



# CINT2000 Result

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**Einix  
A4800**

SPECint2000 = --  
SPECint\_base2000 = 980

SPEC license #: 49 Tested by: AMD Austin TX Test date: Apr-2003 Hardware Avail: Jul-2003 Software Avail: May-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	500 1000 1500 2000			
164.gzip	1400	169	826			.....			
175.vpr	1400	162	865			.....			
176.gcc	1100	89.4	1231			.....			
181.mcf	1800	265	679			.....			
186.crafty	1000	90.2	1108			.....			
197.parser	1800	188	957			.....			
252.eon	1300	130	997			.....			
253.perlbnk	1800	157	1145			.....			
254.gap	1100	119	925			.....			
255.vortex	1900	167	1139			.....			
256.bzip2	1500	165	908			.....			
300.twolf	3000	265	1133			.....			

### Hardware

CPU: AMD Opteron 144, 1.8 GHz  
CPU MHz: 1800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1,2,4  
Parallel: No  
Primary Cache: 64KBI + 64KBD on chip  
Secondary Cache: 1 MB(I+D)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x512MB PC2700 DDR ECC Registered SDRAM CL2.5  
Disk Subsystem: IDE 7200 RPM  
Other Hardware: None

### Software

Operating System: SuSE Linux Enterprise Server 8 for AMD64  
Compiler: SuSE optional package gcc33 using -m32 to generate 32 bit code  
File System: ext2  
System State: Run level 3

## Notes/Tuning Information

+FD0: PASS1=-fprofile-arcs PASS2=-fbranch-probabilities

Portability:

186.crafty: EXTRA\_CFLAGS=-DLINUX\_i386

252.eon: EXTRA\_CXXFLAGS=-DHAS\_ERRLIST -DFMAX\_IS\_DOUBLE

253.perlbnk: EXTRA\_CFLAGS=-DSPEC\_CPU2000\_LINUX\_I386 -DSPEC\_CPU2000\_NEED\_BOOL  
-DSPEC\_CPU2000\_GLIBC22

254.gap: EXTRA\_CFLAGS=-DSYS\_IS\_USG -DSYS\_HAS\_IOCTL\_PROTO -DSYS\_HAS\_TIME\_PROTO  
-DSYS\_HAS\_SIGNAL\_PROTO -DSYS\_HAS\_ANSI -DSYS\_HAS\_CALLOC\_PROTO

Base C flags: -O3 -funroll-all-loops -m32 +FD0

Base C++ flags: -O3 -funroll-all-loops -m32 -ffast-math