CINT2000 Result

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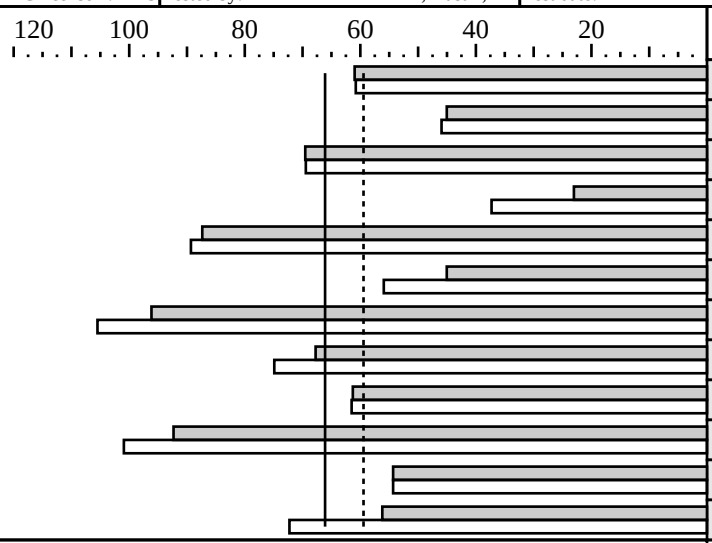
Advanced Micro Devices

Pogo Linux PerformanceWare 3566, AMD Opteron (TM) 875

SPECint_rate2000 = 66.1

SPECint_rate_base2000 = 59.4

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Apr-2005 | Hardware Avail: May-2005 | Software Avail: May-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	107	61.0	4	107	60.8
175.vpr	4	144	45.0	4	141	45.9
176.gcc	4	73.4	69.5	4	73.5	69.4
181.mcf	4	363	23.0	4	224	37.3
186.crafty	4	53.1	87.4	4	51.9	89.3
197.parser	4	185	45.0	4	149	55.9
252.eon	4	62.7	96.1	4	57.2	105
253.perlbmk	4	123	67.7	4	112	74.9
254.gap	4	83.3	61.3	4	83.0	61.5
255.vortex	4	95.5	92.3	4	87.4	101
256.bzip2	4	128	54.3	4	128	54.3
300.twolf	4	248	56.2	4	193	72.3

Hardware

CPU:	AMD Opteron (TM) 875
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1-4
Parallel:	No
Primary Cache:	64KBI + 64KBD/core
Secondary Cache:	1024KB (I+D)/core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8x1024 MB PC3200 CL3.0 ECC Reg
Disk Subsystem:	SCSI, Seagate Cheetah Ultra320 ST373307LC, 10000 RPM
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 9 for AMD64 SP1, kernel-smp-2.6.5-7.151.x86_64.rpm
Compiler:	PathScale EKOPath Compiler Suite, Release 2.0
File System:	Linux/ext3
System State:	Multi-user, run level 3

Notes/Tuning Information

```
Tested by Advanced Micro Devices

 +FDO: PASS1= -fb_create fbdata  PASS2= -fb_opt fbdata

 Baseline optimization flags:
   C programs:       -Ofast +FDO
   C++ programs:     -Ofast +FDO

 Portability Flags:
   176.gcc:      srcalt 64bitgcc
   186.crafty:  -DLINUX_i386
   252.eon:     -DHAS_ERRLIST -DSPEC_CPU2000_LP64 srcalt fmax_errno
   253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
                -DSPEC_CPU2000_GLIBC22 -DSPEC_CPU2000_LP64
   254.gap:     -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
                -DSYS_HAS_SIGNAL_PROTO  -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
                -DSPEC_CPU2000_LP64
   255.vortex:  -DSPEC_CPU2000_LP64 srcalt closed_files
```

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Notes/Tuning Information (Continued)

```
Peak Tuning:
164.gzip:  -O3 -ipa -m3dnow -WOPT:val=0 +FDO
175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000
         -INLINE:aggressive=on -IPA:space=300:plimit=10000:callee_limit=5000:linear=on
         +FDO
176.gcc: -O3 -ipa -OPT:goto=off +FDO
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty:  -O3 -OPT:goto=off +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -OPT:treeheight=on
         -TENV:X=4:frame_pointer=off -fno-exceptions
         -LNO:fu=10:full_unroll_outer=on -IPA:plimit=4000 +FDO
253.perlbmk: -Ofast -OPT:transform_to_memlib=off -IPA:plimit=10000
254.gap:     -Ofast -WOPT:aggstr=0 +FDO
255.vortex: -Ofast -OPT:goto=off -IPA:plimit=1800 -CG:p2align=on
            +FDO
256.bzip2: basepeak = true
300.twolf: -O2 -CG:gcm=off:p2align_freq=100000
           -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
           -WOPT:mem_opnds=on -m32 +FDO
Bios Rev 2.33.1.1
All memory slots populated on all CPU(s).
Taskset utility used to bind CPU(s) to processes.
```