



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®2006 = 15.4

CELSIUS V840, AMD Opteron 2218

SPECfp_base2006 = 12.5

CPU2006 license: 22

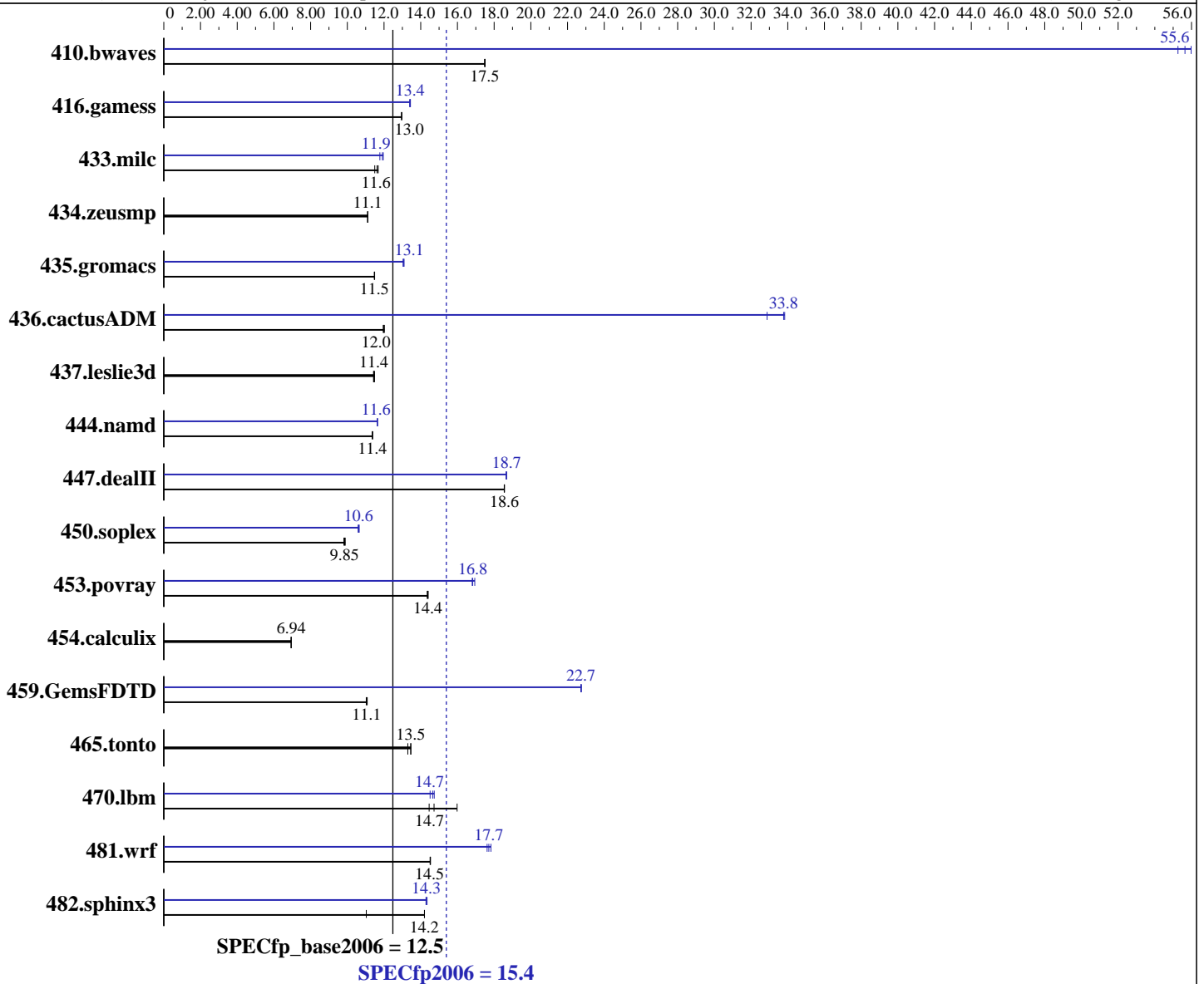
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Jan-2007

Hardware Availability: Nov-2006

Software Availability: Aug-2006



Hardware

CPU Name: AMD Opteron 2218
 CPU Characteristics: Dual Core, 2.6 GHz, 2 MB L2-cache
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core

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Software

Operating System: SLES 10 for AMD64/EM64T
 Compiler: QLogic Pathscale Compiler Suite 2.5
 Auto Parallel: Yes
 File System: ext3
 System State: Multi-User SuSE Run Level 3
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: --



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L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2GB DDR2-667 CL5 dual rank ECC DIMMs registered)
 Disk Subsystem: SATA II, 80 GB
 Other Hardware: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	776	17.5	777	17.5	777	17.5	246	55.3	243	56.0	244	55.6
416.gamess	1511	13.0	1511	13.0	1511	13.0	1458	13.4	1462	13.4	1457	13.4
433.milc	799	11.5	786	11.7	790	11.6	771	11.9	768	12.0	780	11.8
434.zeusmp	820	11.1	819	11.1	818	11.1	820	11.1	819	11.1	818	11.1
435.gromacs	622	11.5	622	11.5	622	11.5	546	13.1	548	13.0	545	13.1
436.cactusADM	999	12.0	994	12.0	997	12.0	364	32.9	354	33.8	353	33.8
437.leslie3d	819	11.5	821	11.4	823	11.4	819	11.5	821	11.4	823	11.4
444.namd	705	11.4	706	11.4	705	11.4	689	11.6	689	11.6	689	11.6
447.dealII	616	18.6	617	18.5	616	18.6	613	18.7	614	18.6	613	18.7
450.soplex	844	9.89	846	9.85	850	9.81	788	10.6	785	10.6	783	10.6
453.povray	371	14.4	369	14.4	370	14.4	316	16.8	314	16.9	317	16.8
454.calculix	1188	6.95	1190	6.93	1188	6.94	1188	6.95	1190	6.93	1188	6.94
459.GemsFDTD	957	11.1	959	11.1	962	11.0	466	22.8	467	22.7	467	22.7
465.tonto	731	13.5	740	13.3	731	13.5	731	13.5	740	13.3	731	13.5
470.ibm	860	16.0	933	14.7	950	14.5	932	14.7	938	14.7	947	14.5
481.wrf	770	14.5	769	14.5	770	14.5	627	17.8	631	17.7	634	17.6
482.sphinx3	1372	14.2	1372	14.2	1767	11.0	1364	14.3	1359	14.3	1362	14.3

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

Operating System Notes

powersave -f is applied to set CPU to maximum frequency prior to run
stacksize is set to unlimited prior to run

General Notes

Binaries are generated on an Opteron-based system running Suse 9.3.

BIOS default settings with
Node memory interleave disabled, SRAT enabled

For information about Fujitsu Siemens Computers in your country please see:

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General Notes (Continued)

<http://www.fujitsu-siemens.com/countries>

Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Fortran benchmarks:
pathf95

Benchmarks using both Fortran and C:
pathcc pathf95

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 -fno-second-underscore
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.deallI: -DSPEC_CPU_LP64 -DSPEC_CPU_TABLE_WORKAROUND
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 -fno-second-underscore
482.sphinx3: -DSPEC_CPU_LP64

```

Base Optimization Flags

C benchmarks:
-Ofast

C++ benchmarks:
-Ofast

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Base Optimization Flags (Continued)

Fortran benchmarks:

-Ofast

Benchmarks using both Fortran and C:

-Ofast

Peak Compiler Invocation

C benchmarks:

pathcc

C++ benchmarks:

pathCC

Fortran benchmarks:

pathf95

Benchmarks using both Fortran and C:

pathcc pathf95

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast

470.lbm: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2)

482.sphinx3: -Ofast -apo

C++ benchmarks:

444.namd: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast

447.dealII: -Ofast -fno-exceptions

450.soplex: -O3 -OPT:IEEE_arith=3 -CG:load_exe=0 -CG:movnti=1
-LNO:minvariant=off -fno-exceptions

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Peak Optimization Flags (Continued)

453.povray: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
-fno-fast-math

Fortran benchmarks:

410.bwaves: -Ofast -apo

416.gamess: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: Same as 410.bwaves

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: -O3 -OPT:rsqrt=2 -OPT:ro=3

436.cactusADM: -Ofast -apo

454.calculix: basepeak = yes

481.wrf: Same as 436.cactusADM

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.14.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.14.xml

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Tested with SPEC CPU2006 v1.0.

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