



CINT2000 Result

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**Einix
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
35	30	25	20	15	10	5					
					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.perlbnk	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.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



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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.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 and NUMA support