Supermicro
Motherboard H8DM3-2

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.

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</tr>
</thead>
</table>

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 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

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:
Base Pointers: 32/64-bit
Peak Pointers: 32/64-bit
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Results Table

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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/Opteron2000/MCP55/H8DM3-2.cfm
Supermicro
Motherboard H8DM3-2

SPECint_rate2006 = NA
SPECint_rate_base2006 = NA

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

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Base Compiler Invocation

C benchmarks:
pgcc

C++ benchmarks:
pgcpp

Base Portability Flags

C benchmarks
400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64

C++ benchmarks

Base Optimization Flags

C benchmarks
-fast -Mipa=fast -Mipa=inline -Mipa=noarg -Mfprelaxed
-huge:840 -tp barcelona-64 -Bstatic_pgi

C++ benchmarks

Base Other Flags

C benchmarks
-w

Continued on next page
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Base Other Flags (Continued)

C++ benchmarks:
- w

Peak Compiler Invocation

C benchmarks (except as noted below):
pgcc
400.perlbench: pathcc
403.gcc: pathcc
445.gobmk: pathcc
464.h264ref: pathcc

C++ benchmarks (except as noted below):
pgcpp
483.xalancbmk: pathCC

Peak Portability Flags

 SPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
 401.bzip2: -DSPEC_CPU_LP64
 445.gobmk: -DSPEC_CPU_LP64
 56.hmmer: -DSPEC_CPU_LP64
 513.sjeng: -DSPEC_CPU_LP64
 462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
 464.h264ref: -DSPEC_CPU_LP64
 483.xalancbmk: -DSPEC_CPU_LINUX
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Peak Optimization Flags

C benchmarks:

400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
-LNO:opt=0

401.bzip2: -Mpfipass 1 -Mmpfopass 2 -fast
-Msmartalloc=huge:448 -tp barcelon a-64 -Bstatic_pgi

403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3
-OPT:Ofast

-t p barcelon a -Bstatic_pgi

445.qomkm: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off
-WOPT: typeid_expr=on

456.hmmer: -fast -Msmartalloc=huge:448 -Mfprelaxed -Msafeptr
-Miipa_cons=Mipa=ptr -Mipa=arg -tp barcelon a-64
-Bstatic_pgi

58.sjeng: -Mpfipass 1 -Mipafast(pass 2) -Mipa=inline:1(pass 2)
-Mipa=noarg(pass 2) -Mmpfopass 2 -fast
-Msmartalloc=huge:448 -Mfprelaxed -tp barcelon a-64
-Bstatic_pgi

462.libquantum: -fast -Mfprelaxed -Msmartalloc=huge:448 -Munroll=m:4
-Mipa=fast -Mipa=inline -Mipa=noarg -Bstatic_pgi

464.h264ref: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0

C++ benchmarks:

471.omnetpp: basepeak = yes

473.astar: basepeak = yes
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**Peak Optimization Flags (Continued)**

483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8
   -L/cpu2006/work/cpu2006/SmartHeap -lsmartheap

**Peak Other Flags**

C benchmarks (except as noted below):
   -w
   400.perlbench: No flags used
   403.gcc: No flags used
   445.gobmk: No flags used
   464.h264ref: No flags used

C++ benchmarks (except as noted below):
   -w
   483.xalancbmk: 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.20090714.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/amd814GH-flags.20090714.00.xml
## SPEC CINT2006 Result

### Supermicro Motherboard H8DM3-2

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### Test Details
- **Test date:** Sep-2007
- **Hardware Availability:** Sep-2007
- **Software Availability:** Apr-2007

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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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