CINT2000 Result

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Advanced Micro Devices

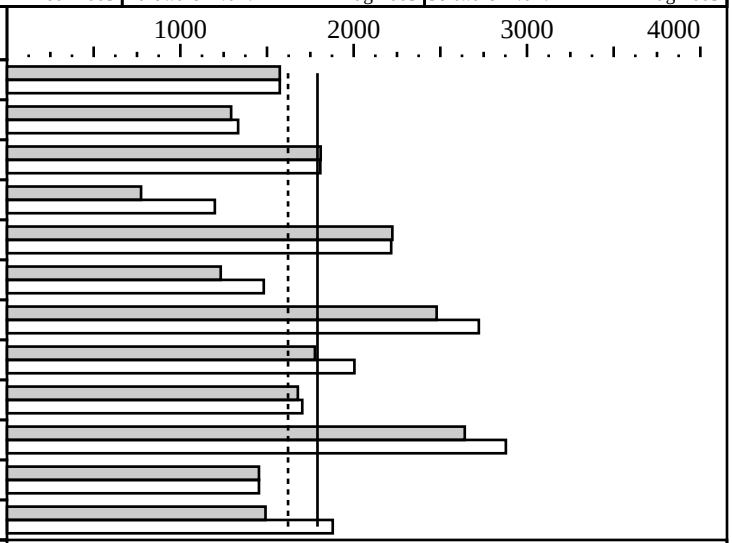
TYAN S2865 K8E Tomcat, AMD Opteron (TM) 152

SPECint2000 = 1791

SPECint_base2000 = 1621

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	89.0	1574	89.0	1574
175.vpr	1400	108	1293	105	1333
176.gcc	1100	60.8	1810	60.9	1808
181.mcf	1800	233	773	150	1199
186.crafty	1000	45.0	2223	45.1	2216
197.parser	1800	146	1233	122	1481
252.eon	1300	52.4	2479	47.8	2722
253.perlbmk	1800	101	1776	89.8	2004
254.gap	1100	65.6	1678	64.6	1703
255.vortex	1900	71.9	2641	66.0	2878
256.bzip2	1500	103	1454	103	1454
300.twolf	3000	201	1491	160	1879



Hardware

CPU:	AMD Opteron (TM) 152 (939-pin)
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB (I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x512 MB, DDR400 CL2.0
Disk Subsystem:	IDE, Western Digital WD2000JB, 7200 rpm
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 9 (SP2) for AMD64
Compiler:	PathScale EKOPath(TM) Compiler Suite, Release 2.1
File System:	Linux/ext3
System State:	Multi-user, run level 3

Notes/Tuning Information

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Tested by AMD

 +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

 Peak Tuning:
```

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Notes/Tuning Information (Continued)

```
  164.gzip:     basepeak = true
  175.vpr:     -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000
               -INLINE:aggressive=on -IPA:plimit=10000:callee_limit=5000
               +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: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
               -fno-math-errno -IPA:plimit=10000 +FDO
  254.gap:     -Ofast -WOPT:aggstr=off +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
The tested system can be assembled using a standard ATX footprint, an Antec True 550
Watt EPS12V power supply, and a PCI or PCIe graphics card.
All memory slots were populated with Corsair CMX512-3200XL.
Memory timings manually set in BIOS: CAS=2, TRCD=2, TRAS=5, TRP=2
BIOS version 1.01
```