



# CFP2000 Result

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Sun Microsystems  
Sun Fire V880

SPECfp\_rate2000 = 30.6

SPECfp\_rate\_base2000 = 26.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	297	25.0	4	297	25.0
171.swim	4	442	32.5	4	442	32.5
172.mgrid	4	467	17.9	4	467	17.9
173.applu	4	795	12.3	4	408	23.9
177.mesa	4	285	22.8	4	277	23.5
178.galgel	4	208	64.6	4	170	79.2
179.art	4	31.8	380	4	31.8	380
183.equake	4	254	23.7	4	150	40.2
187.facerec	4	238	37.1	4	238	37.1
188.amp	4	519	19.7	4	521	19.6
189.lucas	4	650	14.3	4	446	20.8
191.fma3d	4	636	15.3	4	586	16.6
200.sixtrack	4	446	11.4	4	446	11.4
301.apsi	4	550	21.9	4	550	21.9

### Hardware

CPU: UltraSPARC III Cu  
CPU MHz: 900  
FPU: Integrated  
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip  
CPU(s) orderable: 2,4,8  
Parallel: No  
Primary Cache: 32KBI+64KBD on chip  
Secondary Cache: 8MB(I+D) off chip  
L3 Cache: None  
Other Cache: None  
Memory: 8GB  
Disk Subsystem: 12 x 36GB  
Other Hardware: None

### Software

Operating System: Solaris 8 02/02  
Compiler: Forte Developer 7  
with patch 111704-01  
Sun Performance Library 7  
File System: ufs  
System State: Single-User

## Notes/Tuning Information

Portability:  
178.galgel: -e -fixed

-xprofile: PASS1=-xprofile=collect, PASS2=-xprofile=use

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



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## Notes/Tuning Information (Continued)

```
177.mesa: -fast -xcrossfile -xalias_level=strong -xprofile
178.galgel: -fast -xcrossfile -xregs=syst -Qoption iropt -Addint:sf=9 -xlic_lib=sunperf -xprofile
179.art: basepeak=yes
183.earthquake: -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.ammmp: -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"

### 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 Jun 2002) at  
<http://www.sun.com/servers/entry/>