



CINT2000 Result

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Advanced Micro Devices
TYAN Tomcat K8E (S2865), AMD Opteron(TM) 185

SPECint2000 = 1838
SPECint_base2000 = 1656

SPEC license #: 49 Tested by: AMD Austin, Texas Test date: Feb-2006 Hardware Avail: Mar-2006 Software Avail: Nov-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	88.9	1575	88.6	1581	[Bar chart showing ratio bars for 164.gzip]			
175.vpr	1400	105	1334	104	1348	[Bar chart showing ratio bars for 175.vpr]			
176.gcc	1100	60.6	1817	61.6	1786	[Bar chart showing ratio bars for 176.gcc]			
181.mcf	1800	225	801	143	1256	[Bar chart showing ratio bars for 181.mcf]			
186.crafty	1000	44.0	2275	42.9	2329	[Bar chart showing ratio bars for 186.crafty]			
197.parser	1800	146	1229	118	1529	[Bar chart showing ratio bars for 197.parser]			
252.eon	1300	48.8	2665	41.9	3104	[Bar chart showing ratio bars for 252.eon]			
253.perlbnk	1800	103	1746	90.0	2001	[Bar chart showing ratio bars for 253.perlbnk]			
254.gap	1100	63.0	1747	63.0	1747	[Bar chart showing ratio bars for 254.gap]			
255.vortex	1900	71.0	2676	65.6	2898	[Bar chart showing ratio bars for 255.vortex]			
256.bzip2	1500	99.4	1509	99.4	1509	[Bar chart showing ratio bars for 256.bzip2]			
300.twolf	3000	198	1514	163	1836	[Bar chart showing ratio bars for 300.twolf]			

Hardware

CPU: AMD Opteron(TM) 185 (939-pin)
CPU MHz: 2600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
CPU(s) orderable: 1
Parallel: No
Primary Cache: 64KBI + 64KBD (on chip) per core
Secondary Cache: 1024KB (I+D) (on chip) per core
L3 Cache: N/A
Other Cache: N/A
Memory: 2x512MB, DDR400 CL2
Disk Subsystem: SATA, 250 GB
Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 9 SP3 (64-bit) Uniprocessor Kernel
Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.3
File System: Linux/ext3
System State: Multi-user, run level 3

Notes/Tuning Information

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

Baseline optimization flags:

C programs: -Ofast +FDO
C++ programs: -Ofast +FDO

Portability Flags:

186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
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_CALLOC_PROTO -DSPEC_CPU2000_LP64
255.vortex: -DSPEC_CPU2000_LP64

Peak Tuning:

164.gzip: -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
175.vpr: -O3 -ipa -m32 +FDO
176.gcc: -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO



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Notes/Tuning Information (Continued)

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181.mcf:      -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty:   -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
197.parser:   -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon:      -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000
              -OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exceptions
              -LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
253.perlbnk:  -O2 -ipa -OPT:Ofast:transform_to_memlib=off
              -fno-math-errno -IPA:plimit=10000 +FDO
255.vortex:   -Ofast -OPT:goto=off -CG:p2align=on
              -GRA:optimize_boundary=on -IPA:min_hotness=120 +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

```

Corsair CMX512-3200XL memory used in Dual Channel configuration.

Memory timings manually set in BIOS: Command Rate=1T

BIOS rev 3.01

The tested system can be assembled using a standard ATX case and an Antec True 550 watt EPS12V Power Supply.