



# CFP2000 Result

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## Sun Microsystems Sun Blade Model 2050

SPECfp2000 = 827  
SPECfp\_base2000 = 701

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Nov-2001 Hardware Avail: Feb-2002 Software Avail: Feb-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	243	659	243	659
171.swim	3100	316	980	316	980
172.mgrid	1800	369	487	369	487
173.applu	2100	678	310	334	629
177.mesa	1400	258	543	251	559
178.galgel	2900	169	1713	139	2085
179.art	2600	27.7	9389	27.7	9389
183.earthquake	1300	202	645	112	1165
187.facerec	1900	198	958	198	958
188.amp	2200	432	509	393	560
189.lucas	2000	539	371	317	631
191.fma3d	2100	524	400	501	419
200.sixtrack	1100	301	366	301	366
301.apsi	2600	552	471	487	534

### Hardware

CPU: UltraSPARC III Cu  
CPU MHz: 1050  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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 10/01  
Compiler: Forte Developer 7 EA  
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 -lsunperf -xprofile



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## Notes/Tuning Information (Continued)

```
179.art: basepeak=yes
183.earthquake: -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.ammamp: -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
```

Forte Developer 7 EA (Early Access) will ship by Feb-2002  
Forte Developer 7 (final) will ship May-2002

ONESTEP=yes for all benchmarks in peak and Fortran benchmarks in base

### Shell Environments:

```
LD_LIBRARY_PATH=/usr/lib:/opt/fd7/lib/v8plusb:/opt/fd7/YNH/lib/v8plusb
PRISM_HEAP=268435456
PRISM_MODE=2
```

Stack size set to unlimited via "ulimit -s unlimited"

### System Settings:

2nd cpu physically removed from system

### 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 Nov 2001) at  
<http://www.sun.com/desktop/products/ws.html>