



SPEC[®] CFP2006 Result

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Supermicro

(Test Sponsor: Advanced Micro Devices)

SPECfp[®]_rate2006 = Not Run

SuperServer 8025C-3RB, Intel Xeon X7350

SPECfp_rate_base2006 = 88.0

CPU2006 license: 49

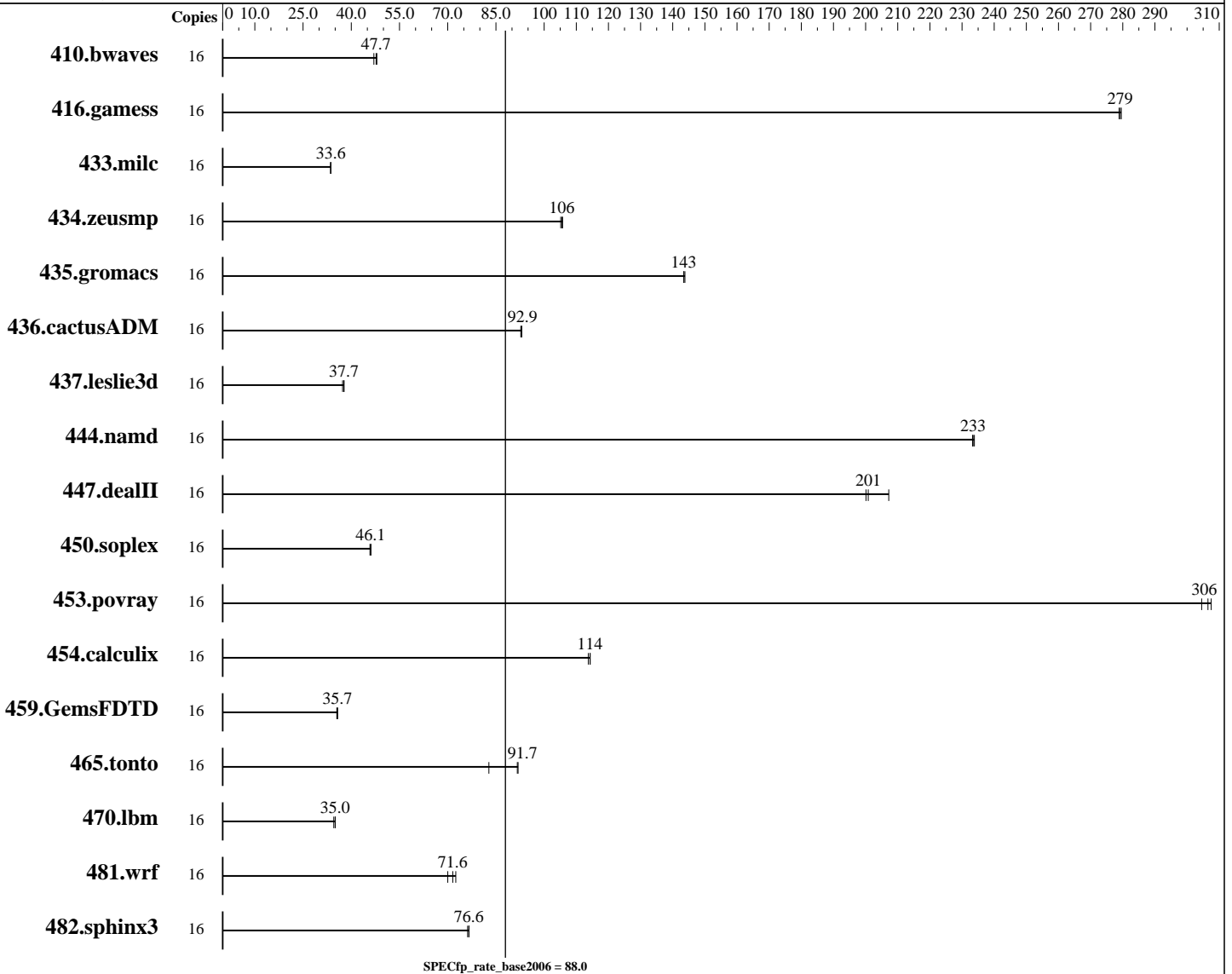
Test sponsor: Advanced Micro Devices

Tested by: Advanced Micro Devices

Test date: Apr-2008

Hardware Availability: May-2007

Software Availability: Mar-2008



Hardware

CPU Name: Intel Xeon X7350
 CPU Characteristics:
 CPU MHz: 2933
 FPU: Integrated
 CPU(s) enabled: 16 cores, 4 chips, 4 cores/chip
 CPU(s) orderable: 2,4 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 (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: 32 GB (16 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	16	4624	47.0	<u>4557</u>	<u>47.7</u>	4534	48.0							
416.gamess	16	<u>1122</u>	<u>279</u>	1121	280	1123	279							
433.milc	16	4379	33.5	<u>4367</u>	<u>33.6</u>	4362	33.7							
434.zeusmp	16	<u>1380</u>	<u>106</u>	1377	106	1385	105							
435.gromacs	16	<u>796</u>	<u>143</u>	794	144	796	143							
436.cactusADM	16	2062	92.7	<u>2057</u>	<u>92.9</u>	2055	93.1							
437.leslie3d	16	4032	37.3	<u>3988</u>	<u>37.7</u>	3986	37.7							
444.namd	16	<u>550</u>	<u>233</u>	549	234	550	233							
447.dealII	16	915	200	<u>911</u>	<u>201</u>	883	207							
450.soplex	16	2913	45.8	<u>2897</u>	<u>46.1</u>	2894	46.1							
453.povray	16	280	305	<u>278</u>	<u>306</u>	277	308							
454.calculix	16	1155	114	<u>1155</u>	<u>114</u>	1161	114							
459.GemsFDTD	16	4749	35.7	<u>4757</u>	<u>35.7</u>	4783	35.5							
465.tonto	16	1901	82.8	1713	91.9	<u>1718</u>	<u>91.7</u>							
470.lbm	16	6362	34.6	<u>6284</u>	<u>35.0</u>	6279	35.0							
481.wrf	16	2553	70.0	2465	72.5	<u>2497</u>	<u>71.6</u>							
482.sphinx3	16	4093	76.2	4069	76.6	<u>4073</u>	<u>76.6</u>							

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.20090713.05.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.05.xml



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

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