



# SPEC® CINT2006 Result

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Tyan

(Test Sponsor: Advanced Micro Devices)

SPECint®\_rate2006 = Not Run

Transport TX46, AMD Opteron 8356

SPECint\_rate\_base2006 = 131

CPU2006 license: 49

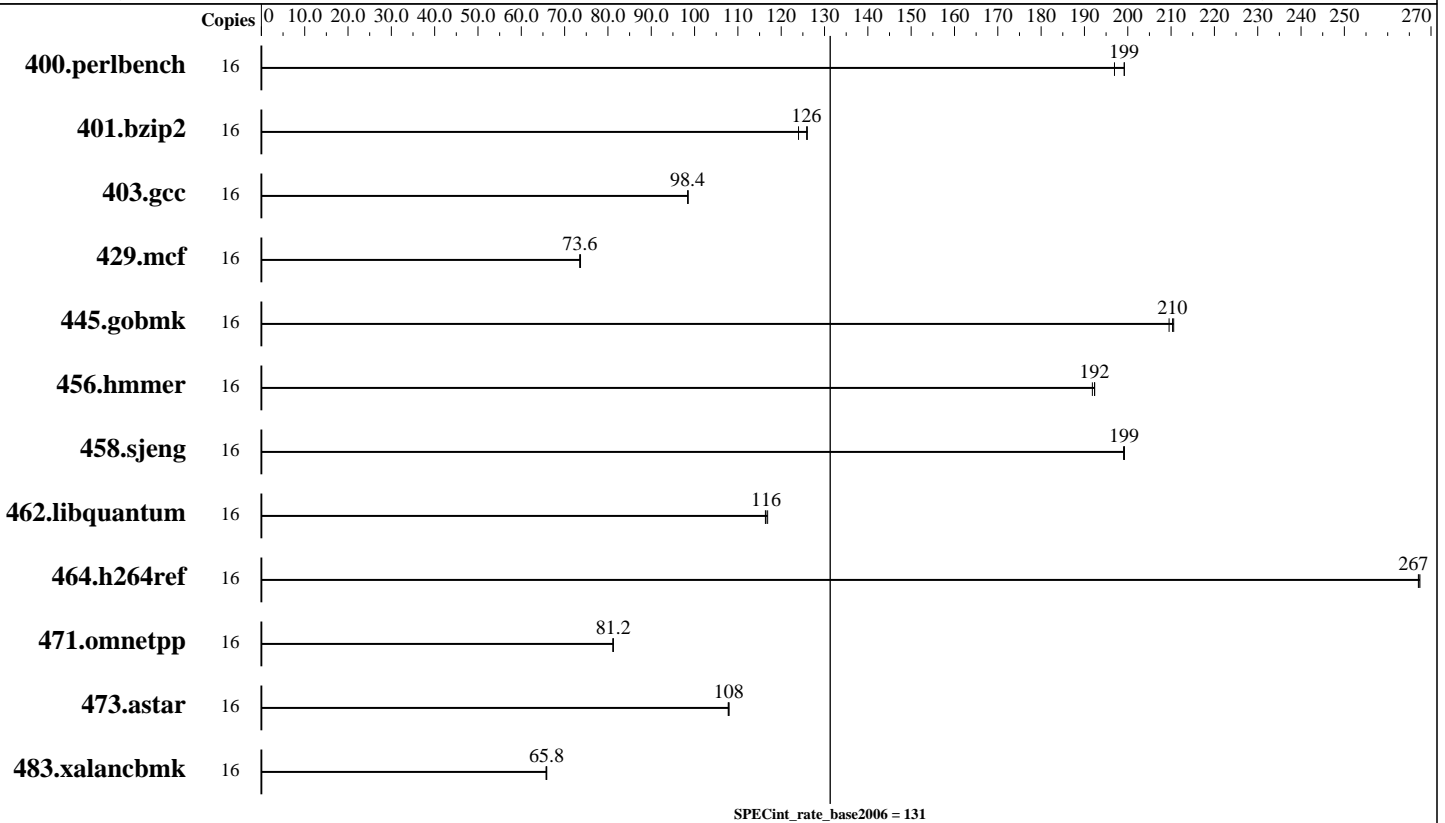
Test sponsor: Advanced Micro Devices

Tested by: Advanced Micro Devices

Test date: Apr-2008

Hardware Availability: Apr-2008

Software Availability: Mar-2008



## Hardware

CPU Name: AMD Opteron 8356  
 CPU Characteristics:  
 CPU MHz: 2300  
 FPU: Integrated  
 CPU(s) enabled: 16 cores, 4 chips, 4 cores/chip  
 CPU(s) orderable: 2,4 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: 32 GB (16 x 2GB, DDR2-667 CL5 ECC Reg Dual Rank)  
 Disk Subsystem: 1 x 250 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	16	<b>785</b>	<b>199</b>	794	197	785	199							
401.bzip2	16	1245	124	<b>1227</b>	<b>126</b>	1225	126							
403.gcc	16	1309	98.4	<b>1308</b>	<b>98.4</b>	1308	98.5							
429.mcf	16	<b>1984</b>	<b>73.6</b>	1985	73.5	1981	73.7							
445.gobmk	16	<b>798</b>	<b>210</b>	797	211	801	210							
456.hammer	16	<b>776</b>	<b>192</b>	776	192	778	192							
458.sjeng	16	<b>972</b>	<b>199</b>	973	199	972	199							
462.libquantum	16	2849	116	<b>2846</b>	<b>116</b>	2837	117							
464.h264ref	16	<b>1325</b>	<b>267</b>	1324	267	1326	267							
471.omnetpp	16	1231	81.2	<b>1231</b>	<b>81.2</b>	1232	81.2							
473.astar	16	<b>1041</b>	<b>108</b>	1042	108	1040	108							
483.xalancbmk	16	1680	65.7	1676	65.9	<b>1677</b>	<b>65.8</b>							

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.20090713.05.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.05.html)

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090713.05.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.05.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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