SPEC® CFP2006 Result

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Supermicro

Motherboard H8DM3-2 AMD Opteron 2347

SPECfp®_rate2006 = NA

SPECfp_rate_base2006 = NA

CPU2006 license: 001176
Test sponsor: Supermicro
Tested by: Supermicro

Test date: Sep-2007
Hardware Availability: Sep-2007
Software Availability: Oct-2007

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the processor vendor reported that the processor would not meet the SPEC OSG requirements for continued availability.

Copies
410.bwaves
416.gamess
433.milc
434.zeusmp
435.gromacs
436.cactusADM
437.leslie3d
444.namd
447.dealII
450.soplex
453.povray
454.calculix
459.GemsFDTD
465.tonto
470.lbm
481.wrf
482.sphinx3

Not Available

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Hardware

CPU Name:	AMD Opteron 2347
CPU Characteristics:	
CPU MHz:	1900
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	512 KB I+D on chip per core
L3 Cache:	2 MB I+D on chip per chip
Other Cache:	None
Memory:	16 GB (8x 2GB, PC2-5300 CL5 ECC Reg
Disk Subsystem:	1x SATA, 250 GB, 7200 RPM
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 10 SP1 64-bit kernel
Compiler:	The Portland Group (PGI) PGI pgcc 7.1-0 C Compiler PGI pgCC 7.1-0 C++ Compiler PathScale Compiler Suite, Release 3.0
Auto Parallel:	No
File System:	ReiserFS
System State:	Multi-user, run level 2
Base Pointers:	64-bit
Peak Pointers:	32/64-bit
Other Software:	SmartHeap 8.0 32-bit Library for Linux

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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
416.gamess	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
433.milc	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
434.zeusmp	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
435.gromacs	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
436.cactusADM	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
437.leslie3d	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
444.namd	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
447.dealII	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
450.soplex	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
453.povray	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
454.calculix	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
459.GemsFDTD	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
465.tonto	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
470.lbm	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
481.wrf	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA
482.sphinx3	8	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	NA

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

Operating System Notes

```
Environment stack size set to 'unlimited'
PGI_HUGE_PAGES set to 896.
Total number of huge pages available is 7168.
```

General Notes

```
Product description located as of
http://www.supermicro.com/Aplus/motherboard/Opteron2000/MCP55/H8DM3-2.cfm
```

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Base Compiler Invocation

C benchmarks:
pgcc

C++ benchmarks:
pgcpp

Fortran benchmarks:
pgf95

Benchmarks using both Fortran and C:
pgcc pgf95

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 -Mnomain
436.cactusADM: -DSPEC_CPU_LP64 -Mnomain
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 -Mnomain
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:
-fast -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448
-tp barcelona-64 -Bstatic_pgi

Continued on next page

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the processor vendor reported that the processor would not meet the SPEC OSG requirements for continued availability.

Base Optimization Flags (Continued)

C++ benchmarks:
`-fast -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448 --zc_eh -tp barcelona-64 -Bstatic`

Fortran benchmarks:
`-fast -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448 -tp barcelona-64 -Bstatic_pg`

Benchmarks using both Fortran and C:
`-fast -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448 -tp barcelona-64 -Bstatic_pg`

Base Other Flags

C benchmarks:
`-w`

C++ benchmarks:
`-w`

Fortran benchmarks:
`-w`

Benchmarks using both Fortran and C:
`-w`

Peak Compiler Invocation

C benchmarks (except as noted below):
`pathcc`

433.milc: `pgcc`

Continued on next page

Not Available

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Not Available

Peak Compiler Invocation (Continued)

C++ benchmarks (except as noted below):
pathCC

444.namd: pgcpp

453.povray: pgcpp

Fortran benchmarks (except as noted below):
pathf95

434.zeusmp: pgf95

465.tonto: pgf95

Benchmarks using both Fortran and C (except as noted below):
pgcc pgf95

436.cactusADM: pathcc pathf95

Peak 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 -Mnomain
436.cactusADM: -DSPEC_CPU_LP64 -fno-second-underscore
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -Mnomain
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

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Peak Optimization Flags

C benchmarks:

433.milc: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inl(pass 2) -Mipa=noarg(pass 2) -Mpfo(pass 2) -fast -O4 -Mdse -Mfprelaxed -Msmartalloc=huge:448 -tp barcelona-64 -Bstatic_pgi

470.lbm: -Ofast

482.sphinx3: -fb_create fbdat(pass 1) -fb_opt fbdata(pass 2) -O3 -OPT:Ofast -WOPT:aggst=0 -m32

C++ benchmarks:

444.namd: -fast -O4 -Mfprelaxed -Msmartalloc=huge:448 --zc_eh -tp barcelona-64 -Mnoframepchk -Mprefetch -Msafe_lastval -Msafeptr=static -Mstride0 -Munroll=n:4 -Mvect=noidiom -Mvect=prefetch -Bstatic_pgi

447.dealII: -Ofast -INLINE:aggressive=on -OPT:malloc_alg=1 -m32 -fno-exceptions

450.soplex: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3 -OPT:IEEE_arith=3 -CG:load_exe=0 -CG:movnti=1 -LNO:invariant=off -LNO:prefetch=1 -fno-exceptions

453.povray: basepeak = yes

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

416.gamess: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O2 -OPT:Ofast -OPT:ro=3 -OPT:unroll_size=256

434.zeusmp: basepeak = yes

Continued on next page

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Not Available

Peak Optimization Flags (Continued)

437.leslie3d: `-Ofast -OPT:malloc_alg=1`

459.GemsFDTD: `-Ofast -LNO:fission=2 -LNO:prefetch=0`

465.tonto: `-fast -O4 -Mprelaxed -Msmartalloc=huge:448 -Mipa=fast -Mipa=inline -Mvect=noaltcode -tp barcelona-64 -Bstatic_pgi`

Benchmarks using both Fortran and C:

435.gromacs: `-fast -Mfpapprox=rsqrt -Mipa=fast -Mipa=inline -Mprelaxed -Msmartalloc=huge:448 -tp barcelona-64 -Bstatic_pgi`

436.cactusADM: `-fb_create fbdata`(pass 1) `-fb_opt fbdata`(pass 2) `-O3 -LNO:prefetch=3 -LNO:prefetch_ahead=5 -LNO:ou_prod_max=10 -LNO:full_unroll=5 -ipa`

454.calculix: `basepeak = yes`

481.wrf: `-fast -Mprelaxed -Msmartalloc=huge:448 -Mvect=noaltcode -tp barcelona-64 -Bstatic_pgi`

Peak Other Flags

C benchmarks:

C++ benchmarks (except as noted below):

`-w`

447.dealII: `-static`

450.soplex: `No flags used`

Fortran benchmarks:

434.zeusmp: `-w`

Continued on next page

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the processor vendor reported that the processor would not meet the SPEC OSG requirements for continued availability.

Peak Other Flags (Continued)

465.tonto: `-w`

Benchmarks using both Fortran and C (except as noted below):
`-w`

436.cactusADM: `No flags used`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/amd8[illegible]gs.20090714.01.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/amd814GH-flags.20090714.01.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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Not Available