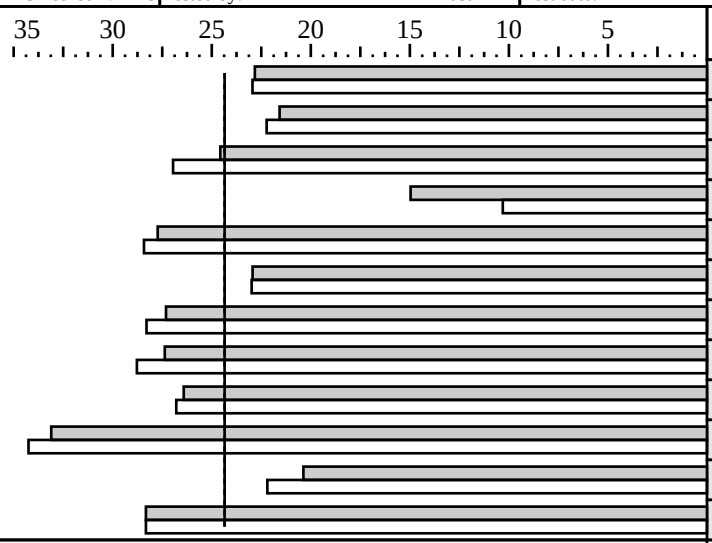
CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Einux
A4800

SPECint_rate2000 = 24.4
SPECint_rate_base2000 = 24.3

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
164.gzip	2	142	22.8	2	142	22.9
175.vpr	2	151	21.6	2	146	22.2
176.gcc	2	104	24.6	2	94.7	27.0
181.mcf	2	279	15.0	2	405	10.3
186.crafty	2	83.7	27.7	2	81.6	28.4
197.parser	2	182	22.9	2	182	23.0
252.eon	2	110	27.3	2	107	28.3
253.perlbmk	2	153	27.4	2	145	28.8
254.gap	2	96.6	26.4	2	95.3	26.8
255.vortex	2	133	33.1	2	129	34.2
256.bzip2	2	171	20.4	2	157	22.2
300.twolf	2	246	28.3	2	246	28.3

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 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
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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.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
Uniprocessor Kernel recompiled with SMP and NUMA support
```