Software Availability:**	Aug-2006



Hardware

CPU Name:	Intel Xeon 5160
CPU Characteristics:	1333MHz system bus
CPU MHz:	3000
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

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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: 16 GB (8 x 2GB DDR2-5300F ECC)
Disk Subsystem: 1 x 74 GB SAS, 1000 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	**1638**	**33.2**	1637	33.2	1642	33.1							
416.gamess	4	1103	71.0	1103	71.0	**1103**	**71.0**							
433.milc	4	1728	21.2	**1727**	**21.3**	1723	21.3							
434.zeusmp	4	**822**	**44.3**	820	44.4	823	44.2							
435.gromacs	4	422	67.7	**422**	**67.6**	423	67.6							
436.cactusADM	4	**949**	**50.4**	949	50.4	949	50.4							
437.leslie3d	4	1627	23.1	**1628**	**23.1**	1629	23.1							
444.namd	4	529	60.7	**529**	**60.6**	530	60.6							
447.dealII	4	**652**	**70.1**	642	71.3	657	69.6							
450.soplex	4	1178	28.3	**1178**	**28.3**	1172	28.5							
453.povray	4	251	84.8	**251**	**84.7**	251	84.7							
454.calculix	4	620	53.3	**622**	**53.0**	624	52.8							
459.GemsFDTD	4	**1983**	**21.4**	2011	21.1	1982	21.4							
465.tonto	4	978	40.3	**974**	**40.4**	972	40.5							
470.lbm	4	2680	20.5	**2680**	**20.5**	2680	20.5							
481.wrf	4	1035	43.2	**1035**	**43.2**	1034	43.2							
482.sphinx3	4	1796	43.4	**1797**	**43.4**	1797	43.4							

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

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 10:35:19 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 6 March 2007.