



CINT2000 Result

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**Einix
A4800**

SPECint_rate2000 = 12.8

SPECint_rate_base2000 = 12.3

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

		Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
18	16	14	12	10	8	6	4	2
		164.gzip	1	141	11.6	1	139	11.6
		175.vpr	1	154	10.5	1	147	11.1
		176.gcc	1	96.8	13.2	1	87.7	14.6
		181.mcf	1	271	7.70	1	267	7.81
		186.crafty	1	83.8	13.8	1	81.7	14.2
		197.parser	1	179	11.7	1	178	11.8
		252.eon	1	112	13.5	1	108	14.0
		253.perlbnk	1	151	13.8	1	144	14.5
		254.gap	1	93.5	13.6	1	91.8	13.9
		255.vortex	1	133	16.6	1	129	17.1
		256.bzip2	1	173	10.1	1	158	11.0
		300.twolf	1	243	14.3	1	243	14.3

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.perlbnk: 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)

```
253.perlbnk: -Qoption,f,-ip_ninl_max_total_stats=4500
              +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
```