



# CFP2000 Result

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## Sun Microsystems Sun Fire 280R

SPECfp2000 = 700

SPECfp\_base2000 = 592

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Nov-2001 Hardware Avail: Dec-2001 Software Avail: Feb-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	279	573	279	573
171.swim	3100	387	801	387	801
172.mgrid	1800	426	423	426	423
173.applu	2100	759	277	398	527
177.mesa	1400	299	468	290	483
178.galgel	2900	199	1458	164	1773
179.art	2600	31.8	8184	31.8	8184
183.quake	1300	219	592	137	951
187.facerec	1900	230	825	230	825
188.amp	2200	514	428	481	457
189.lucas	2000	834	240	407	491
191.fma3d	2100	600	350	564	372
200.sixtrack	1100	353	312	353	312
301.apsi	2600	650	400	564	461

### Hardware

CPU: UltraSPARC III Cu  
CPU MHz: 900  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1,2  
Parallel: None  
Primary Cache: 32KBI+64KBD on chip  
Secondary Cache: 8MB(I+D) off chip  
L3 Cache: None  
Other Cache: None  
Memory: 2GB  
Disk Subsystem: 2 x 36GB  
Other Hardware: --

### Software

Operating System: Solaris 8 10/01  
Compiler: Forte Developer 7 EA  
Forte Developer 6 update 2  
File System: tmpfs  
System State: Multi-User

## Notes/Tuning Information

Portability:

178.galgel: -e -fixed

Base Flags:

Base C flags: -fast -xipo=2 -xalias\_level=std -xprofile

Base F90 flags: -fast -xcrossfile -lprism32 -xprofile

Peak Flags:

168.wupwise: basepeak=yes

171.swim: basepeak=yes

172.mgrid: basepeak=yes

173.applu: -fast -Qoption iropt -Adata\_access,-Mt7000,-Mm14000,-Mr40000,-Ma400,-whole  
-xregs=syst -Qoption iropt -Rscalarrep,-MR -Qoption cg -Qlp=1-av=192-fa=1  
-Qoption f90comp -O3

177.mesa: -fast -xcrossfile -xalias\_level=strong -xprofile

178.galgel: -fast -xcrossfile -xregs=syst -Qoption iropt -Addint:sf=9 -lsunperf -xprofile

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## Notes/Tuning Information (Continued)

```
179.art: basepeak=yes
183.earthquake: -fast -xalias_level=strong -xdepend -W2,-whole,-Amemopt:arrayloc -xprefetch
                -Wc,-Qms_pipe-pref,-Qlp=1-av=256-t=4-fa=1-fl=1 -lprism32 -lmopt -xprofile
187.facerec: basepeak=yes
188.ammamp: -fast -xcrossfile -xalias_level=std -lprism32 -xprofile
189.lucas: -fast -Qoption f90comp -array_pad_rows,2002 -Qoption iropt -whole
           -xdepend -xprefetch -Qoption cg -Qms_pipe-pref,-Qlp=1-t=3-fa=1
           -lprism32 -xprofile
191.fma3d: -fast -xcrossfile -stackvar -xdepend -xprefetch
           -Qoption cg -Qlp=1-av=256-t=3-fa=1 -xprofile
200.sixtrack: basepeak=yes
301.apsi: -fast -Qoption iropt -Mt450 -lprism32 -xprofile
```

Forte Developer 7 (final) will ship May-2002

ONESTEP=yes for all benchmarks in base and peak except for C benchmarks in fp base

### Shell Environments:

```
LD_LIBRARY_PATH=/usr/lib:/ForteD7/FD7/lib/v8plusb:/ForteD7/FD7/YNH/lib/v8plusb
PRISM_HEAP=268435456
PRISM_MODE=2
```

Stack size set to unlimited via "ulimit -s unlimited"

### Kernel Parameters (/etc/system):

```
set shmsys:shminfo_shmmin=1
set shmsys:shminfo_shmmax=1477846784
set shmsys:shminfo_shmmni=256
set shmsys:shminfo_shmseg=400
```

System configuration details located (as of December 2001) at  
<http://www.sun.com/servers/workgroup/280r/>