



# CINT2000 Result

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## Advanced Micro Devices

MSI K8N Neo2 Platinum Motherboard, AMD Athlon (TM) 64 FX-55

SPECint2000 = 1735

SPECint\_base2000 = 1583

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Oct-2004 Hardware Avail: Oct-2004 Software Avail: Aug-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	87.8	1595	87.8	1594	
175.vpr	1400	106	1318	105	1338	
176.gcc	1100	60.5	1819	60.5	1819	
181.mcf	1800	233	773	150	1204	
186.crafty	1000	43.9	2275	43.7	2290	
197.parser	1800	140	1288	128	1403	
252.eon	1300	58.2	2232	48.6	2675	
253.perlbnk	1800	108	1666	101	1774	
254.gap	1100	69.0	1594	69.0	1594	
255.vortex	1900	83.4	2279	77.4	2453	
256.bzip2	1500	104	1441	104	1441	
300.twolf	3000	204	1472	162	1848	

### Hardware

CPU: AMD Athlon (TM) 64 FX-55 (ADAFX55DEI5AS)  
CPU MHz: 2600  
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 WD1200  
Other Hardware: None

### Software

Operating System: SuSE Linux Enterprise Sever for AMD64 (SP3)  
Compiler: PathScale EKO Compiler Suite, Release 1.3  
File System: Linux/ext3  
System State: Multi-user SuSE Run level 3

## Notes/Tuning Information

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

Baseline optimization flags:

C programs: -O3 -ipa +FDO  
C++ programs: -Ofast +FDO

Portability Flags:

175.vpr: -DSPEC\_CPU2000  
181.mcf: -DWANT\_STDC\_PROTO  
186.crafty: -DLINUX\_i386 -DSPEC\_CPU2000  
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  
300.twolf: -DSPEC\_CPU2000 -DHAVE\_SIGNED\_CHAR



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## Notes/Tuning Information (Continued)

Peak Tuning:

164.gzip: -Ofast +FDO

175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align\_freq=500000

-INLINE:aggressive=on -IPA:space=300:plimit=10000:callee\_limit=5000:linear=on  
+FDO

176.gcc: basepeak = true

181.mcf: -O3 -ipa -IPA:field\_reorder=on -m32 +FDO

186.crafty: -Ofast +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=1

+FDO -IPA:plimit=4000:pu\_reorder=1

253.perlbnk: -O3 -ipa -TENV:X=3 +FDO -IPA:min\_hotness=5:plimit=20000

254.gap: basepeak = true

255.vortex: -Ofast -IPA:space=70:plimit=3000

-OPT:goto=off:unroll\_analysis=off:unroll\_size=0:unroll\_times\_max=8

-LNO:opt=0 -TENV:X=4

+FDO

256.bzip2: basepeak = true

300.twolf: -O2 -OPT:unroll\_times\_max=8:unroll\_size=256:alias=disjoint:Ofast

-CG:gcm=off:p2align\_freq=100000 -WOPT:mem\_opnds=on -m32

The tested system can be assembled using an ATX case such as the Antec P160, a 550W power supply such as the Antec True Power 550, and a PCI or AGP video card. BIOS rev. v1.3

High Performance defaults set in BIOS

Memroy timings manually set in BIOS: CAS=2.0, TRCD=2, TRAS=5, TRP=2

Dynamic Overclocking Disabled in BIOS

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