SPEC® CFP2006 Result

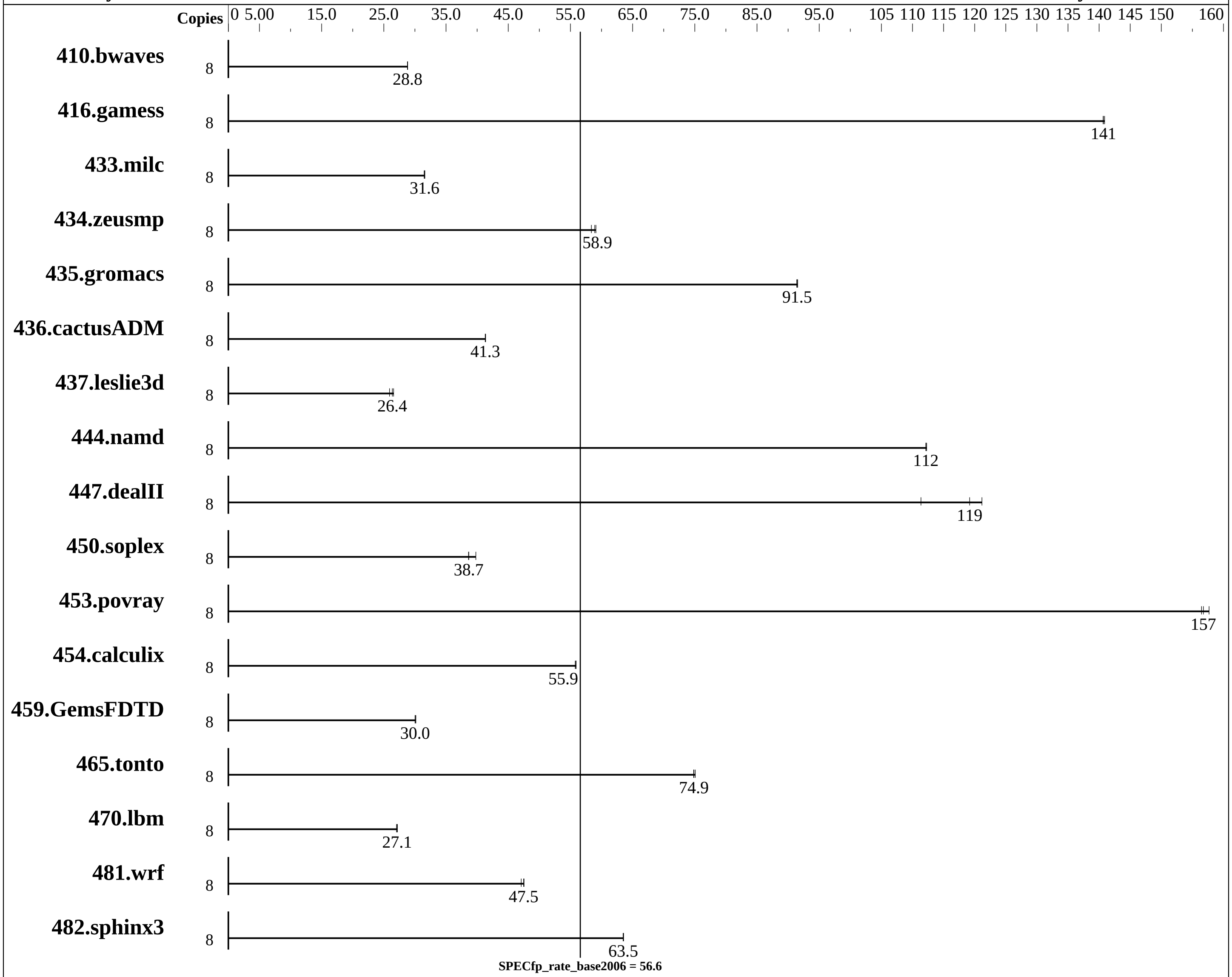
Supermicro
(Test Sponsor: Advanced Micro Devices)

SuperServer 6025W-NTR+B, Intel Xeon 5440

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 56.6

CPU2006 license: 49		**Test date:**	Apr-2008
Test sponsor:	Advanced Micro Devices	**Hardware Availability:**	Nov-2007
Tested by:	Advanced Micro Devices	**Software Availability:**	Mar-2008



Hardware

CPU Name:	Intel Xeon E5440
CPU Characteristics:	
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) SP1, Kernel 2.6.16.46-0.12-smp
Compiler:	gcc, g++, gfortran 4.3.0
Auto Parallel:	No
File System:	ext3
System State:	Runlevel 3 (Full multiuser with network)
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other Software:	None

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 x 2GB, DDR2-667 FBDIMM CL5 Dual Rank)
Disk Subsystem: 1 x 120 GB SATA, 7200 RPM
Other Hardware: None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3776	28.8	3771	28.8	**3773**	**28.8**							
416.gamess	8	**1113**	**141**	1114	141	1112	141							
433.milc	8	**2328**	**31.6**	2324	31.6	2333	31.5							
434.zeusmp	8	1232	59.1	**1236**	**58.9**	1247	58.4							
435.gromacs	8	**625**	**91.5**	624	91.5	625	91.4							
436.cactusADM	8	**2314**	**41.3**	2315	41.3	2311	41.4							
437.leslie3d	8	2902	25.9	**2852**	**26.4**	2830	26.6							
444.namd	8	571	112	572	112	**572**	**112**							
447.dealII	8	755	121	822	111	**768**	**119**							
450.soplex	8	1677	39.8	**1726**	**38.7**	1728	38.6							
453.povray	8	270	158	**271**	**157**	272	156							
454.calculix	8	1183	55.8	**1181**	**55.9**	1180	55.9							
459.GemsFDTD	8	**2826**	**30.0**	2828	30.0	2815	30.1							
465.tonto	8	1049	75.1	1052	74.8	**1052**	**74.9**							
470.lbm	8	4065	27.0	4044	27.2	**4052**	**27.1**							
481.wrf	8	**1882**	**47.5**	1898	47.1	1879	47.5							
482.sphinx3	8	2453	63.6	2457	63.5	**2455**	**63.5**							

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

Operating System Notes

'numactl' was used to bind copies to the cores

Base Compiler Invocation

C benchmarks:
`gcc`

C++ benchmarks:
`g++`

Fortran benchmarks:
`gfortran`

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Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:
`gcc gfortran`

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`
436.cactusADM: `-DSPEC_CPU_LP64`
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`
459.GemsFDTD: `-DSPEC_CPU_LP64`
465.tonto: `-DSPEC_CPU_LP64`
470.lbm: `-DSPEC_CPU_LP64`
481.wrf: `-DSPEC_CPU_LP64 -DSPEC_CPU_LINUX -DSPEC_CPU_CASE_FLAG`
482.sphinx3: `-DSPEC_CPU_LP64`

Base Optimization Flags

C benchmarks:
`-O3 -funroll-loops -fno-strict-aliasing`

C++ benchmarks:
`-O3 -funroll-loops -fno-strict-aliasing`

Fortran benchmarks:
`-O3 -funroll-loops -fno-strict-aliasing`

Benchmarks using both Fortran and C:
`-O3 -funroll-loops -fno-strict-aliasing`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.04.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.04.xml

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

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