



# CFP2000 Result

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## Sun Microsystems Sun Blade 1000 Model 1900

SPECfp2000 = 410

SPECfp\_base2000 = 369

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Apr-2001 Hardware Avail: Aug-2001 Software Avail: Mar-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	387	413	387	413
171.swim	3100	971	319	961	323
172.mgrid	1800	772	233	766	235
173.applu	2100	964	218	430	488
177.mesa	1400	300	466	299	469
178.galgel	2900	320	906	320	906
179.art	2600	267	973	226	1152
183.quake	1300	620	210	590	220
187.facerec	1900	296	643	288	659
188.amp	2200	538	409	496	444
189.lucas	2000	971	206	741	270
191.fma3d	2100	708	297	709	296
200.sixtrack	1100	390	282	390	282
301.apsi	2600	792	328	754	345

### 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: None  
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 10/00  
Compiler: Forte Developer 6 update 1 w/ latest patches  
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: basepeak=yes

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: basepeak=yes

179.art: -fast -xalias\_level=strong -xdepend -xregs=syst -xprofile -dn -lmopt

183.quake: -fast -xalias\_level=strong -xdepend -xprofile -lmopt

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## Notes/Tuning Information (Continued)

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187.facerec: -fast -xcrossfile -stackvar -xprofile
188.ammf: -fast -xcrossfile -xalias_level=strong -xdepend -xregs=syst
          -W2,-whole -xprefetch -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 for all benchmarks.

Stack size set to unlimited by: ulimit -s unlimited

Forte Developer 6 update 1 patches include:

109503-07,109504-01,109505-08,109506-06,109508-01,109510-01,109513-06

Patch 111228-01 and obp 4.0.40 (or later) is required.

System configuration details located (as of June 2001) at  
<http://www.sun.com/desktop/sunblade1000>