



CINT2000 Result

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Advanced Micro Devices

Pogo Linux PerformanceWare 3566, AMD Opteron (TM) 870

SPECint_rate2000 = 60.6

SPECint_rate_base2000 = 55.0

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	117	55.6	4	117	55.4
175.vpr	4	154	42.3	4	150	43.2
176.gcc	4	81.5	62.6	4	88.5	57.7
181.mcf	4	371	22.5	4	232	36.1
186.crafty	4	58.4	79.4	4	57.1	81.2
197.parser	4	199	42.0	4	162	51.4
252.eon	4	69.0	87.5	4	62.9	95.9
253.perlbnk	4	135	61.9	4	121	68.8
254.gap	4	90.4	56.5	4	89.3	57.1
255.vortex	4	103	85.3	4	94.6	93.2
256.bzip2	4	138	50.5	4	138	50.5
300.twolf	4	262	53.0	4	210	66.4

Hardware

CPU: AMD Opteron (TM) 870
 CPU MHz: 2000
 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.perlbnk: -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.perlbnk: -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.