# CINT2000 Result

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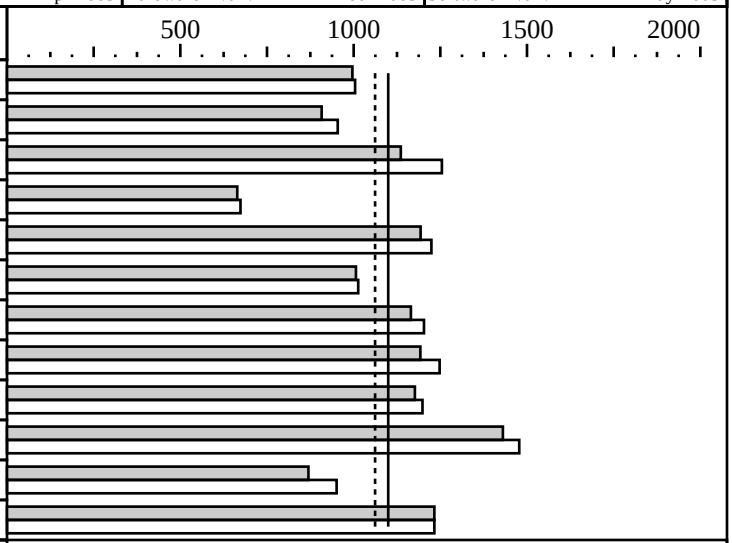
Einux
A4800

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.perlbmk:    +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          -ipo -fno-alias    -unroll1
    300.twolf:      basepeak=1
ONESTEP is used for all base and peak runs
```