SPEC® CFP2006 Result

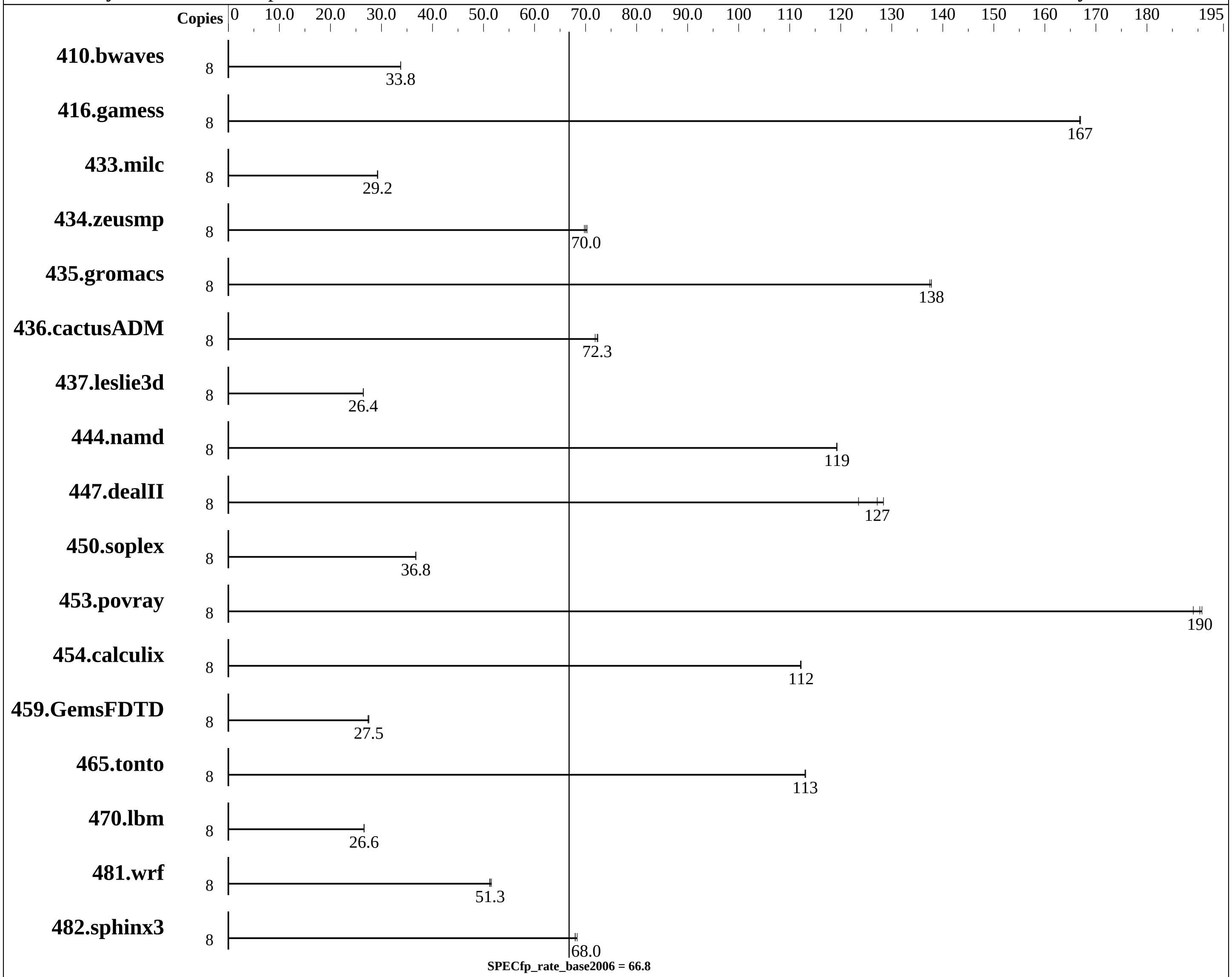
IBM Corporation

IBM BladeCenter HS21 XM (Intel Xeon E5440)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 66.8

CPU2006 license: 11		**Test date:**	Dec-2007
Test sponsor:	IBM Corporation	**Hardware Availability:**	Jan-2008
Tested by:	IBM Corporation	**Software Availability:**	Nov-2007



Hardware

CPU Name:	Intel Xeon E5440
CPU Characteristics:	1333MHz system bus
CPU MHz:	2833
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores

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Software

Operating System:	SuSE Linux Enterprise Server 10 (x86_64), Kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ and Fortran Compiler 10.1 for Linux Build 20070913 Package ID: l_cc_p_10.1.008, l_fc_p_10.1.008
Auto Parallel:	No
File System:	ReiserFS
System State:	Multi-user, run level 3
Base Pointers:	64-bit

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L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8 x 2 GB DDR2-5300F ECC)
Disk Subsystem:	1 x 36 GB SAS, 10000 RPM
Other Hardware:	None
Peak Pointers:	Not Applicable
Other Software:	Binutils 2.17.50.0.15

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3221	33.8	3220	33.8	**3220**	**33.8**							
416.gamess	8	**939**	**167**	939	167	938	167							
433.milc	8	2514	29.2	2507	29.3	**2513**	**29.2**							
434.zeusmp	8	**1040**	**70.0**	1044	69.8	1036	70.3							
435.gromacs	8	416	137	415	138	**415**	**138**							
436.cactusADM	8	**1323**	**72.3**	1330	71.9	1320	72.4							
437.leslie3d	8	2845	26.4	2842	26.5	**2844**	**26.4**							
444.namd	8	538	119	**538**	**119**	538	119							
447.dealII	8	741	123	713	128	**720**	**127**							
450.soplex	8	1818	36.7	1815	36.8	**1815**	**36.8**							
453.povray	8	**224**	**190**	225	189	223	191							
454.calculix	8	**588**	**112**	588	112	589	112							
459.GemsFDTD	8	3104	27.3	**3086**	**27.5**	3083	27.5							
465.tonto	8	696	113	**696**	**113**	697	113							
470.lbm	8	**4131**	**26.6**	4138	26.6	4131	26.6							
481.wrf	8	**1742**	**51.3**	1744	51.2	1733	51.6							
482.sphinx3	8	2294	68.0	2281	68.3	**2293**	**68.0**							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
All benchmarks compiled in 64-bit mode
Hardware Sector Prefetch Disabled and Adjacent Sector Prefetch Disabled
taskset utility used to bind CPU(s) to processes
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.11.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.11.xml

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

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