



# SPEC® CINT2006 Result

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## Supermicro

(Test Sponsor: Advanced Micro Devices)

SPECint®\_rate2006 = Not Run

A+ Server 2021M-UR+B, AMD Opteron 2356

SPECint\_rate\_base2006 = 71.5

CPU2006 license: 49

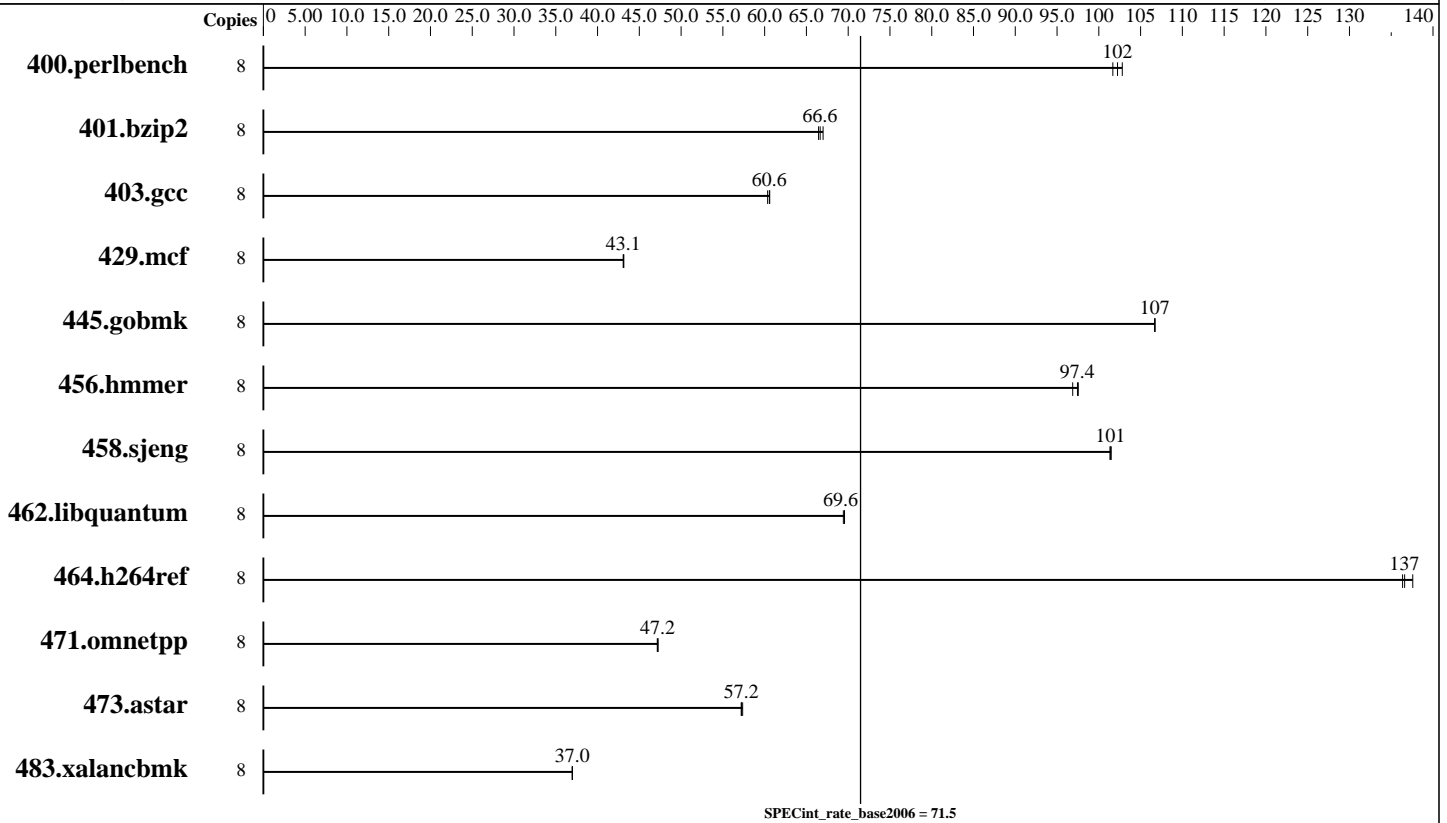
Test sponsor: Advanced Micro Devices

Tested by: Advanced Micro Devices

Test date: Apr-2008

Hardware Availability: Apr-2008

Software Availability: Mar-2008



### Hardware

CPU Name: AMD Opteron 2356  
 CPU Characteristics:  
 CPU MHz: 2300  
 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  
 Memory: 16 GB (8 x 2GB, DDR2-667 CL5 ECC Reg Dual Rank)  
 Disk Subsystem: 1 x 120 GB SATA, 7200 RPM  
 Other Hardware: None

### Software

Operating System: SuSE Linux Enterprise Server 10 (x86\_64) SP1, Kernel 2.6.16.46-0.12-smp  
 Compiler: gcc, g++ 4.3.0  
 Auto Parallel: No  
 File System: ext3  
 System State: Runlevel 3 (Full multiuser with network)  
 Base Pointers: 64-bit  
 Peak Pointers: Not Applicable  
 Other Software: None



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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	760	103	<b><u>765</u></b>	<b><u>102</u></b>	769	102							
401.bzip2	8	1152	67.0	1162	66.5	<b><u>1158</u></b>	<b><u>66.6</u></b>							
403.gcc	8	1067	60.4	1063	60.6	<b><u>1063</u></b>	<b><u>60.6</u></b>							
429.mcf	8	<b><u>1693</u></b>	<b><u>43.1</u></b>	1694	43.1	1691	43.1							
445.gobmk	8	786	107	<b><u>787</u></b>	<b><u>107</u></b>	787	107							
456.hammer	8	<b><u>766</u></b>	<b><u>97.4</u></b>	765	97.5	770	96.9							
458.sjeng	8	954	101	955	101	<b><u>955</u></b>	<b><u>101</u></b>							
462.libquantum	8	2383	69.6	<b><u>2383</u></b>	<b><u>69.6</u></b>	2388	69.4							
464.h264ref	8	<b><u>1296</u></b>	<b><u>137</u></b>	1298	136	1287	138							
471.omnetpp	8	1060	47.1	<b><u>1059</u></b>	<b><u>47.2</u></b>	1058	47.2							
473.astar	8	982	57.2	979	57.4	<b><u>981</u></b>	<b><u>57.2</u></b>							
483.xalancbmk	8	1492	37.0	<b><u>1492</u></b>	<b><u>37.0</u></b>	1493	37.0							

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

## Operating System Notes

'numactl' was used to bind copies to the cores

## Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

## 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.hammer: -DSPEC\_CPU\_LP64  
458.sjeng: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_LINUX  
464.h264ref: -DSPEC\_CPU\_LP64  
471.omnetpp: -DSPEC\_CPU\_LP64  
473.astar: -DSPEC\_CPU\_LP64

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## Base Portability Flags (Continued)

483.xalancbmk: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:

-O3 -funroll-loops -fno-strict-aliasing

C++ benchmarks:

-O3 -funroll-loops -fno-strict-aliasing

The flags file that was used to format this result can be browsed at

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090713.04.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.04.html)

You can also download the XML flags source by saving the following link:

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090713.04.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.04.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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