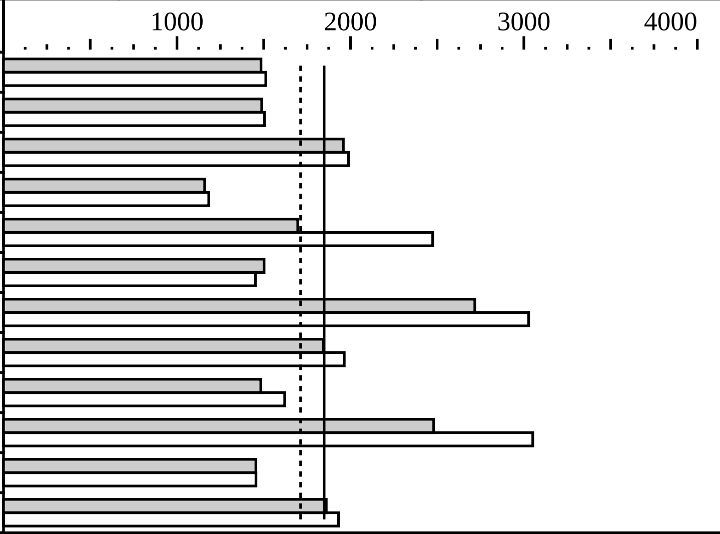
CINT2000 Result

Sun Microsystems
Sun Ultra 40

SPECint2000 = 1848
SPECint_base2000 = 1713

SPEC license #:	Tested by:	Test date:	Hardware Avail:	Software Avail:
6	Sun Microsystems, Santa Clara	Feb-2006	Jan-2006	Nov-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	94.3	1485	92.6	1512
175.vpr	1400	94.0	1489	93.1	1505
176.gcc	1100	56.1	1959	55.3	1989
181.mcf	1800	155	1160	152	1183
186.crafty	1000	58.9	1696	40.4	2474
197.parser	1800	120	1502	124	1453
252.eon	1300	47.8	2717	42.9	3028
253.perlbmk	1800	97.6	1844	91.6	1965
254.gap	1100	74.2	1483	67.9	1621
255.vortex	1900	76.6	2480	62.3	3051
256.bzip2	1500	103	1455	103	1455
300.twolf	3000	161	1861	155	1931



Hardware

CPU:	AMD Opteron (TM) 254
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1,2 (order by # of chips)
Parallel:	No
Primary Cache:	64KBI + 64KBD (on chip) per core
Secondary Cache:	1024KB (I+D) (on chip) per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8GB (4x2GB, PC3200 CL3 DDR ECC Registered SDRAM)
Disk Subsystem:	SATA,250GB,7200 RPM
Other Hardware:	None

Software

Operating System:	Solaris 10 3/05 HW2
Compiler:	Sun Studio 11
File System:	ufs
System State:	Multi-user

Notes/Tuning Information

```
Compiler invocation:
  C: cc
  CXX: CC

FDO:  PASS1= -xprofile=collect:./feedback PASS2= -xprofile=use:./feedback
      fdo_pre0:  rm -rf ./feedback.profile

Integer base flags:
     Base tuning for C programs  : -fast  -xcrossfile -xalias_level=std +FDO ONESTEP=yes
     Base tuning for C++ programs: -fast  -xcrossfile -xarch=amd64 +FDO ONESTEP=yes

Integer peak flags:
 ONESTEP=yes +FDO for all benchmarks

 164.gzip:     -fast -xpagesize=2m -xcrossfile -M /usr/lib/ld/map.bssalign
 175.vpr:      -fast -xpagesize=2m -W2,-Ainline:inc=200:cs=500 -M /usr/lib/ld/map.bssalign -lmopt -lm
 176.gcc:      -fast -xipo=2 -Wd,-iropt-prof -xalias_level=strong -xrestrict
 181.mcf:      -fast -xpagesize=2m -xcrossfile -M /usr/lib/ld/map.bssalign
 186.crafty:   -fast -xrestrict -xipo=2 -xprefetch -xarch=amd64 -xpagesize=2m
               -M /usr/lib/ld/map.bssalign -Wd,-iropt-prof -W2,-Ashort_ldst:ldld
```

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Notes/Tuning Information (Continued)

```
                    -W2,-Ainline:rs=50
 197.parser:   -fast -xpagesize=2m -xipo=2 -W2,-Ainline:inc=200:cs=500 -M /usr/lib/ld/map.bssalign
 252.eon:      -fast -xipo=2 -qoption CC -iropt-prof -xvector -qoption iropt -Abcopy -xalias_level
                 -xarch=amd64 -xrestrict -Qoption ube -xcallee=yes -xregs=frameptr
 253.perlbmk:  -fast -xcrossfile  -M /usr/lib/ld/map.bssalign -lbsdmalloc
 254.gap:      -fast -xipo=2 -Wd,-iropt-prof -xvector -W2,-Abcopy -lbsdmalloc -xprefetch
                 -W2,-Ainline:cp=5:rs=1300:irs=3300:inc=100 -W2,-Arestrict_g
 255.vortex:  -fast -xipo=2 -Wd,-iropt-prof -lbsdmalloc -xrestrict -xprefetch -M /usr/lib/ld/map.bssalign
 256.bzip2:    -fast -xpagesize=2m -xcrossfile -xarch=sse2 -Xc -M /usr/lib/ld/map.bssalign -lbsdmalloc
 300.twolf:    -fast -xipo=2 -Wd,-iropt-prof -xrestrict -M /usr/lib/ld/map.bssalign

Portability:
 186.crafty (base):  -DSOLARIS_X86
 186.crafty (peak):  -DSOLARIS_X64
 252.eon:     -DSPEC_CPU2000_LP64 -DUSE_STRERROR
 253.perlbmk: -DSPEC_CPU2000_SOLARIS_X86
 254.gap:     -DSYS_IS_USG -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_CALLOC_PROTO

Shell Environments:
  Stack size set to unlimited via "ulimit -s unlimited"

Default BIOS setting was used ; System was tested in 1 CPU configuration.
```