SPEC® CFP2006 Result

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IBM Corporation

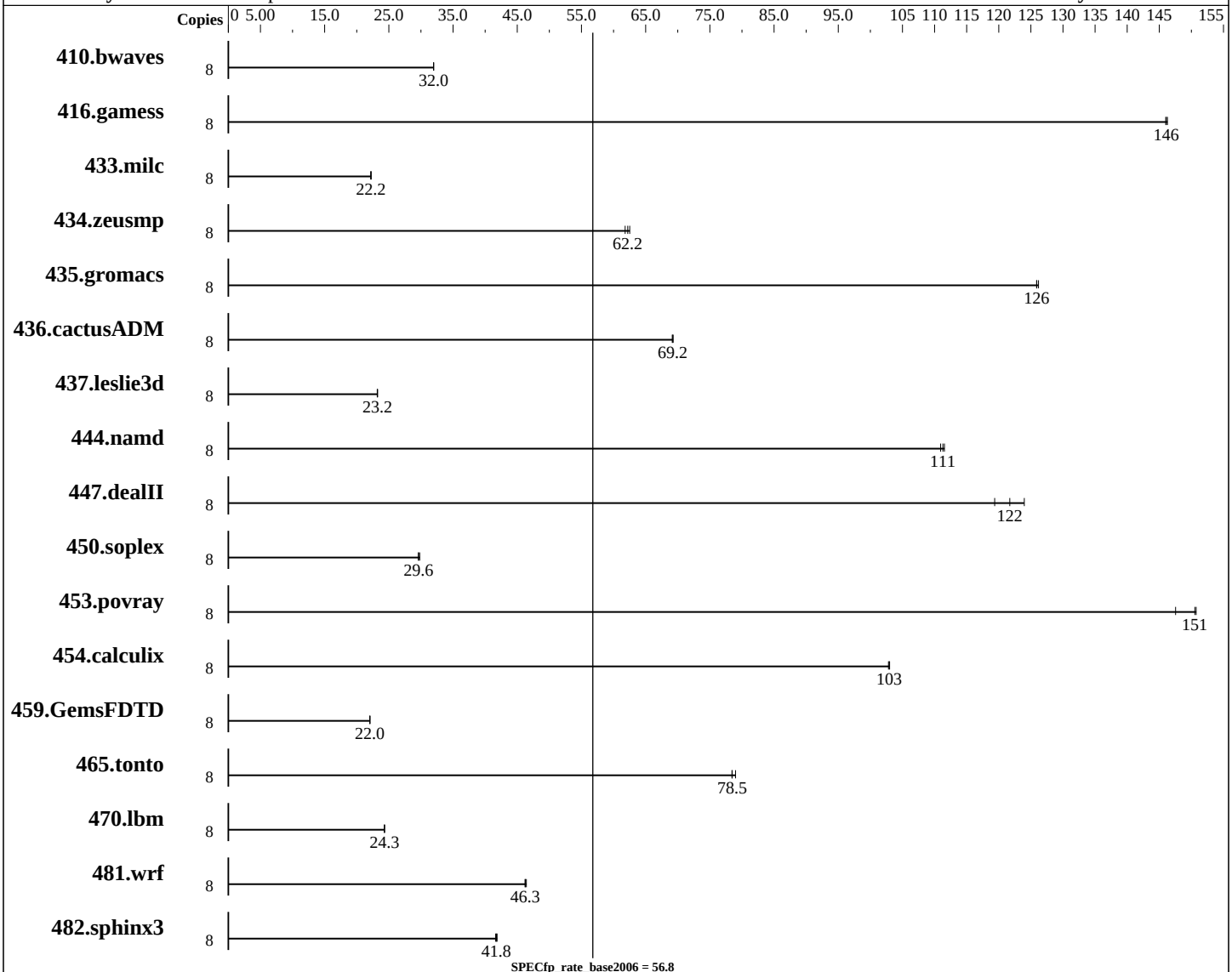
IBM BladeCenter HS21 (Intel Xeon X5355)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 56.8

CPU2006 license: 11
Test sponsor: IBM Corporation
Tested by: IBM Corporation

Test date: Apr-2007
Hardware Availability: Apr-2007
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	1333MHz system bus
CPU MHz:	2667
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:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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Software

Operating System:	SuSE Linux Enterprise Server 10 EM64T kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_cc_c_9.1.045 Build no 20061101 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_fc_c_9.1.040 Build no 20061101
Auto Parallel:	No

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L3 Cache:	None	File System:	ext2
Other Cache:	None	System State:	Multi-user run level 3
Memory:	8 GB (8 x 1GB DDR2-5300F ECC)	Base Pointers:	64-bit
Disk Subsystem:	1 x 74 GB SAS, 10000 RPM	Peak Pointers:	Not Applicable
Other Hardware:	Memory and I/O Expansion Unit (P/N 42C1600)	Other Software:	None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3401	32.0	**3401**	**32.0**	3400	32.0							
416.gamess	8	1073	146	1071	146	**1072**	**146**							
433.milc	8	**3306**	**22.2**	3311	22.2	3303	22.2							
434.zeusmp	8	**1170**	**62.2**	1178	61.8	1164	62.5							
435.gromacs	8	453	126	**454**	**126**	454	126							
436.cactusADM	8	1380	69.3	1383	69.1	**1381**	**69.2**							
437.leslie3d	8	**3238**	**23.2**	3243	23.2	3235	23.2							
444.namd	8	575	112	**576**	**111**	578	111							
447.dealII	8	**752**	**122**	767	119	738	124							
450.soplex	8	2238	29.8	**2251**	**29.6**	2255	29.6							
453.povray	8	288	148	**283**	**151**	282	151							
454.calculix	8	641	103	642	103	**641**	**103**							
459.GemsFDTD	8	**3851**	**22.0**	3852	22.0	3847	22.1							
465.tonto	8	1004	78.4	996	79.0	**1003**	**78.5**							
470.lbm	8	4521	24.3	**4520**	**24.3**	4520	24.3							
481.wrf	8	1934	46.2	1925	46.4	**1932**	**46.3**							
482.sphinx3	8	3745	41.6	**3734**	**41.8**	3725	41.9							

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

Platform Notes

```
"ulimit -s unlimited" set
```

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

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Base Compiler Invocation (Continued)

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/ibm-ic91-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/ibm-ic91-flags.xml

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