SPEC® CFP2006 Result

Supermicro
(Test Sponsor: Advanced Micro Devices)

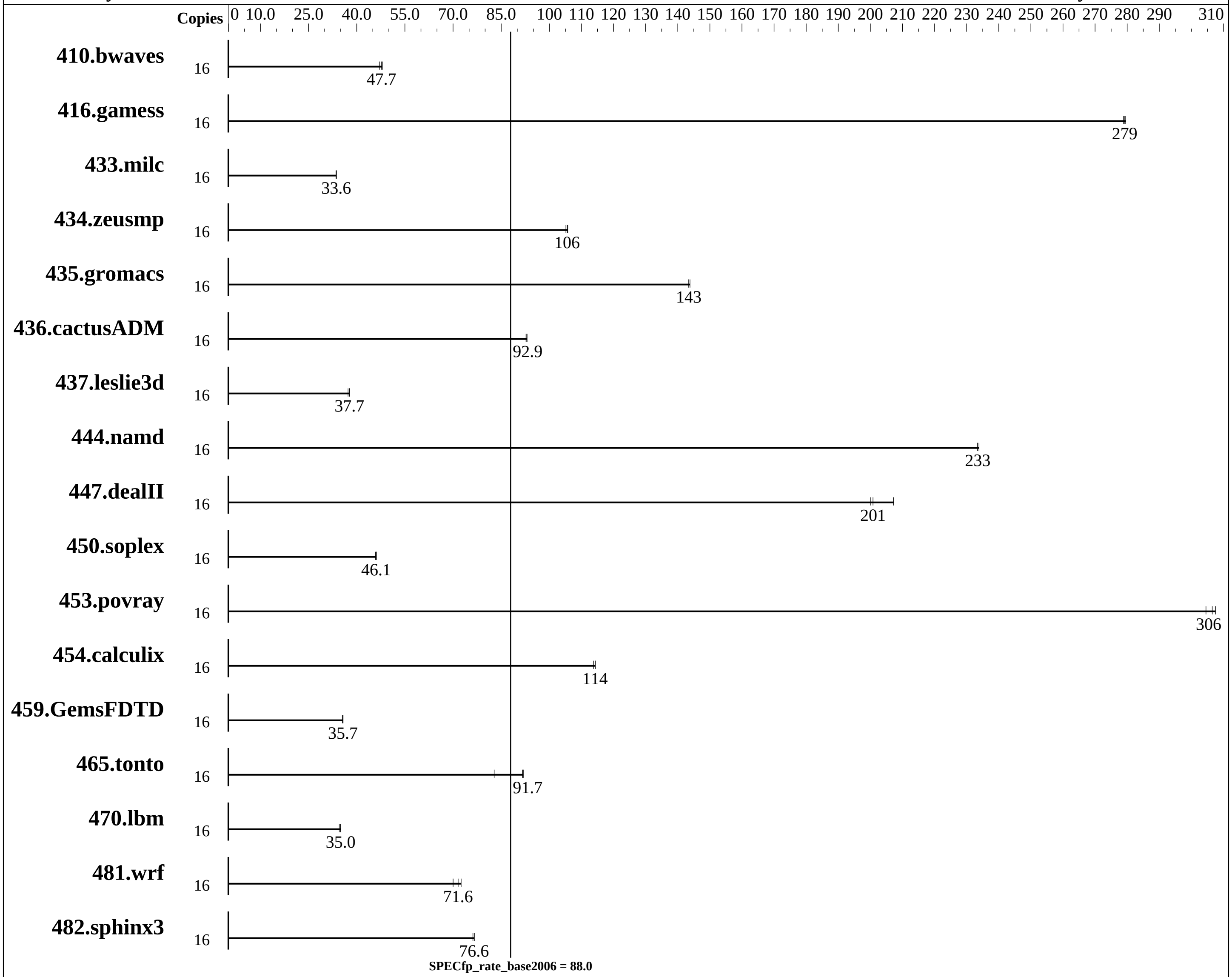
SuperServer 8025C-3RB, Intel Xeon X7350

SPECfp®_rate2006 = Not Run

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

Continued on next page

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

SPEC CFP2006 Result

Supermicro
(Test Sponsor: Advanced Micro Devices)

SuperServer 8025C-3RB, Intel Xeon X7350

SPECfp_rate2006 = Not Run

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

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	**4557**	**47.7**	4534	48.0							
416.gamess	16	**1122**	**279**	1121	280	1123	279							
433.milc	16	4379	33.5	**4367**	**33.6**	4362	33.7							
434.zeusmp	16	**1380**	**106**	1377	106	1385	105							
435.gromacs	16	**796**	**143**	794	144	796	143							
436.cactusADM	16	2062	92.7	**2057**	**92.9**	2055	93.1							
437.leslie3d	16	4032	37.3	**3988**	**37.7**	3986	37.7							
444.namd	16	**550**	**233**	549	234	550	233							
447.dealII	16	915	200	**911**	**201**	883	207							
450.soplex	16	2913	45.8	**2897**	**46.1**	2894	46.1							
453.povray	16	280	305	**278**	**306**	277	308							
454.calculix	16	1155	114	**1155**	**114**	1161	114							
459.GemsFDTD	16	4749	35.7	**4757**	**35.7**	4783	35.5							
465.tonto	16	1901	82.8	1713	91.9	**1718**	**91.7**							
470.lbm	16	6362	34.6	**6284**	**35.0**	6279	35.0							
481.wrf	16	2553	70.0	2465	72.5	**2497**	**71.6**							
482.sphinx3	16	4093	76.2	4069	76.6	**4073**	**76.6**							

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`

Continued on next page

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

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 18:49:19 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 5 August 2008.