SPEC® CFP2006 Result

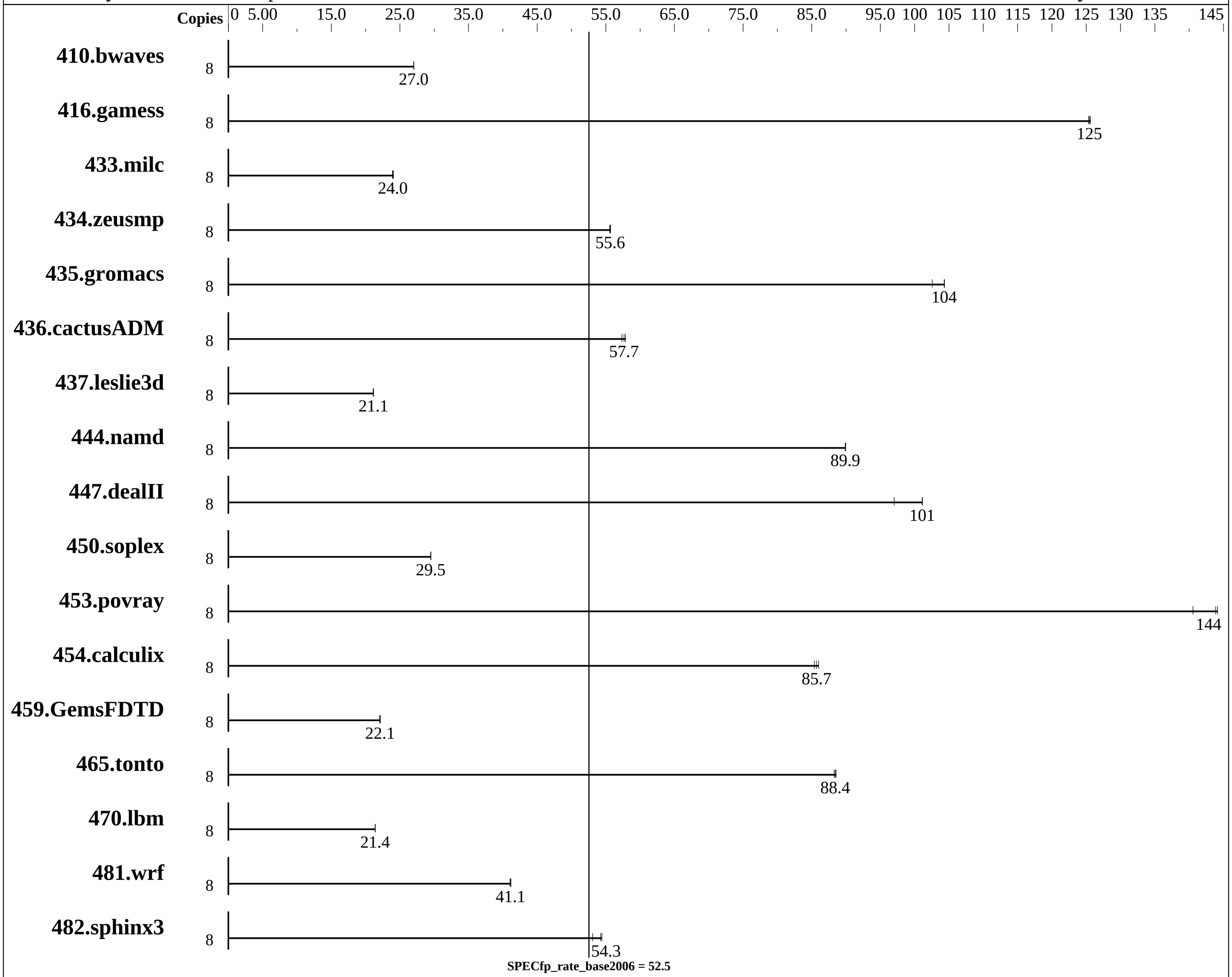
IBM Corporation

SPECfp®_rate2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon L5408)

SPECfp_rate_base2006 = 52.5

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



Hardware

CPU Name:	Intel Xeon L5408
CPU Characteristics:	1066MHz system bus
CPU MHz:	2133
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	4024	27.0	**4024**	**27.0**	4026	27.0							
416.gamess	8	1247	126	1250	125	**1248**	**125**							
433.milc	8	3070	23.9	3052	24.1	**3064**	**24.0**							
434.zeusmp	8	**1308**	**55.6**	1307	55.7	1310	55.6							
435.gromacs	8	557	103	**548**	**104**	547	104							
436.cactusADM	8	1652	57.9	**1658**	**57.7**	1667	57.3							
437.leslie3d	8	**3558**	**21.1**	3562	21.1	3553	21.2							
444.namd	8	713	90.0	714	89.9	**714**	**89.9**							
447.dealII	8	905	101	943	97.0	**905**	**101**							
450.soplex	8	**2262**	**29.5**	2263	29.5	2260	29.5							
453.povray	8	295	144	**296**	**144**	303	141							
454.calculix	8	**770**	**85.7**	767	86.0	773	85.4							
459.GemsFDTD	8	**3840**	**22.1**	3834	22.1	3849	22.1							
465.tonto	8	**890**	**88.4**	889	88.5	892	88.3							
470.lbm	8	5140	21.4	5138	21.4	**5138**	**21.4**							
481.wrf	8	2177	41.0	2170	41.2	**2174**	**41.1**							
482.sphinx3	8	2937	53.1	**2874**	**54.3**	2865	54.4							

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`

Continued on next page

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-linux64-revC.20090713.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-fp-linux64-revC.20090713.xml

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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 17:41:37 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 25 June 2008.