



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

**Advanced Micro Devices**  
ASUS A8N-SLI Deluxe, AMD Athlon (TM) 64 FX-57

SPECint2000 = **1929**  
SPECint\_base2000 = **1745**

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Jun-2005 | Hardware Avail: Jun-2005 | Software Avail: Aug-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	82.7	1693	82.7	1693	
175.vpr	1400	99.3	1409	96.9	1444	
176.gcc	1100	57.3	1920	57.0	1929	
181.mcf	1800	211	854	136	1320	
186.crafty	1000	42.1	2374	41.5	2410	
197.parser	1800	137	1311	114	1582	
252.eon	1300	48.8	2662	44.6	2914	
253.perlbnk	1800	95.1	1893	84.1	2139	
254.gap	1100	60.3	1825	59.3	1855	
255.vortex	1900	67.7	2805	62.0	3063	
256.bzip2	1500	95.1	1578	95.1	1578	
300.twolf	3000	187	1607	150	2006	

### Hardware

CPU: AMD Athlon (TM) 64 FX-57  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD on chip  
 Secondary Cache: 1024KB (I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2x512 MB, PC3200 DDR SDRAM CL2.0  
 Disk Subsystem: IDE, Western Digital WD2500  
 Other Hardware: None

### Software

Operating System: SuSE Linux Enterprise Server 9 (SP2) for AMD64  
 Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.1  
 File System: Linux/ext3  
 System State: Multi-user, run level 3

## Notes/Tuning Information

+FDO: PASS1= -fb\_create fbdata PASS2= -fb\_opt fbdata

#### Baseline optimization flags:

C programs: -Ofast +FDO  
 C++ programs: -Ofast +FDO

#### Portability Flags:

176.gcc: srcalt 64bitgcc  
 186.crafty: -DLINUX\_i386  
 252.eon: -DHAS\_ERRLIST -DSPEC\_CPU2000\_LP64 srcalt fmax\_errno  
 253.perlbnk: -DSPEC\_CPU2000\_LINUX\_I386 -DSPEC\_CPU2000\_NEED\_BOOL  
 -DSPEC\_CPU2000\_GLIBC22 -DSPEC\_CPU2000\_LP64  
 254.gap: -DSYS\_IS\_USG -DSYS\_HAS\_IOCTL\_PROTO -DSYS\_HAS\_TIME\_PROTO  
 -DSYS\_HAS\_SIGNAL\_PROTO -DSYS\_HAS\_ANSI -DSYS\_HAS\_CALLOC\_PROTO  
 -DSPEC\_CPU2000\_LP64  
 255.vortex: -DSPEC\_CPU2000\_LP64 srcalt closed\_files

#### Peak Tuning:

164.gzip: basepeak = true



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Advanced Micro Devices  
ASUS A8N-SLI Deluxe, AMD Athlon (TM) 64 FX-57

SPECint2000 = 1929  
SPECint\_base2000 = 1745

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Jun-2005 | Hardware Avail: Jun-2005 | Software Avail: Aug-2005

## Notes/Tuning Information (Continued)

```

175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000
         -INLINE:aggressive=on -IPA:plimit=10000:callee_limit=5000
         +FDO
176.gcc: -O3 -ipa -OPT:goto=off +FDO
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -O3 -OPT:goto=off +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -OPT:treeheight=on
         -TENV:X=4:frame_pointer=off -fno-exceptions
         -LNO:fu=10:full_unroll_outer=on -IPA:plimit=4000 +FDO
253.perlbnk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
             -fno-math-errno -IPA:plimit=10000 +FDO
254.gap: -Ofast -WOPT:aggstr=off +FDO
255.vortex: -Ofast -OPT:goto=off -IPA:plimit=1800 -CG:p2align=on
            +FDO
256.bzip2: basepeak = true
300.twolf: -O2 -CG:gcm=off:p2align_freq=100000
           -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
           -WOPT:mem_opnds=on -m32 +FDO

```

The tested system can be assembled using a standard ATX form factor, an Antec True 550 EPS12V power supply, and a PCI or PCIe graphics card.

Memory timings manually set in BIOS: CAS=2, TRCD=2, TRAS=5, TRP=2

Memory used is Corsair CMX512-3200XLP0 configured in dual channel mode.

BIOS version V6.00PG