CINT2000 Result

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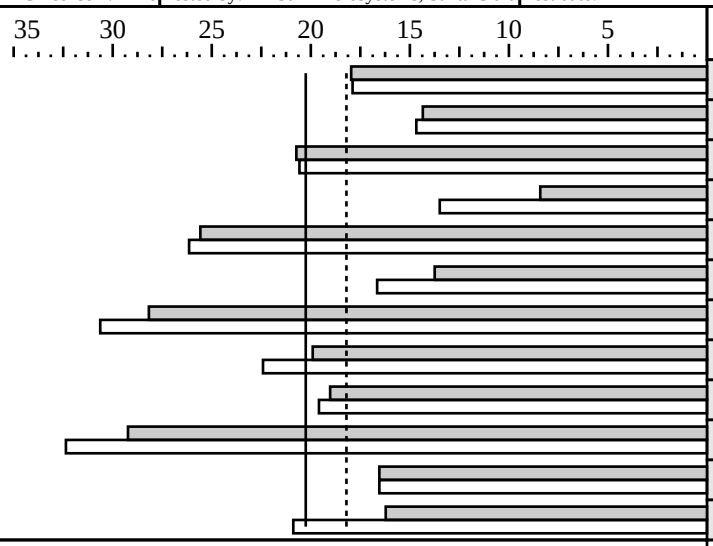
Sun Microsystems
Sun Fire V20z

SPECint_rate2000 = 20.3

SPECint_rate_base2000 = 18.2

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	90.4	18.0	1	90.8	17.9
175.vpr	1	113	14.3	1	111	14.7
176.gcc	1	61.6	20.7	1	62.0	20.6
181.mcf	1	248	8.42	1	155	13.5
186.crafty	1	45.4	25.6	1	44.4	26.1
197.parser	1	152	13.7	1	125	16.7
252.eon	1	53.5	28.2	1	49.2	30.6
253.perlbmk	1	105	19.9	1	93.2	22.4
254.gap	1	67.1	19.0	1	65.1	19.6
255.vortex	1	75.4	29.2	1	68.1	32.4
256.bzip2	1	105	16.5	1	105	16.5
300.twolf	1	215	16.2	1	167	20.9

Hardware

CPU:	AMD Opteron (TM) 252
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1,2
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.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

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

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Notes/Tuning Information (Continued)

```
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.perlbmk: -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 in the system.
```