CINT2000 Result

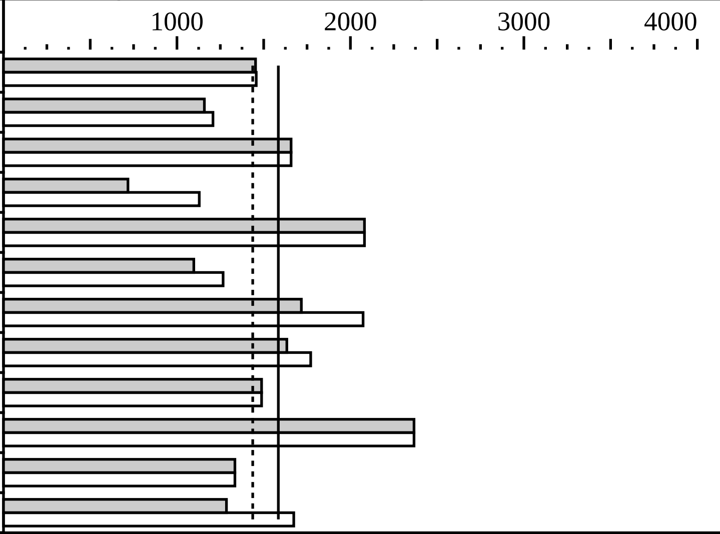
Sun Microsystems
Sun Java Workstation W2100z

SPECint2000 = 1584

SPECint_base2000 = 1437

SPEC license #: 6	Tested by: Sun Microsystems, Santa Clara	Test date: Jun-2004	Hardware Avail: Jul-2004	Software Avail: May-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	96.3	1453	96.1	1457
175.vpr	1400	121	1158	116	1208
176.gcc	1100	66.3	1658	66.3	1658
181.mcf	1800	251	718	159	1129
186.crafty	1000	48.1	2081	48.1	2081
197.parser	1800	164	1097	142	1266
252.eon	1300	75.7	1717	62.7	2073
253.perlbmk	1800	110	1634	102	1771
254.gap	1100	73.9	1488	73.9	1488
255.vortex	1900	80.3	2367	80.3	2367
256.bzip2	1500	112	1334	112	1334
300.twolf	3000	233	1285	179	1673



Hardware

CPU:	AMD Opteron (TM) 250
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	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:	4x1GB, PC3200 CL3 DDR SDRAM ECC Registered
Disk Subsystem:	SCSI, 73GB, 10K RPM
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux WS 3 (AMD64)
Compiler:	PathScale EKO Compiler Suite, Release 1.1 Red Hat gcc 3.5 ssa (from RHEL WS 3)
File System:	Linux/ext3
System State:	Multi-user, Run level 3

Notes/Tuning Information

```
Feedback-directed optimization is indicated by "+FDO", which means,
unless otherwise noted:
     PASS1: -fb_create fbdata
     PASS2: -fb_opt    fbdata

Compiler: pathcc (PathScale C) unless otherwise noted.
If other compilers are used, they are indicated as:
   g++     Gnu C++
   pathCC  PathScale C++

Integer base tuning:
  C programs:       pathcc -O3 -ipa +FDO
  C++ programs:     pathCC -Ofast +FDO

Peak Tuning:
164.gzip:     -O3 -ipa -WOPT:val=0 -CG:p2align_freq=10000 +FDO
175.vpr:      -O2 -ipa -OPT:alias=disjoint -LNO:prefetch_ahead=2
              -CG:p2align_freq=500000 -INLINE:aggressive=on
              -IPA:space=300:plimit=10000:callee_limit=5000:linear=on
```

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Notes/Tuning Information (Continued)

```
                   +FDO
     176.gcc:      basepeak = true
     181.mcf:      -O3 -static -OPT:Ofast -m32 +FDO
     186.crafty:   basepeak = true
     197.parser:   -O3 -ipa -m32 -IPA:ctype=on +FDO
     252.eon:      g++ -O3 -msse2 -funroll-all-loops -ffast-math
                   -finline-limit=5000
                   Uses g++ style Feedback Directed Optimization:
                      PASS1: -fprofile-arcs   PASS2: -fbranch-probabilities
                   Previous feedback is removed prior to compiles, using:
                      fdo_pre0 = rm -f *.da *.life analyz_prbrob.out
     253.perlbmk:  -O3 -ipa -TENV:X=3 -IPA:min_hotness=5:plimit=20000 +FDO
     254.gap:      basepeak=yes
     255.vortex:   basepeak=yes
     256.bzip2:    basepeak=yes
     300.twolf:    -O2 -OPT:unroll_times=8:unroll_size=256:alias=disjoint:Ofast
                   -CG:gcm=off:p2align_freq=100000 -TENV:X=4 +FDO -m32

     Portability:
     186.crafty:  -DLINUX_i386
     252.eon:     -DHAS_ERRLIST  -DSPEC_CPU2000_LP64 -lm
                  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

     Notes:
          BIOS build A5S1, default setting was used.
          Only one CPU was present in the system, other CPU was physically removed.
```