CINT2000 Result

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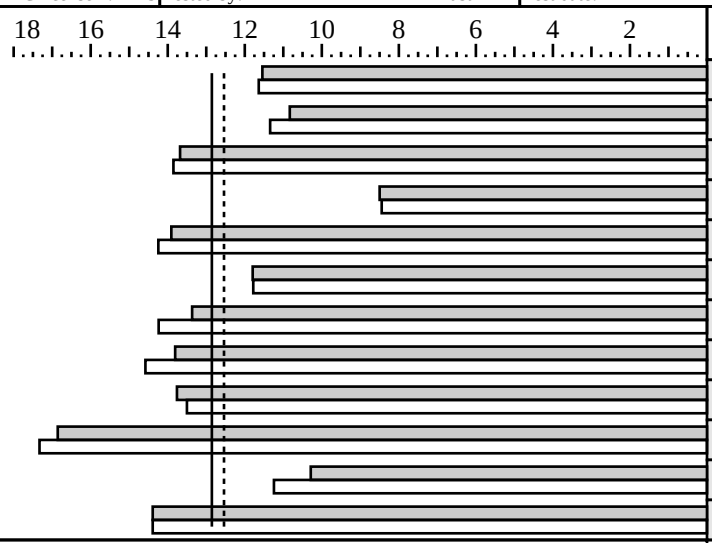
Einux
A4800

SPECint_rate2000 = 12.9

SPECint_rate_base2000 = 12.5

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	11.5	1	140	11.6
175.vpr	1	150	10.8	1	143	11.3
176.gcc	1	93.3	13.7	1	92.1	13.9
181.mcf	1	246	8.50	1	247	8.45
186.crafty	1	83.4	13.9	1	81.4	14.2
197.parser	1	177	11.8	1	177	11.8
252.eon	1	113	13.4	1	106	14.2
253.perlbmk	1	151	13.8	1	143	14.6
254.gap	1	92.7	13.8	1	94.5	13.5
255.vortex	1	131	16.9	1	127	17.3
256.bzip2	1	169	10.3	1	155	11.2
300.twolf	1	242	14.4	1	242	14.4

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 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
```

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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
```