



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

CELSIUS V830, Opteron 256, Linux 64-bit

SPECfp®2006 = 13.2

CPU2006 license: 22

Test date: Apr-2006

Hardware Availability: Sep-2005

Software Availability: Mar-2006



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L3 Cache: None
 Other Cache: None
 Memory: 2 GB (4 x 512 MB PC3200 CL3-3-3 DDR SDRAM)
 Disk Subsystem: SCSI U320
 Other Hardware: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	758	17.9	745	18.2	747	18.2	685	19.8	681	19.9	696	19.5
416.gamess	1366	14.3	1366	14.3	1366	14.3	1270	15.4	1270	15.4	1270	15.4
433.milc	806	11.4	805	11.4	805	11.4	800	11.5	799	11.5	797	11.5
434.zeusmp	749	12.1	749	12.1	749	12.1	749	12.2	749	12.2	750	12.1
435.gromacs	564	12.7	567	12.6	565	12.6	509	14.0	509	14.0	509	14.0
436.cactusADM	1106	10.8	1107	10.8	1107	10.8	1108	10.8	1104	10.8	1105	10.8
437.leslie3d	859	10.9	852	11.0	859	10.9	851	11.0	854	11.0	858	11.0
444.namd	618	13.0	618	13.0	618	13.0	598	13.4	598	13.4	598	13.4
447.dealII	591	19.4	591	19.4	591	19.4	506	22.6	505	22.6	505	22.7
450.soplex	844	9.88	846	9.86	850	9.81	751	11.1	751	11.1	755	11.0
453.povray	309	17.2	309	17.2	309	17.2	274	19.4	274	19.4	274	19.4
454.calculix	1035	7.97	1036	7.96	1036	7.96	1035	7.97	1037	7.96	1036	7.96
459.GemsFDTD	1211	8.76	1208	8.79	1209	8.77	1211	8.76	1208	8.79	1209	8.77
465.tonto	676	14.6	677	14.5	678	14.5	676	14.6	677	14.5	678	14.5
470.lbm	1143	12.0	1150	11.9	1148	12.0	1151	11.9	1164	11.8	1158	11.9
481.wrf	780	14.3	780	14.3	779	14.3	780	14.3	780	14.3	779	14.3
482.sphinx3	1360	14.3	1363	14.3	1373	14.2	1331	14.6	1329	14.7	1338	14.6

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

General Notes

BIOS default settings with
 Node memory interleave disabled, SRAT enabled

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Base Compiler Invocation

C benchmarks:
 pathcc

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Base Compiler Invocation (Continued)

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.dealII: -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

Fortran benchmarks:
-Ofast

Benchmarks using both Fortran and C:
-Ofast



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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: Same as 433.milc

482.sphinx3: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-LNO:sclrze=off -LNO:prefetch=1

C++ benchmarks:

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

447.dealII: -Ofast -m32 -fno-exceptions

450.soplex: -m32 -O3 -OPT:IEEE_arith=3 -CG:load_exe=0 -CG:movnti=1
-LNO:minvariant=off -fno-exceptions

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

Fortran benchmarks:

410.bwaves: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-OPT:Ofast -OPT:IEEE_arith=3 -LNO:blocking=off
-LNO:ignore_feedback=off

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Software Availability:

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Peak Optimization Flags (Continued)

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

434.zeusmp: -O3 -CG:load_exe=0

437.leslie3d: -O3 -OPT:Ofast

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

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

436.cactusADM: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-LNO:prefetch_ahead=5 -LNO:ou_prod_max=10 -LNO:full_unroll=5
-ipa

454.calculix: -Ofast

481.wrf: basepeak = yes

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.03.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.03.xml

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Tested with SPEC CPU2006 v91.

Report generated on Tue Sep 13 11:16:41 2016 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 24 August 2006.