



# CFP2000 Result

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Sun Microsystems  
Sun Enterprise 3500/4500

SPECfp\_rate2000 = 20.9  
SPECfp\_rate\_base2000 = 19.0

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Oct-2000 Hardware Avail: Dec-1998 Software Avail: Oct-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	662	22.4	8	662	22.4
171.swim	8	1773	16.2	8	1762	16.3
172.mgrid	8	1123	14.9	8	1127	14.8
173.applu	8	1910	10.2	8	867	22.5
177.mesa	8	826	15.7	8	582	22.3
178.galgel	8	469	57.4	8	469	57.4
179.art	8	332	72.7	8	332	72.7
183.quake	8	1139	10.6	8	1099	11.0
187.facerec	8	512	34.5	8	498	35.4
188.amp	8	1041	19.6	8	1019	20.0
189.lucas	8	1339	13.9	8	1339	13.9
191.fma3d	8	1358	14.3	8	1358	14.3
200.sixtrack	8	1051	9.72	8	1051	9.72
301.apsi	8	1467	16.4	8	1365	17.7

**Hardware**

CPU: UltraSPARC-II  
CPU MHz: 400  
FPU: Integrated  
CPU(s) enabled: 8 cores, 8 chips, 1 core/chip  
CPU(s) orderable: 1-8/1-14  
Parallel: None  
Primary Cache: 16KBI+16KBD on chip  
Secondary Cache: 8MB(I+D) off chip  
L3 Cache: None  
Other Cache: None  
Memory: 8GB  
Disk Subsystem: 6 x 9GB

Other Hardware: --

**Software**

Operating System: Solaris 8  
Compiler: Forte Developer 6 update 1  
File System: UFS  
System State: multiuser

## Notes/Tuning Information

Portability: 178.galgel: -e -fixed

Base:

C: -fast -xcrossfile -xprofile -xalias\_level=std  
F90: -fast -xcrossfile -xprofile

Peak:

168.wupwise: basepeak  
171.swim: -fast -Qoption f90comp -expansion -xsafe=mem -xprefetch -inline=%auto -xvector -xpad=common:15  
-Option iropt -O5+ansi\_alias+scalarrep+algassoc+bcopy+bmerge -xprofile  
172.mgrid: -fast -xregs=syst  
173.applu: -fast -Qoption iropt -Adata\_access,-Mt6000,-Mm12000,-Mr40000,-Ma400,-whole -xregs=syst  
177.mesa: -fast -xcrossfile -xalias\_level=strong -xprofile  
178.galgel: basepeak  
179.art: basepeak  
183.quake: -fast -xalias\_level=strong -xdepend -xprofile -lmopt -lm



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## Notes/Tuning Information (Continued)

```
187.facerec: -fast -xcrossfile -stackvar -xprofile
188.ammmp:   -fast -xcrossfile -xalias_level=strong -xdepend -xregs=syst -xprofile
189.lucas:   basepeak
191.fma3d:   basepeak
200.sixtrack: basepeak
301.apsi:    -fast -qoption f90comp -expansion -xprofile
ONESTEP=yes for both base and peak
```