



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

## Advanced Micro Devices

Tyan Thunder K9QE (S4985) Motherboard, AMD Opteron (TM) 2220SE

SPECint\_rate2000 = --

SPECint\_rate\_base2000 = 68.8

SPEC license #: 49 | Tested by: AMD Austin, TX | Test date: Aug-2006 | Hardware Avail: Sep-2006 | Software Avail: Jul-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	93.0	69.8			
175.vpr	4	121	53.7			
176.gcc	4	63.9	79.9			
181.mcf	4	274	30.5			
186.crafty	4	40.5	115			
197.parser	4	165	50.5			
252.eon	4	49.8	121			
253.perlbnk	4	106	78.5			
254.gap	4	75.9	67.2			
255.vortex	4	102	86.8			
256.bzip2	4	115	60.5			
300.twolf	4	220	63.3			

### Hardware

CPU: AMD Opteron (TM) 2220SE  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2,4 chips  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD on chip per core  
 Secondary Cache: 1024KB(I+D) on chip per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8 x 1GB DDR2-667 CL5 ECC Reg  
 Disk Subsystem: 1 X 74GB Western Digital WD740 SATA 10Krpm  
 Other Hardware: None

### Software

Operating System: SuSE Linux 10.1 for x86\_64  
 Compiler: SuSE gcc, g++ 4.1  
 File System: Linux/ext3  
 System State: Multi-user SuSE Run level 3

## Notes/Tuning Information

Tested by Advanced Micro Devices

Portability:

255.vortex= CPORTABILITY=-DSPEC\_CPU2000\_LP64

186.crafty: CPORTABILITY=-DLINUX\_i386

252.eon: CXXPORTABILITY=-DHAS\_ERRLIST -DSPEC\_CPU2000\_LP64

253.perlbnk: CPORTABILITY=-DSPEC\_CPU2000\_LINUX\_I386 -DSPEC\_CPU2000\_NEED\_BOOL  
-DSPEC\_CPU2000\_LP64

254.gap: CPORTABILITY=-DSYS\_IS\_USG -DSYS\_HAS\_IOCTL\_PROTO -DSYS\_HAS\_TIME\_PROTO  
-DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO  
-DSPEC\_CPU2000\_LP64

Baseline C: gcc -O3 -fno-strict-aliasing

Baseline C++: g++ -O3

Binaries are 64 bit running on a 64 bit OS

Basic ECC Enabled in BIOS.

The system can be built using an SSI EEB form-factor

case, and a Zippy/Emacs 700 watt PSL-6701P Power Supply