



# SPEC<sup>®</sup> CINT2006 Result

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## Tyan

(Test Sponsor: Advanced Micro Devices)

## SPECint<sup>®</sup>\_rate2006 = --

### Tyan Thunder K8SD Pro (S2882-D) (AMD Opteron 275)

## SPECint\_rate\_base2006 = 33.8

CPU2006 license: 49

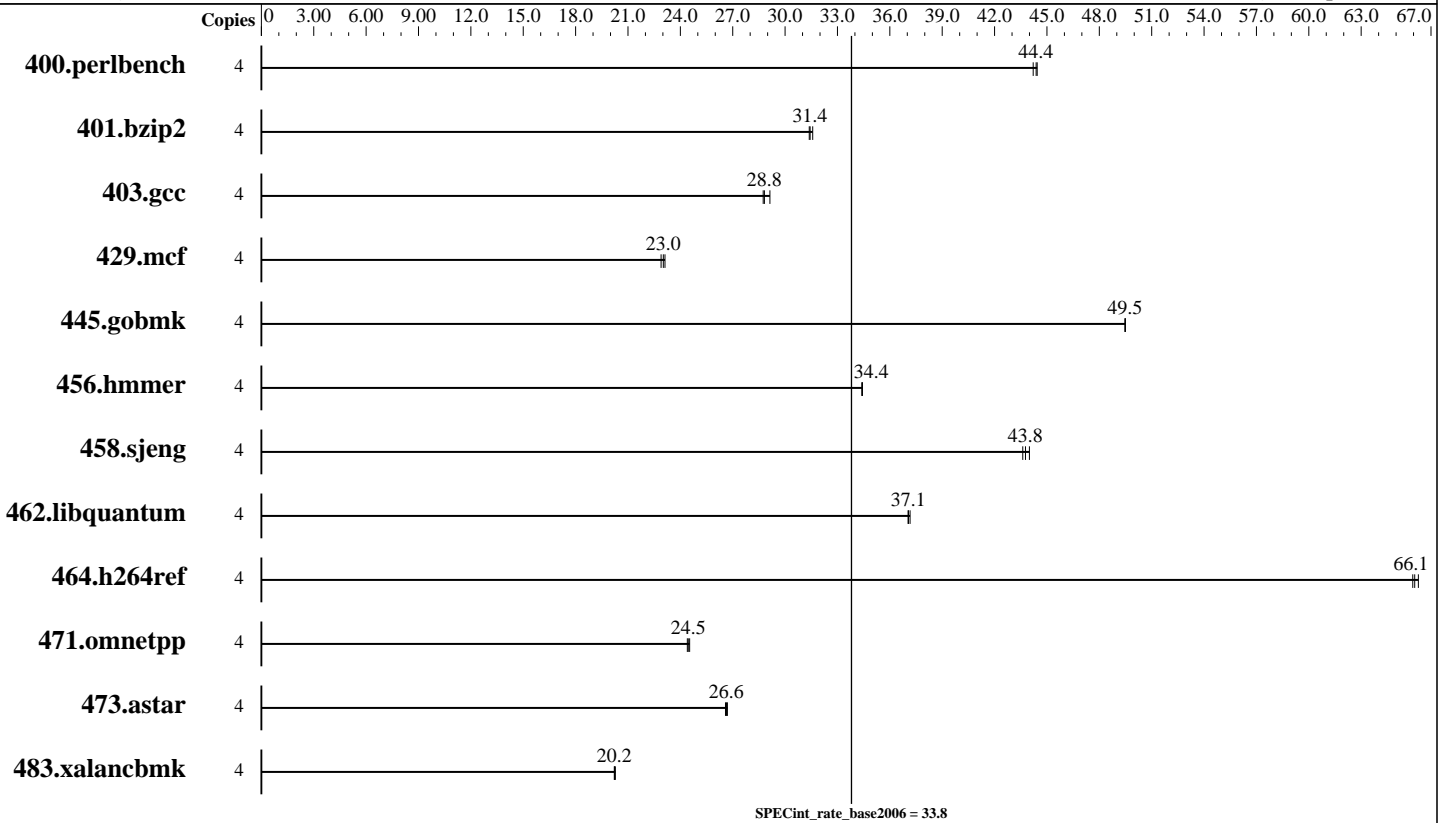
Test sponsor: Advanced Micro Devices

Tested by: Advanced Micro Devices

Test date: Apr-2006

Hardware Availability: May-2005

Software Availability: Apr-2006



### Hardware

CPU Name: AMD Opteron 275  
 CPU Characteristics:  
 CPU MHz: 2200  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 64 KB I + 64 KB D on chip per core  
 Secondary Cache: 1 MB I+D on chip per core  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (8 x 1 GB DDR400 CL3 Reg)  
 Disk Subsystem: 250GB SATA  
 Other Hardware: None

### Software

Operating System: SUSE Linux 10.1 (for AMD64)  
 Compiler: gcc , g++ 4.1.0 (for AMD64)  
 Auto Parallel: No  
 File System: ext3  
 System State: runlevel 3  
 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	4	879	44.4	884	44.2	<u>881</u>	<u>44.4</u>							
401.bzip2	4	1222	31.6	1230	31.4	<u>1228</u>	<u>31.4</u>							
403.gcc	4	1105	29.1	1120	28.7	<u>1117</u>	<u>28.8</u>							
429.mcf	4	<u>1584</u>	<u>23.0</u>	1593	22.9	1578	23.1							
445.gobmk	4	848	49.5	848	49.5	<u>848</u>	<u>49.5</u>							
456.hmmer	4	1084	34.4	1085	34.4	<u>1084</u>	<u>34.4</u>							
458.sjeng	4	1100	44.0	1110	43.6	<u>1106</u>	<u>43.8</u>							
462.libquantum	4	2237	37.0	2230	37.2	<u>2236</u>	<u>37.1</u>							
464.h264ref	4	1336	66.3	<u>1340</u>	<u>66.1</u>	1342	66.0							
471.omnetpp	4	1019	24.5	1025	24.4	<u>1022</u>	<u>24.5</u>							
473.astar	4	1052	26.7	<u>1054</u>	<u>26.6</u>	1056	26.6							
483.xalancbmk	4	1365	20.2	<u>1365</u>	<u>20.2</u>	1361	20.3							

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

## General Notes

Tested by Advanced Micro Devices

The system can be assembled using an ATX power supply such as an Antec true 550, and a case such as the Chenbro SR105

Taskset utility used to bind process to 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.hmmer: -DSPEC\_CPU\_LP64

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info@spec.org

http://www.spec.org/



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**Software Availability:** Apr-2006

## Base Portability Flags (Continued)

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

## Base Optimization Flags

C benchmarks:

-O3 -fno-inline-functions -funroll-loops

C++ benchmarks:

-O3 -funroll-loops

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.04.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.04.html)

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.04.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.04.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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