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.
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.

Results Table

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Operating System Notes

ulimit -l 2457600 was used to set environment locked pages in memory quantity  
numactl was used to bind copies to the cores  
Set vm/nr_hugepages=1200 in /etc/sysctl.conf  
mount -t hugetlbfs nodev /mnt/hugepages

General Notes

Product description located as of  
http://www.supermicro.com/Aplus/motherboard/Operton2000/MCP55/H8DM3-2.cfm
Supermicro
Motherboard H8DM3-2

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Base Compiler Invocation

C benchmarks:
pgcc

C++ benchmarks:
pgccpp

Base Portability Flags

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
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

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

C++ benchmarks:
--fastsse -Mipa=fast -Mipa=inline -Mfprelated -Msmartalloc=huge:448
--zeh -tp barcelona -Bstatic_pgi

Base Other Flags

C benchmarks:
-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.

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

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

C benchmarks:

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

401.bzip2: -Mfpfi(pass 1) -Mfplo(pass 2) -fast
-Msmartalloc=huge:448 -tp barcelona-64 -Bstatic_pgi

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

-tp barcelona -Bstatic_pgi

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

456.hmmer: -fast -Msmartalloc=huge:448 -Mfprelaxed -Msafe ptr
-Mipa=const -Mipa=ptr -Mipa=arg -tp barcelona-64
-Bstatic_pgi

58.sjeng: -Mfpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline:1(pass 2)
-Mipa=noarg(pass 2) -Mfplo(pass 2) -fast
-Msmartalloc=huge:448 -Mfprelaxed -tp barcelona-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
SPEC CINT2006 Result

Supermicro
Motherboard H8DM3-2

SPECint_rate2006 = NA
SPECint_rate_base2006 = NA

Tested by: Supermicro

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 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.20090714.01.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

Not Available
**SPEC CINT2006 Result**

Supermicro
Motherboard H8DM3-2

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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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