CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

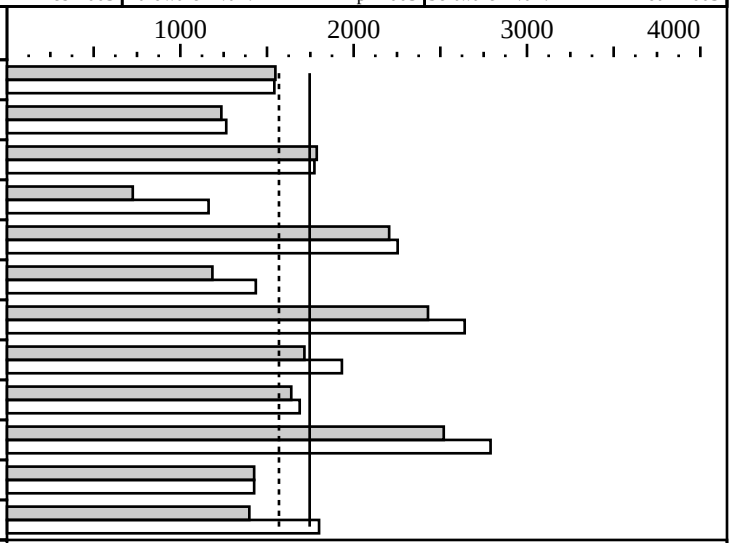
Sun Microsystems
Sun Fire V20z

SPECint2000 = 1746

SPECint_base2000 = 1569

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	90.4	1548	90.8	1542
175.vpr	1400	113	1237	111	1265
176.gcc	1100	61.6	1787	62.0	1774
181.mcf	1800	248	726	155	1163
186.crafty	1000	45.4	2205	44.4	2254
197.parser	1800	152	1185	125	1435
252.eon	1300	53.5	2429	49.2	2640
253.perlbmk	1800	105	1716	93.2	1932
254.gap	1100	67.1	1640	65.1	1689
255.vortex	1900	75.4	2520	68.1	2790
256.bzip2	1500	105	1426	105	1426
300.twolf	3000	215	1398	167	1800



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
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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.
```