



# CFP2000 Result

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Sun Microsystems  
Sun Enterprise 3500/4500

SPECfp\_rate2000 = 3.02

SPECfp\_rate\_base2000 = 2.85

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	608	3.05	1	608	3.05
171.swim	1	1073	3.35	1	1041	3.45
172.mgrid	1	816	2.56	1	812	2.57
173.applu	1	1526	1.60	1	828	2.94
177.mesa	1	606	2.68	1	588	2.76
178.galgel	1	473	7.12	1	473	7.12
179.art	1	333	9.07	1	333	9.07
183.quake	1	968	1.56	1	926	1.63
187.facerec	1	499	4.42	1	483	4.57
188.amp	1	948	2.69	1	937	2.72
189.lucas	1	1021	2.27	1	1021	2.27
191.fma3d	1	1128	2.16	1	1127	2.16
200.sixtrack	1	773	1.65	1	773	1.65
301.apsi	1	1409	2.14	1	1333	2.26

**Hardware**

CPU: UltraSPARC-II  
CPU MHz: 400  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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  
-Qoption 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
```