

# SPEC<sup>®</sup> CINT2006 Result

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Supermicro  
Motherboard H8DMR-82

SPECint<sup>®</sup>\_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

**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.ast  
483.xalanbmk

## Hardware

CPU Name: AMD Opteron 2350  
CPU Characteristic: 2000  
CPU MHz: Integrated  
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)  
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: Multi-user, run level 2  
Base Pointers: 32/64-bit  
Peak Pointers: 32/64-bit

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

Other Software: glibc 2.11 Heap 8.0 32-bit Library for Linux

**Error**

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

**NOT A VALID RESULT**

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## 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 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:  
gcc  
C++ benchmarks:  
g++

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## 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.xalanbmk: -DSPEC_CPU_LINUX
```

## Base Optimization Flags

C benchmarks:

```
-fast -Mipa=fast -Mipa=inline -Mipa=noarg -Mfprelaxed
-Msmartalloc=huge:448 -t barcelona-64 -Bstatic_pgi
```

C++ benchmarks:

```
-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448
--z_oh -t barcelona -Bstatic_pgi
```

## Base Other Flags

```
-w
```

C++ benchmarks:

```
-w
```

## Peak Compiler Invocation

C benchmarks (except as noted below):

```
pgcc
```

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## Peak Compiler Invocation (Continued)

400.perlbench: pathcc  
403.gcc: pathcc  
445.gobmk: pathcc  
464.h264ref: pathcc  
C++ benchmarks (except as noted below):  
pgcpp  
483.xalanbmk: 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.xalanbmk: -DSPEC\_CPU\_LINUX

## 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 -O4  
-Msmartalloc=huge:448 -tp barcelona-64 -Bstatic\_pgi  
403.gcc: -fb\_create fbdata(pass 1) -fb\_opt fbdata(pass 2) -m32 -O3  
-OPT:Ofast

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## Peak Optimization Flags (Continued)

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:prefetch=0 -LNO:minvariant=off  
-WOPT:retype\_expr=on

456.hmmer: -fast -Msmartalloc=huge:448 -Mfprelaxed -Msafeptr  
-Mipa=const -Mipa=noarg -Mipa=arg -tp barcelona-64  
-Bstatic\_pgi

458.sjeng: -Mpfi(pass 1) -Mipa=arg(pass 2) -Mipa=inline:1(pass 2)  
-Mipa=noarg(pass 2) -Mipa=arg(pass 2) -fast  
-Msmartalloc=huge:448 -Mfprelaxed -tp barcelona-64  
-Bstatic\_pgi

462.libquantum: -fast -Mfprelaxed -Msmartalloc=huge:448 -Munroll=m:4  
-Mipa=const -Mipa=inline -Mipa=noarg -Bstatic\_pgi

464.h264ref: -fb\_create fbdata(pass 1) -fb\_opt fbdata(pass 2) -O3  
-LPA:prefetch=20000 -OPT:alias=disjoint -LNO:prefetch=0

C++ benchmarks:

471.omnibench: basepeak = yes

473.astar: basepeak = yes

483.xalancbmk: -Ofast -m32 -OPT:unroll\_times\_max=8  
-L/cpu2006/work/cpu2006/SmartHeap -lsmarheap

## Peak Other Flags

C benchmarks (except as noted below):

-w

400.perlbench: No flags used

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## 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.xalanbmk: 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](mailto:webmaster@spec.org).

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