CINT2000 Result

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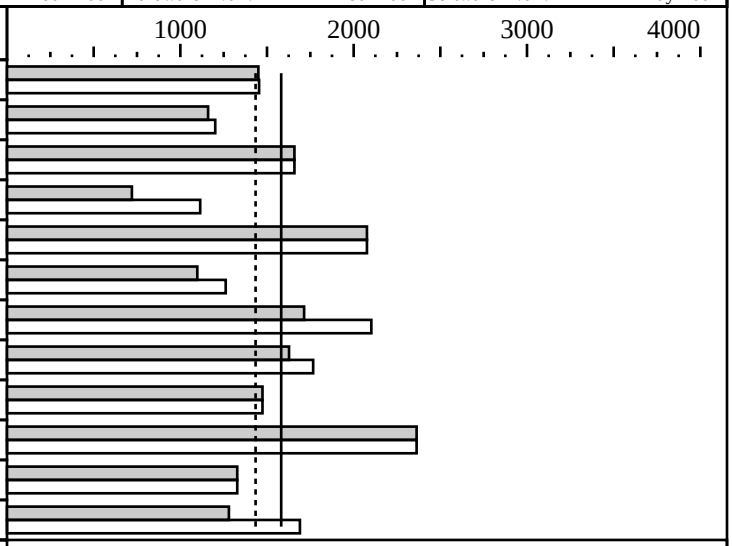
Sun Microsystems
Sun Java Workstation W1100z

SPECint2000 = 1582

SPECint_base2000 = 1434

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	96.5	1450	96.3	1454
175.vpr	1400	121	1160	117	1201
176.gcc	1100	66.3	1658	66.3	1658
181.mcf	1800	250	720	161	1115
186.crafty	1000	48.2	2077	48.2	2077
197.parser	1800	164	1098	143	1262
252.eon	1300	75.8	1714	61.8	2102
253.perlbmk	1800	111	1627	102	1766
254.gap	1100	74.6	1474	74.6	1474
255.vortex	1900	80.4	2363	80.4	2363
256.bzip2	1500	113	1328	113	1328
300.twolf	3000	234	1280	178	1690



Hardware

CPU:	AMD Opteron (TM) 150
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
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:	IDE, 80GB, 7200RPM
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.
```