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.

### Hardware

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Name</td>
<td>AMD Opteron 2350</td>
</tr>
<tr>
<td>CPU Characteristic</td>
<td></td>
</tr>
<tr>
<td>CPU MHz</td>
<td>2000</td>
</tr>
<tr>
<td>FPU</td>
<td>Integrated</td>
</tr>
<tr>
<td>CPU(s) enabled</td>
<td>8 cores, 2 chips, 4 cores/chip</td>
</tr>
<tr>
<td>CPU(s) orderable</td>
<td>1.2 chips</td>
</tr>
<tr>
<td>Primary Cache</td>
<td>64 KB I + 64 KB D on chip per core</td>
</tr>
<tr>
<td>Secondary Cache</td>
<td>512 KB I+D on chip per core</td>
</tr>
<tr>
<td>L3 Cache</td>
<td>2 MB I+D on chip per chip</td>
</tr>
<tr>
<td>Other Cache</td>
<td>None</td>
</tr>
</tbody>
</table>

### Software

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>SuSE Linux Enterprise Server 10 SP1 64-bit kernel</td>
</tr>
<tr>
<td>Compiler</td>
<td>The Portland Group (PGI)</td>
</tr>
<tr>
<td></td>
<td>PGI pgcc 7.1-0 C Compiler</td>
</tr>
<tr>
<td></td>
<td>PGI pgCC 7.1-0 C++ Compiler</td>
</tr>
<tr>
<td></td>
<td>PathScale Compiler Suite, Release 3.0</td>
</tr>
<tr>
<td>Auto Parallel</td>
<td>No</td>
</tr>
<tr>
<td>File System</td>
<td>ReiserFS</td>
</tr>
<tr>
<td>System State</td>
<td>Multi-user, run level 2</td>
</tr>
<tr>
<td>Base Pointers</td>
<td>32/64-bit</td>
</tr>
<tr>
<td>Peak Pointers</td>
<td>32/64-bit</td>
</tr>
</tbody>
</table>

Continued on next page
SPEC CINT2006 Result

Supermicro
Motherboard H8DMR-82

SPECint_rate2006 = NA
SPECint_rate_base2006 = NA

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

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

Memory: 32 GB (8x 4GB, PC5300 CL5 DDR2)
Disk Subsystem: 1x SATA, 500 GB, 7200 RPM
Other Hardware: None

Other Software: SmartHeap 8.0 32-bit Library for 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.

Errors:
Run of 429.mcf (base) was not valid; status is VE
Run of 429.mcf (peak) was not valid; status is VE

Not Available
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

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Base Copies</th>
<th>Base Seconds</th>
<th>Base Ratio</th>
<th>Peak Seconds</th>
<th>Peak Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>400.perlbench</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>401.bzip2</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>403.gcc</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>429.mcf</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>445.gobmk</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>456.hmmer</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>458.sjeng</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>462.libquantum</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>464.h264ref</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>471.omnetpp</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>473.astar</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>483.xalancbmk</td>
<td>8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Results appear in 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.

Base Compiler Invocation

C benchmarks:
pgcc
C++ benchmarks:
pgcpp

SPEC CINT2006 Result
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Supermicro
Motherboard H8DMR-82

SPECint_rate2006 = NA
SPECint_rate_base2006 = NA
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 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 -Mfprelaxed -Msmartalloc=huge:40 -t barcelona-64 -Bstatic_pgi`

C++ benchmarks:
-`-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448 --zo_eh -t barcelona-64 -Bstatic_pgi`

**Base Other Flags**

```
-w
```

C++ benchmarks:
-`-w`

**Peak Compiler Invocation**

```
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)

400.perlbench: pathcc
403.gcc: pathcc
445.gobmk: pathcc
464.h264ref: pathcc
C++ benchmarks (except as noted below):
p4ccp
483.xalancbmk: pathCC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -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

Peak Optimization Flags

C benchmarks:
400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -0fast
-LNO:opt=0
401.bzip2: -Mpfii(pass 1) -Mpf(o(pass 2) -fast -04
-Msmartalloc=large:448 -tp barcelona-64 -Bstatic_pgi
403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -03
-OPT:0fast

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 Optimization Flags (Continued)


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


458.sjeng: -Mfpi(pass 1) -Mipa=fast(pass 2) -Mipa=inline:1(pass 2) -Mipa=const -Mipa=arg -Mipa=noarg -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

483.xalancbmk: -O3 -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

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)

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

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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.
Report generated on Tue Jul 22 14:16:44 2014 by SPEC CPU2006 PS/PDF formatter v6932.