CINT2000 Result

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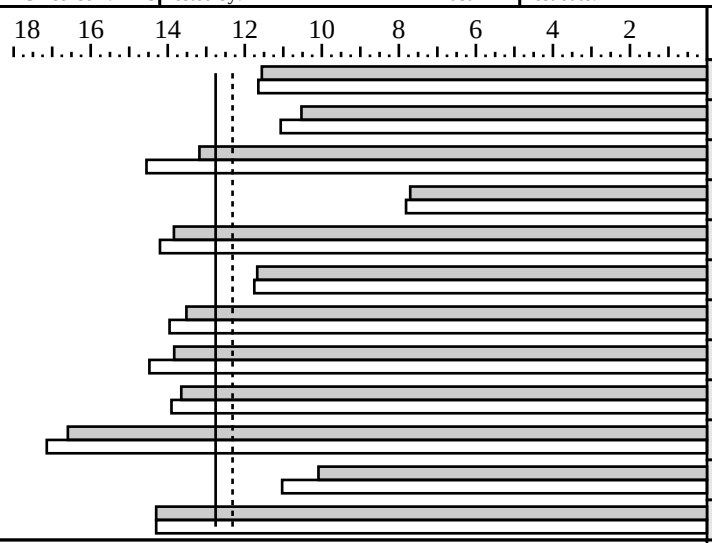
Einux
A4800

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
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.perlbmk	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.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
```