



SPEC® CFP2006 Result

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Supermicro
Motherboard H8DM3-2

SPECfp®_rate2006 = NA
SPECfp_rate_base2006 = NA

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

Test date: Sep-2007
Hardware Availability: Oct-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 | |
| 465.totop | |
| 470.lbm | |
| 481.wrf | |
| 482.sphinx3 | |

Not Available



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Hardware

CPU Name: AMD Opteron 2350
CPU Characteristics:
CPU MHz: 2000
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 1 to 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 CL11)
Disk Subsystem: 1x SATA, 500 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 3
Base Pointers: 32/64-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

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

Operating System Notes

```
ulimit -l 2457600' was used to set environment locked pages in memory quantity
numactl -l 0 was used to bind copies to the cores
Set vm.nr_hugepages=1200 in /etc/sysctl.conf
mount -t hugetlbfs nodev /mnt/hugepages
```



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General Notes

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

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
411.gamess: -DSPEC_CPU_LP64
435.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -Mnomain
436.lammps: -DSPEC_CPU_LP64 -Mnomain
437.tesq3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
453.soplex: -DSPEC_CPU_LP64
453.petsc: -DSPEC_CPU_LP64
454.calxmix: -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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Base Optimization Flags

C benchmarks:
-fast -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448
-tp barcelona-64 -Bstatic_pgi

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

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

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

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

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Peak Compiler Invocation (Continued)

433.milc: pgcc

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: pathc pathf95

Peak Portability Flags

410.bwaves: -DSPEC_CPU_LP64

416.gamess: -DSPEC_CPU_LP64

432.gcc: -DSPEC_CPU_LP64

434.zeusmp: -DSPEC_CPU_LP64

435.gromacs: -DSPEC_CPU_LP64 -Mnomain

436.cactusADM: -DSPEC_CPU_LP64 -fno-second-underscore

437.milc3d: -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

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Peak Portability Flags (Continued)

482.sphinx3: -DSPEC_CPU_LP64

Peak Optimization Flags

C benchmarks:

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

470.lbm: -Ofast

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

C++ benchmarks:

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

447.deal: -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:minvariant=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

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Peak Optimization Flags (Continued)

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

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

459.GemsFDTD: -Ofast -LNO:fish=2 -LNO:prefetch=0

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

Benchmarks using both Fortran and C:

435.gromacs: -fast -Mfpapprox=rsqr -Mipa=fast -Mipa=inline -Mfprefaxed
-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

461.wrf: -fast -Mfprefaxed -Msmartalloc=huge:448 -Mvect=noaltcode
-tp barcelona-64 -Bstatic_pgi

Peak Other Flags

C benchmarks:

435.tpc: -w

C++ benchmarks (except as noted below):

-w

447.dealIII: -static

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Peak Other Flags (Continued)

450.soplex: No flags used

Fortran benchmarks:

434.zeusmp: -w

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/amd314GH-flags.20090714.01.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/amd314GH-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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