



CINT2000 Result

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**Einix
A4800**

SPECint_rate2000 = 23.0
SPECint_rate_base2000 = 21.6

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
164.gzip	2	145	22.4	2	142	22.9
175.vpr	2	175	18.6	2	166	19.6
176.gcc	2	124	20.7	2	96.3	26.5
181.mcf	2	470	8.89	2	418	9.98
186.crafty	2	84.1	27.6	2	81.7	28.4
197.parser	2	203	20.5	2	197	21.2
252.eon	2	112	27.0	2	107	28.3
253.perlbnk	2	161	25.9	2	151	27.7
254.gap	2	106	24.1	2	101	25.2
255.vortex	2	148	29.8	2	143	30.8
256.bzip2	2	185	18.8	2	178	19.6
300.twolf	2	270	25.8	2	270	25.8

Hardware

CPU: AMD Opteron 244, 1.8 GHz
CPU MHz: 1800
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 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: 8x512MB PC2700 DDR ECC Reg 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)

```
-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
Uniprocessor Kernel recompiled with SMP
```