# CFP2000 Result

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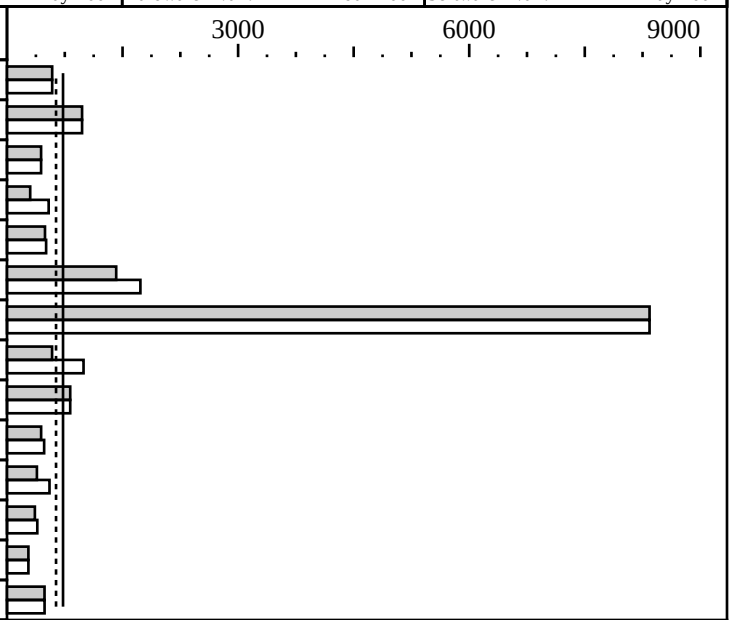
## Sun Microsystems
## Sun Fire V480

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.equake | 1300 | 222 | 585 | 131 | 994 |
| 187.facerec | 1900 | 232 | 821 | 232 | 821 |
| 188.ammp | 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<br>with patch 111704-01<br>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.equake: -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.ammp: -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_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/
```