CINT2000 Result

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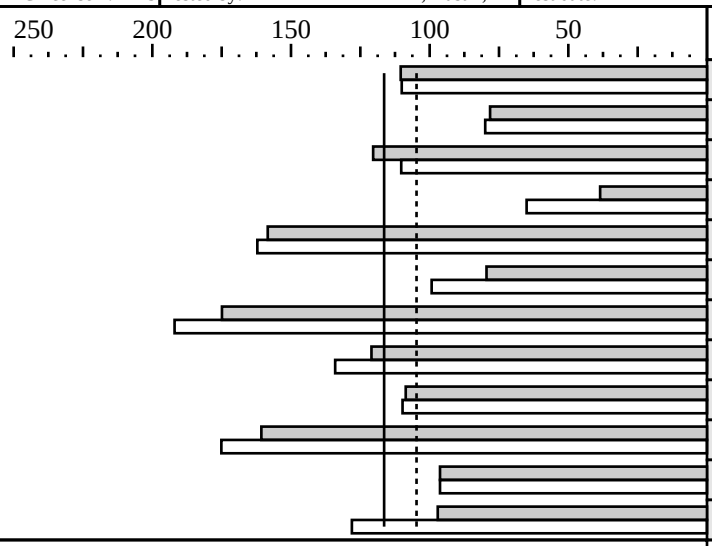
Advanced Micro Devices

Pogo Linux PerformanceWare 3566, AMD Opteron (TM) 870

SPECint_rate2000 = 116

SPECint_rate_base2000 = 105

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	8	118	110	8	118	110
175.vpr	8	166	78.2	8	162	80.0
176.gcc	8	84.8	120	8	92.6	110
181.mcf	8	434	38.5	8	257	65.0
186.crafty	8	58.6	158	8	57.2	162
197.parser	8	210	79.5	8	168	99.3
252.eon	8	69.0	175	8	62.8	192
253.perlbmk	8	138	121	8	125	134
254.gap	8	94.0	109	8	93.0	110
255.vortex	8	110	161	8	101	175
256.bzip2	8	145	96.3	8	145	96.3
300.twolf	8	287	97.1	8	217	128

Hardware

CPU:	AMD Opteron (TM) 870
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 4 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:	16x1024 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

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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.
```