# SPEC® CINT2006 Result

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## Supermicro

## Motherboard H8DM3-2 AMD Opteron 2347

SPECint®_rate2006 = NA

SPECint_rate_base2006 = NA

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

**Test date:** Sep-2007
**Hardware Availability:** Sep-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 | |
|---|---|
| 400.perlbench | |
| 401.bzip2 | |
| 403.gcc | |
| 429.mcf | |
| 445.gobmk | |
| 456.hmmer | |
| 458.sjeng | |
| 462.libquantum | |
| 464.h264ref | |
| 471.omnetpp | |
| 473.astar | |
| 483.xalancbmk | |

Not Available

### 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: | 1,2 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 |

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### Software

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

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| | |
|---|---|
| Memory: | 16 GB (8x 2GB, PC2-5300 CL5 ECC Reg Dual Rank) |
| Disk Subsystem: | 1x SATA, 250 GB, 7200 RPM |
| Other Hardware: | None |

Other Software: tHeap 8.0 32-bit Library for Linux

## Results Table

| Benchmark | Base | | | | | | | Peak | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 401.bzip2 | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 403.gcc | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 429.mcf | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 445.gobmk | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 456.hmmer | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 458.sjeng | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 462.libquantum | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 464.h264ref | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 471.omnetpp | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 473.astar | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |
| 483.xalancbmk | 8 | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA | NA | NA | NA |

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

## Operating System Notes

```
ulimit -l (memlock) size set to 'unlimited'
Set 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
```

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## Base Compiler Invocation

C benchmarks:
pgcc

C++ benchmarks:
pgcpp

## 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:840 -tp barcelona-64 -Bstatic_pgi

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

## Base Other Flags

C benchmarks:
-w


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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

-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

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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: -Mpfi(pass 1) -Mpfo(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

429.mcf: -fastsse -Mipa=fast -Mipa=inline:1 -Msmartalloc=huge:420
-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:type_expr=on

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

458.sjeng: -Mpfi(pass 1) -Mipa=fast(pass 2) -Mipa=inline:1(pass 2)
-Mipa=noarg(pass 2) -Mpfo(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

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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.20090714.01.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.

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