



CINT2000 Result

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Sun Microsystems
Sun Fire V40z

SPECint2000 = 1741
SPECint_base2000 = 1558

SPEC license #: 6 Tested by: Sun Microsystems, Santa Clara Test date: Feb-2005 Hardware Avail: Apr-2005 Software Avail: Jan-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	91.1	1537	91.5	1531	
175.vpr	1400	114	1228	111	1259	
176.gcc	1100	62.1	1772	61.7	1784	
181.mcf	1800	250	720	156	1154	
186.crafty	1000	45.7	2187	44.7	2238	
197.parser	1800	153	1174	126	1424	
252.eon	1300	54.0	2408	49.5	2625	
253.perlbnk	1800	106	1704	93.4	1926	
254.gap	1100	67.4	1633	65.7	1675	
255.vortex	1900	76.1	2497	68.7	2765	
256.bzip2	1500	106	1415	106	1415	
300.twolf	3000	214	1402	162	1847	

Hardware

CPU: AMD Opteron (TM) 852
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1,2,4
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB (I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4GB (4x1GB, PC3200 CL3 DDR)
 Disk Subsystem: SCSI, 73GB, 10K RPM
 Other Hardware: None

Software

Operating System: SUSE LINUX Enterprise Server 9
 Compiler: PathScale EKOPath Compiler Suite, Release 2.0
 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 and Alternate Source:

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

Peak Tuning:

164.gzip : -O3 -ipa -m3dnow -WOPT:val=0 +FDO



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Notes/Tuning Information (Continued)

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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 +FDO
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

```

Note: The config file requested the vortex "closed_files" srcalt, but that srcalt was not in fact installed, so it was not used.
 Default BIOS setting was used; Only one CPU was present on the system