



# CINT2000 Result

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Einix  
A4800

SPECint2000 = 1100  
SPECint\_base2000 = 1062

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	
164.gzip	1400	141	996	139	1004	
175.vpr	1400	154	908	147	954	
176.gcc	1100	96.8	1136	87.7	1254	
181.mcf	1800	271	664	267	674	
186.crafty	1000	83.8	1193	81.7	1224	
197.parser	1800	179	1007	178	1013	
252.eon	1300	112	1165	108	1203	
253.perlbmk	1800	151	1192	144	1248	
254.gap	1100	93.5	1177	91.8	1199	
255.vortex	1900	133	1430	129	1478	
256.bzip2	1500	173	870	158	951	
300.twolf	3000	243	1233	243	1233	

### 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: 1024KB(I+D) on chip  
 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 x86  
 Compiler: Intel C/C++ 7.0 build 20021212Z  
 File System: ext2  
 System State: Run level 3

## Notes/Tuning Information

```
+FDO: PASS1=-prof_gen PASS2=-prof_use
Portability:
186.crafty: CPORTABILITY=-DLINUX_i386
252.eon: CXXPORTABILITY=-DHAS_ERRLIST
253.perlbmk: CPORTABILITY=-DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
           -DSPEC_CPU2000_GLIBC22
254.gap: CPORTABILITY=-DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
          -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO

Baseline C: +FDO -O3 -xW -ipo
Baseline C++: +FDO -O3 -xW -ipo
Peak tuning:
164.gzip: +FDO -O3 -axK -ipo -nolib_inline
175.vpr: +FDO -xK -ipo -fno-alias -Qoption,f,-ip_ninl_max_stats=6000
          -Qoption,f,-ip_ninl_max_total_stats=10000
176.gcc: +FDO -O3 -xW -ipo -nolib_inline -Qoption,f,-ip_ninl_max_stats=3000
          -Qoption,f,-ip_ninl_max_total_stats=5500
181.mcf: +FDO -ipo -fno-alias
186.crafty: +FDO -O3 -xK -ipo -fno-alias -fshort-enums
197.parser: +FDO -O3 -axW -ipo -fno-alias
252.eon: +FDO -O3 -xW -ipo -Qoption,f,-ip_ninl_max_stats=2000
```



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## Notes/Tuning Information (Continued)

```
-Qoption,f,-ip_ninl_max_total_stats=4500
253.perlbnk: +FDO -O3 -xK -ipo -unroll3 -Qoption,f,-ip_ninl_max_stats=7000
              -Qoption,f,-ip_ninl_max_total_stats=9500 -static
254.gap:      +FDO -O3 -xW -ipo -Qoption,f,-ip_ninl_max_stats=2000
              -Qoption,f,-ip_ninl_max_total_stats=4500
255.vortex:   +FDO -O3 -xW -ipo -Qoption,f,-ip_ninl_max_stats=3000
              -Qoption,f,-ip_ninl_max_total_stats=5500
256.bzip2:    +FDO
300.twolf:    basepeak=1
ONESTEP is used for all base and peak runs
```