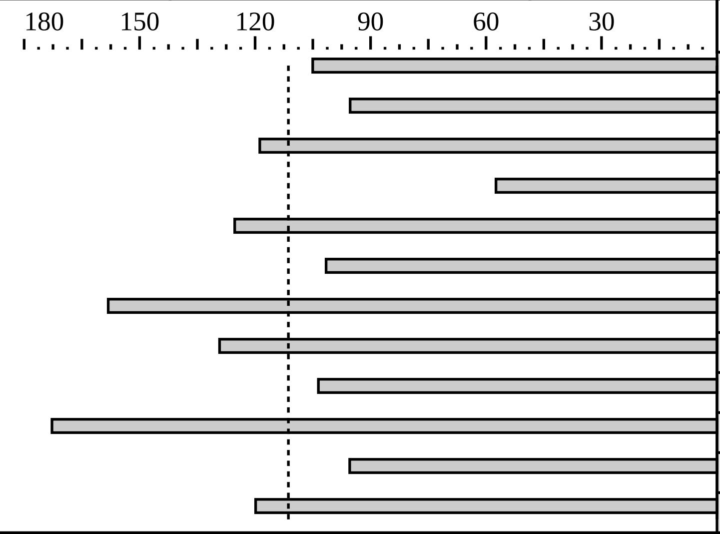
CINT2000 Result

Sun Microsystems
Sun Fire V40z

SPECint_rate2000 = --

SPECint_rate_base2000 = 111

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	124	105			
175.vpr	8	136	95.3			
176.gcc	8	85.9	119			
181.mcf	8	291	57.4			
186.crafty	8	74.1	125			
197.parser	8	164	102			
252.eon	8	76.3	158			
253.perlbmk	8	129	129			
254.gap	8	98.6	104			
255.vortex	8	102	173			
256.bzip2	8	146	95.4			
300.twolf	8	232	120			

Hardware

CPU:	AMD Opteron (TM) 875
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	8 cores, 4 chips, 2 cores/chip
CPU(s) orderable:	2,4 (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:	16GB (8x2GB, PC3200 CL3 DDR SDRAM ECC Registered)
Disk Subsystem:	SCSI, 73GB, 10K RPM
Other Hardware:	None

Software

Operating System:	Solaris 10
Compiler:	Sun Studio 10 with Patch-02 patches
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

Portability:
 186.crafty:  -DUNIX -DHAS_LONGLONG -DLITTLE_ENDIAN_ARCH
 252.eon:     -DFMAX_IS_DOUBLE -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"
```

Notes/Tuning Information (Continued)

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Kernel Parameters (/etc/system):
 autoup=900
 tune_t_fsflushr=1

Patch-02 includes the following patches for Sun Studio 10 compiler, these can be
downloaded from http://developers.sun.com/prodtech/cc/downloads/patches/ss10_patches.html
as of 04/21/2005:
 117835-02 Fortran 90
 117837-02 C
 117841-01 Fortran Dynamic Libraries
 117845-01 Debugger
 117846-02 x86/x64 backend (codegen)

Processes were bound to CPUs using submit=pbind

Default BIOS setting was used
```