# CFP2000 Result

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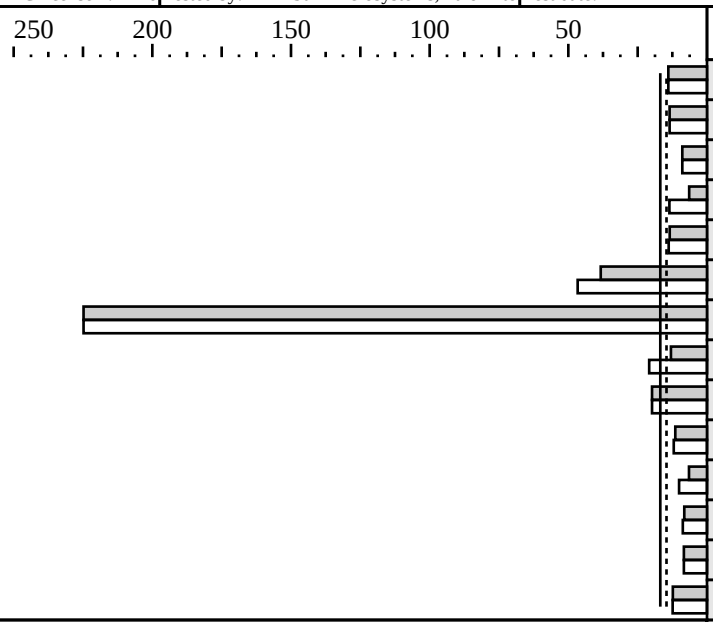
## Sun Microsystems
## Sun Blade 2000 (2x1.05GHz)

SPECfp_rate2000 = 16.8

SPECfp_rate_base2000 = 14.6

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 2 | 266 | 13.9 | 2 | 266 | 13.9 |
| 171.swim | 2 | 533 | 13.5 | 2 | 533 | 13.5 |
| 172.mgrid | 2 | 469 | 8.90 | 2 | 469 | 8.90 |
| 173.applu | 2 | 758 | 6.43 | 2 | 359 | 13.6 |
| 177.mesa | 2 | 242 | 13.4 | 2 | 235 | 13.8 |
| 178.galgel | 2 | 176 | 38.3 | 2 | 144 | 46.6 |
| 179.art | 2 | 26.8 | 225 | 2 | 26.8 | 225 |
| 183.equake | 2 | 232 | 13.0 | 2 | 145 | 20.8 |
| 187.facerec | 2 | 222 | 19.8 | 2 | 222 | 19.8 |
| 188.ammp | 2 | 447 | 11.4 | 2 | 426 | 12.0 |
| 189.lucas | 2 | 715 | 6.49 | 2 | 461 | 10.1 |
| 191.fma3d | 2 | 595 | 8.19 | 2 | 559 | 8.72 |
| 200.sixtrack | 2 | 306 | 8.34 | 2 | 306 | 8.34 |
| 301.apsi | 2 | 490 | 12.3 | 2 | 487 | 12.4 |

### Hardware

| | |
|---|---|
| CPU: | UltraSPARC III Cu |
| CPU MHz: | 1056 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 2 chips, 1 core/chip |
| CPU(s) orderable: | 2 |
| 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: | 2 x 73GB |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Solaris 8 02/02 |
| Compiler: | Forte Developer 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 -lsunperf -xprofile
```

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## Notes/Tuning Information (Continued)

```
 179.art: basepeak=yes
 183.equake: -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.ammp: -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
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 Feb 2002) at
     http://www.sun.com/desktop/products/ws.html
```