



SPEC[®] CFP2006 Result

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Supermicro

(Test Sponsor: Advanced Micro Devices)

SPECfp[®]_rate2006 = Not Run

SuperServer 6025W-NTR+B, Intel Xeon 5440

SPECfp_rate_base2006 = 56.6

CPU2006 license: 49

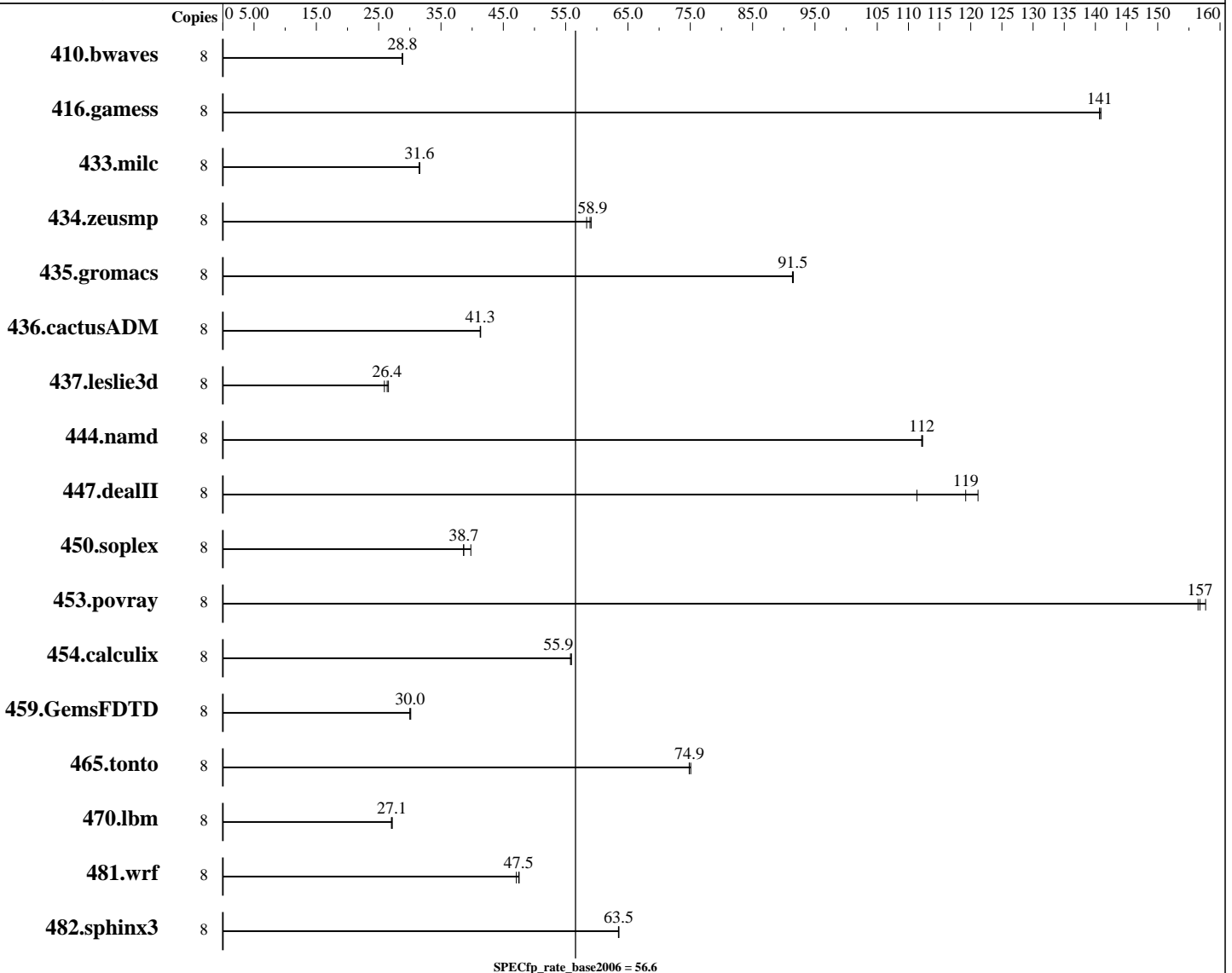
Test sponsor: Advanced Micro Devices

Tested by: Advanced Micro Devices

Test date: Apr-2008

Hardware Availability: Nov-2007

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



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For other inquiries, please contact webmaster@spec.org.

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