SPEC® CFP2006 Result

Supermicro
Motherboard H8DM3-2 AMD Opteron 2347

SPECfp®_rate2006 = NA
SPECfp_rate_base2006 = NA

CPU2006 license: 001176
Test date: Sep-2007
Test sponsorship: Supermicro
Hardware Availability: Sep-2007
Tested by: Supermicro
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 Not Available
Supermicro
Motherboard H8DM3-2 AMD Opteron 2347

<table>
<thead>
<tr>
<th>SPECfp_rate2006</th>
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<tr>
<td>SPECfp_rate_base2006</td>
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CPU2006 license: 001176
Test sponsor: Supermicro
Tested by: Supermicro

<table>
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<table>
<thead>
<tr>
<th>Hardware</th>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Name: AMD Opteron 2347</td>
<td>Operating System: SUSE Linux Enterprise Server 10 SP1 64-bit kernel</td>
</tr>
<tr>
<td>CPU Characteristics:</td>
<td>Compiler: The Portland Group (PGI)</td>
</tr>
<tr>
<td>CPU MHz: 1900</td>
<td>PGI pgcc 7.1-0 C Compiler</td>
</tr>
<tr>
<td>FPU: Integrated</td>
<td>PGI pgCC 7.1-0 C++ Compiler</td>
</tr>
<tr>
<td>CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip</td>
<td>PathScale Compiler Suite, Release 3.0</td>
</tr>
<tr>
<td>CPU(s) orderable: 1.2 chips</td>
<td>Auto Parallel: No</td>
</tr>
<tr>
<td>Primary Cache: 64 KB I + 64 KB D on chip per core</td>
<td>File System: ReiserFS</td>
</tr>
<tr>
<td>Secondary Cache: 512 KB I+D on chip per core</td>
<td>System State: Multi-user, run level 2</td>
</tr>
<tr>
<td>L3 Cache: 2 MB I+D on chip per chip</td>
<td>Base Pointers: 64-bit</td>
</tr>
<tr>
<td>Other Cache: None</td>
<td>Peak Pointers: 32/64-bit</td>
</tr>
<tr>
<td>Memory: 16 GB (8x 2GB, PC2-5300 CL5 ECC Reg)</td>
<td>Other Software: SmartHeap 8.0 32-bit Library for Linux</td>
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<tr>
<td>Disk Subsystem: 1x SATA, 250 GB, 7200 RPM</td>
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</tr>
</tbody>
</table>
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Results Table

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</tbody>
</table>

Results appear in 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/Opteran2000/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.esl妹子: -DSPEC_CPU_LP64
447.anum: -DSPEC_CPU_LP64
450.sople: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
459.GemsFDTD: -DSPEC_CPU_LP64 -Mnomain
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=normal:448
-tp barcelona-64 -Bstatic_pgi

Not Available
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| 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 |-Bstatic_pgi |
| Benchmarks using both Fortran and C: | -fast -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448 -tp barcelona-64 -Bstatic_pgi |

| C benchmarks: | -w |
| C++ benchmarks: | -w |
| Fortran benchmarks: | -w |
| Fortran and C: | -w |

Peak Compiler Invocation

| C benchmarks (except as noted below): pathcc |
| 433.milc: pgcc |

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 Compiler Invocation (Continued)**

C++ benchmarks (except as noted below):

pathCC

444.namd: pgc++
453.povray: pgc++

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.ml: -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=inline(pass 2)  
   -Mipa=nonoarpg(pass 2) -Mfpoc(pass 2) -fast -O4 -Mdse  
   -Mfprelaxed -Msmaxalloc=huge:448 -tp barcelonat-64  
   -Bstatic着重

470.lbm: -Ofast

482.sphinx3:  
   -fb_create fbdata(pass 1) -fb_create fbdata(pass 2) -O3  
   -OPT:Ofast -WOPT:aggrast=0 -m2

C++ benchmarks:

444.namad:  
   -fast -O4 -Mfprelaxed -Msmaxalloc=huge:448 --zc_eh  
   -tp barcelonat-64 -Mnodepcheck -Mprefetch -Msafe_lastval  
   -Msafeptr=static -Mstride0 -Munroll=n:4 -Mvect=oidiom  
   -Mvect=fetch -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:

434馏waves:  
   -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.game:  
   -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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Peak Optimization Flags (Continued)

437.leslie3d: -Ofast -OPT:malloc_alg=1
459.GemsFDTD: -Ofast -LNO:fission=2 -LNO:prefetch=0
465.tonto: -fast -O4 -Mfprelaxed -Msmartalloc=large:448 -Mipa=fast
- Mipa=inline -Mvect=noaltcode -tp barcelona-64 -Bstatic_pgi

Benchmarks using both Fortran and C:

435.gromacs: -fast -Mfapproxsqrt -Mipa=fast -Mipa=inline -Mfprelaxed
- Msmartalloc=large: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 -I -g
465.tonto: -fast -O4 -Mfprelaxed -Msmartalloc=large:448 -Mipa=fast
- Mipa=inline -Mvect=noaltcode -tp barcelona-64 -Bstatic_pgi
454.calculix: basepeak= yes
481.wrf: -fast -Mfprelaxed -Msmartalloc=large:448 -Mvect=noaltcode
- tp barcelona-64 -Bstatic_pgi

Peak Other Flags

C benchmarks:

C++ benchmarks (except as noted below):

447.dealII: -static
450.soplex: No flags used

Fortran benchmarks:

434.zeusmp: -w

Continued on next page
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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/amd814GH-flags.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.

Tested with SPEC CPU2006 v1.0.1.
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