CINT2000 Result

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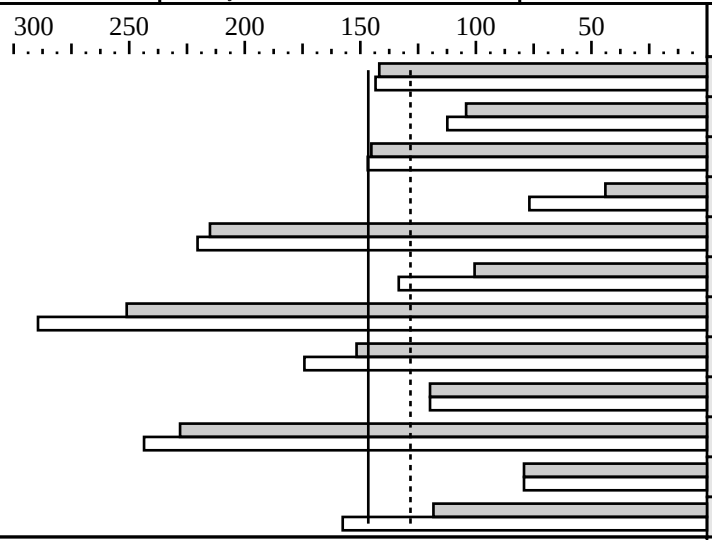
Advanced Micro Devices

TYAN Thunder K8QSD Pro (S4882-D), AMD Opteron(TM) 885

SPECint_rate2000 = 147

SPECint_rate_base2000 = 128

SPEC license #: 49 | Tested by: AMD Austin, TX | Test date: Feb-2006 | Hardware Avail: Mar-2006 | Software Avail: Jan-2006



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	91.6	142	8	90.6	143
175.vpr	8	125	104	8	116	112
176.gcc	8	70.3	145	8	69.5	147
181.mcf	8	380	44.0	8	217	76.9
186.crafty	8	43.1	215	8	42.1	220
197.parser	8	166	101	8	125	133
252.eon	8	48.0	251	8	41.7	289
253.perlbmk	8	110	152	8	95.9	174
254.gap	8	85.2	120	8	85.2	120
255.vortex	8	77.3	228	8	72.4	244
256.bzip2	8	176	79.2	8	176	79.2
300.twolf	8	235	118	8	177	158

Hardware

CPU:	AMD Opteron(TM) 885
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	8 cores, 4 chips, 2 cores/chip
CPU(s) orderable:	1-4
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:	8x512MB, DDR400 CL2 ECC Reg
Disk Subsystem:	SCSI, 80 GB
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 9 SP2 (64-bit)
Compiler:	PathScale EKOPath(TM) Compiler Suite, Release 2.3
File System:	Linux/ReiserFS
System State:	Multi-user, runlevel 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.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_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)

```
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.perlbmk: -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

OCZ (OCZ4001024ELERDC-K) memory in Dual Channel configuration
2x512 DIMMS per CPU
BIOS rev 4882_Rev E 1.05
The system under test can be built using a SSI MEB case and
a Zippy Technology Corp. PSL-6701P 12V 700W power supply.
Disabled ECC Scrub Redirect, ECC Multibit Error Detection,
and DRAM ECC Scrub CTL. Enabled Speculative TLB Reload
Taskset utility used to bind CPU(s) to processes
```