SPEC® CFP2006 Result

Intel Corporation

(Test Sponsor: Advanced Micro Devices)

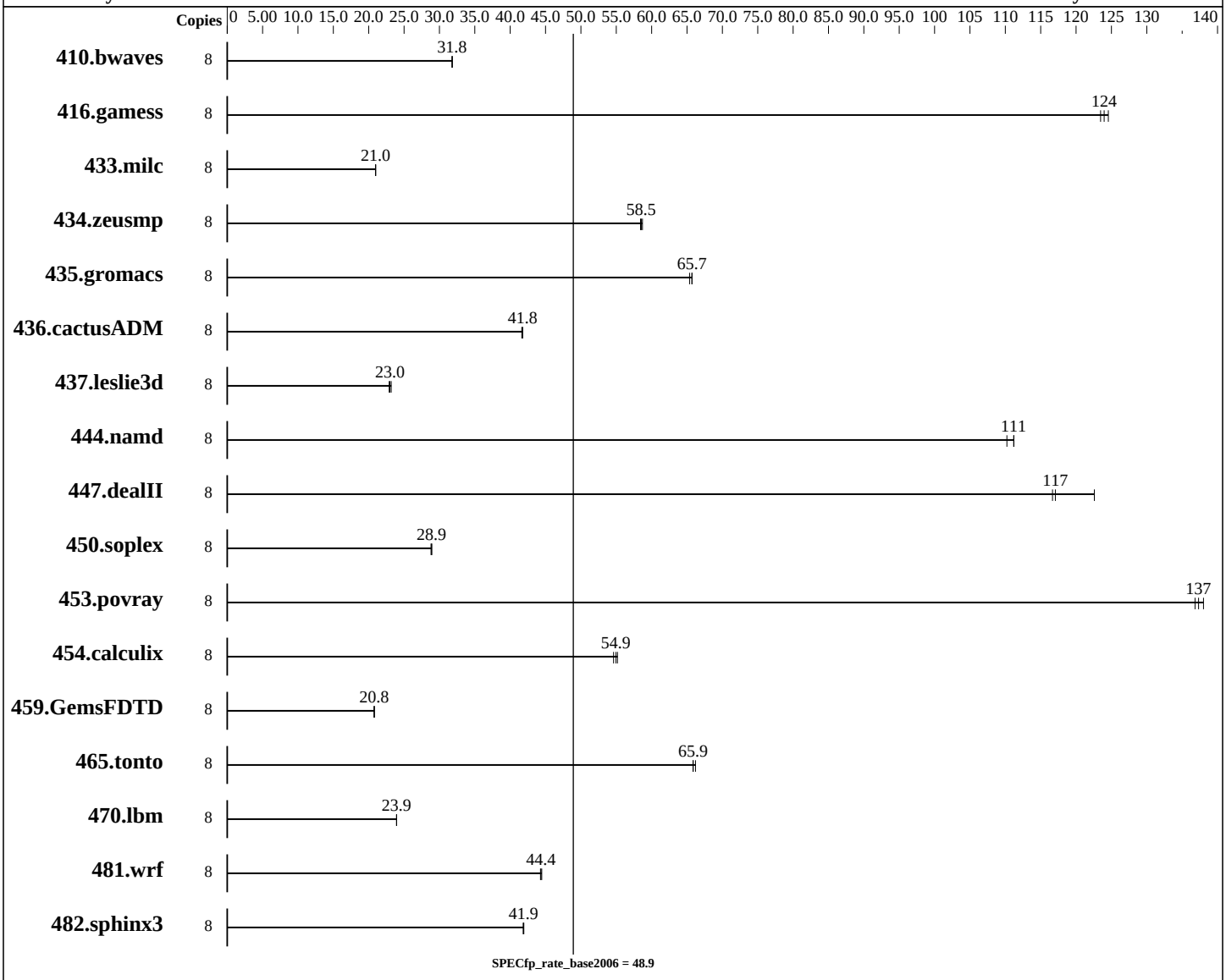
Intel S5000PAL Server Board, Intel Xeon processor X5355, 2.66 GHz

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 48.9

CPU2006 license: 49
Test sponsor: Advanced Micro Devices
Tested by: Advanced Micro Devices

Test date: Sep-2007
Hardware Availability: May-2007
Software Availability: Jul-2007



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	
CPU MHz:	2666
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 SP1 64-bit kernel
Compiler:	gcc, g++, gfortran 4.1.2
Auto Parallel:	No
File System:	ext3
System State:	Multi-user, run level 3
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other Software:	None

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2GB, DDR2-667 FBDIMM CL5 Reg Dual Rank)
Disk Subsystem: 1x250GB 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	**3420**	**31.8**	3416	31.8	3420	31.8							
416.gamess	8	1258	125	**1264**	**124**	1269	123							
433.milc	8	3504	21.0	**3500**	**21.0**	3499	21.0							
434.zeusmp	8	**1244**	**58.5**	1240	58.7	1246	58.4							
435.gromacs	8	874	65.4	869	65.7	**869**	**65.7**							
436.cactusADM	8	**2290**	**41.8**	2290	41.8	2296	41.6							
437.leslie3d	8	3244	23.2	3285	22.9	**3269**	**23.0**							
444.namd	8	**577**	**111**	577	111	582	110							
447.dealII	8	747	123	**782**	**117**	784	117							
450.soplex	8	2307	28.9	2316	28.8	**2309**	**28.9**							
453.povray	8	**310**	**137**	308	138	311	137							
454.calculix	8	1208	54.6	1196	55.2	**1201**	**54.9**							
459.GemsFDTD	8	**4086**	**20.8**	4087	20.8	4079	20.8							
465.tonto	8	1189	66.2	**1195**	**65.9**	1196	65.8							
470.lbm	8	**4591**	**23.9**	4592	23.9	4590	24.0							
481.wrf	8	**2015**	**44.4**	2018	44.3	2010	44.5							
482.sphinx3	8	**3724**	**41.9**	3718	41.9	3726	41.9							

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

General Notes

"powersave -f" used to set speed to maximum
wrf needs wrf_data_header_size 8
to read the unformatted data input file correctly

The test system can be assembled using a
Delta TDPS-600AB 600W 12V power supply.

Base Compiler Invocation

C benchmarks:
gcc

C++ benchmarks:
g++

Fortran benchmarks:
gfortran

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_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-O3 -fno-inline-functions -funroll-loops

C++ benchmarks:
-O3 -funroll-loops

Fortran benchmarks:
-O3 -fno-inline-functions -funroll-loops

Benchmarks using both Fortran and C:
-O3 -fno-inline-functions -funroll-loops

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.03.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.03.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 14:02:30 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 2 October 2007.