



# SPEC® CINT2006 Result

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Supermicro

SPECint®\_rate2006 - NA

Motherboard H8DM3-2 AMD Opteron 2347

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.ast
- 483.xalancbmk

**Not Available**

### Hardware

CPU Name: AMD Opteron 2347  
 CPU Characteristic: 1900  
 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: 16 GB (8x 2GB, PC2-5300 CL5 ECC Reg Dual Rank)  
Disk Subsystem: 1x SATA, 250 GB, 7200 RPM  
Other Hardware: None

Other Software: glibc (Heap 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.xalanbmk	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

Stack size set to 'unlimited'  
PAGES\_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.hmmmer: -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  
-huge:840 -tp barcelona-64 -Bstatic\_pgi

C++ benchmarks:

-fastsse -Mipa=fast -Mipa=inline -Mfprelaxed -Msmartalloc=huge:448  
--zsh -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

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  
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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:alias\_type\_expr=on

456.hmmr: -fast -Msmartalloc=huge:448 -Mfprelaxed -Msafeptr  
-Mipconservative -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

459.gzip: -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 -lsmatcheap

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

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