



# CFP2000 Result

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Sun Microsystems  
Sun Blade 1000 Model 1900

SPECfp2000 = 482

SPECfp\_base2000 = 427

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	322	497	308	520
171.swim	3100	412	752	403	769
172.mgrid	1800	478	377	471	382
173.applu	2100	951	221	422	498
177.mesa	1400	299	469	295	474
178.galgel	2900	229	1266	223	1300
179.art	2600	263	990	210	1239
183.earthquake	1300	616	211	588	221
187.facerec	1900	265	718	263	723
188.amp	2200	522	421	484	455
189.lucas	2000	980	204	698	287
191.fma3d	2100	695	302	685	307
200.sixtrack	1100	402	273	402	273
301.apsi	2600	765	340	731	356

### Hardware

CPU: UltraSPARC-III  
CPU MHz: 900  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1-2  
Parallel: No  
Primary Cache: 32KBI+64KBD on chip  
Secondary Cache: 8MB(I+D) off chip  
L3 Cache: None  
Other Cache: None  
Memory: 1GB  
Disk Subsystem: 1 x 18GB  
Other Hardware: --

### Software

Operating System: Solaris 8 update 2  
Compiler: Forte Developer 6 update 1  
File System: UFS  
System State: single user

## Notes/Tuning Information

Portability: 178.galgel: -e -fixed

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

### Peak:

168.wupwise: -fast -xcrossfile -stackvar -xregs=syst  
171.swim: -fast -xchip=ultra2  
172.mgrid: f77 -fast -xregs=syst  
173.applu: f77 -fast -Qoption iropt -Adata\_access,-Mt6000,-Mm12000,-Mr40000,-Ma400,-whole -xregs=syst  
177.mesa: -fast -xcrossfile -xalias\_level=strong -xprofile  
178.galgel: -fast -xcrossfile -xregs=syst -xprofile -dn  
179.art: -fast -xalias\_level=strong -xdepend -xregs=syst -xprofile -dn -lmopt  
183.earthquake: -fast -xalias\_level=strong -xdepend -xprofile -lmopt  
187.facerec: -fast -xcrossfile -stackvar -xprofile



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## Notes/Tuning Information (Continued)

```
188.ammamp: -fast -xcrossfile -xalias_level=strong -xdepend -xregs=syst -W2,-whole -xprofile
189.lucas: -fast -qoption f90comp -array_pad_rows,1024 -Qoption iropt -whole -xprofile
191.fma3d: -fast -xcrossfile -stackvar -xprofile
200.sixtrack: -fast -xcrossfile -xprofile
301.apsi: -fast -qoption f90comp -expansion -xprofile
```

Note: ONESTEP=yes in base and peak for all benchmarks.

Stack size set to unlimited by: ulimit -s unlimited

Note: Forte Developer 6 update 1 patches include:

109503-07,109505-08,109506-06,109513-06

For results with recommended patch 111228-01 and obp 4.0.40 (or later),  
see publication in July-2001