



CINT2000 Result

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Einix A4800

SPECint2000 = 1108
SPECint_base2000 = 1081

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	995	140	1003	
175.vpr	1400	150	934	143	978	
176.gcc	1100	93.3	1179	92.1	1194	
181.mcf	1800	246	733	247	728	
186.crafty	1000	83.4	1199	81.4	1228	
197.parser	1800	177	1017	177	1015	
252.eon	1300	113	1152	106	1227	
253.perlbmk	1800	151	1190	143	1257	
254.gap	1100	92.7	1186	94.5	1164	
255.vortex	1900	131	1453	127	1494	
256.bzip2	1500	169	887	155	969	
300.twolf	3000	242	1241	242	1241	

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 AMD64
 Compiler: Intel C/C++ 7.0 build 20021212Z
 File System: ext2
 System State: Run level 3

Notes/Tuning Information

The binaries were built on SuSE Linux Professional 8.1 running on an Opteron system

+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

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Notes/Tuning Information (Continued)

```
252.eon:      +FDO -O3 -xW -ipo -Qoption,f,-ip_ninl_max_stats=2000
              -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
```