



# CFP2000 Result

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Sun Microsystems  
Sun Fire V480

SPECfp2000 = 727

SPECfp\_base2000 = 637

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: May-2002 Hardware Avail: Jun-2002 Software Avail: May-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	273	587	273	587
171.swim	3100	318	974	318	974
172.mgrid	1800	407	443	407	443
173.applu	2100	697	301	388	541
177.mesa	1400	284	493	276	508
178.galgel	2900	205	1418	167	1732
179.art	2600	31.2	8341	31.2	8341
183.quake	1300	222	585	131	994
187.facerec	1900	232	821	232	821
188.amp	2200	497	443	456	482
189.lucas	2000	515	388	363	552
191.fma3d	2100	581	362	534	393
200.sixtrack	1100	396	278	396	278
301.apsi	2600	534	487	533	488

### Hardware

CPU: UltraSPARC III Cu  
CPU MHz: 900  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 2,4  
Parallel: No  
Primary Cache: 32KBI+64KBD on chip  
Secondary Cache: 8MB(I+D) off chip  
L3 Cache: None  
Other Cache: None  
Memory: 2GB  
Disk Subsystem: 1 x 36GB + 1 x 18GB  
Other Hardware: None

### Software

Operating System: Solaris 8 02/02  
Compiler: Sun ONE Studio 7 with patch 111704-01  
Sun Performance Library 7  
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 -xlic\_lib=sunperf -xprofile

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## Notes/Tuning Information (Continued)

```

179.art: basepeak=yes
183.quake: -fast -xalias_level=strong -W2,-whole,-Amemopt:arrayloc
           -Wc,-Qms_pipe-pref,-Qlp=1-av=256-t=4-fa=1-fl=1 -lprism32 -lmopt -xprofile
187.facerec: basepeak=yes
188.amp: -fast -xcrossfile -xalias_level=std -lprism32 -xprofile
189.lucas: -fast -Qoption f90comp -array_pad_rows,2002 -Qoption iropt -whole
           -Qoption cg -Qms_pipe-pref,-Qlp=1-t=3-fa=1
           -lprism32 -xprofile
191.fma3d: -fast -xcrossfile -stackvar -Qoption cg -Qlp=1-av=256-t=3-fa=1 -xprofile
200.sixtrack: basepeak=yes
301.apsi: -fast -Qoption iropt -Mt450 -lprism32 -xprofile
ONESTEP=yes for all benchmarks in peak and Fortran benchmarks in base

```

### Shell Environments:

```

LD_LIBRARY_PATH=/usr/lib:/opt/SUNWspro/lib/v8plusb:/opt/SUNWspro/prod/lib/v8plusb
PRISM_HEAP=268435456
PRISM_MODE=2

```

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

### System Settings:

2nd CPU disabled at the firmware level using "ASR"

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

```

set shmsys:shminfo_shmmin=1
set shmsys:shminfo_shmmmax=1477846784
set shmsys:shminfo_shmmni=256
set shmsys:shminfo_shmsegs=400

```

System configuration details located (as of Jun 2002) at  
<http://www.sun.com/servers/entry/>