



CINT2000 Result

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Advanced Micro Devices

Pogo Linux PerformanceWare 3566, AMD Opteron (TM) 865

SPECint_rate2000 = 106

SPECint_rate_base2000 = 95.1

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	131	99.5	8	131	99.2
175.vpr	8	181	71.9	8	177	73.2
176.gcc	8	95.2	107	8	95.6	107
181.mcf	8	463	36.0	8	273	61.2
186.crafty	8	65.0	143	8	63.6	146
197.parser	8	230	72.5	8	185	90.1
252.eon	8	76.7	157	8	69.9	173
253.perlbnk	8	153	109	8	138	121
254.gap	8	103	99.2	8	101	101
255.vortex	8	121	146	8	111	159
256.bzip2	8	159	87.5	8	159	87.5
300.twolf	8	317	87.8	8	244	114

Hardware

CPU: AMD Opteron (TM) 865
 CPU MHz: 1800
 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

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.