



# CFP2000 Result

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## Sun Microsystems Sun Fire V880

SPECfp2000 = 378

SPECfp\_base2000 = 354

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	486	329	486	329
171.swim	3100	1226	253	1226	253
172.mgrid	1800	920	196	920	196
173.applu	2100	1278	164	614	342
177.mesa	1400	377	371	366	383
178.galgel	2900	388	747	321	904
179.art	2600	97.4	2670	97.4	2670
183.earthquake	1300	424	307	451	288
187.facerec	1900	333	571	333	571
188.amp	2200	713	309	746	295
189.lucas	2000	747	268	818	244
191.fma3d	2100	1001	210	922	228
200.sixtrack	1100	423	260	423	260
301.apsi	2600	850	306	760	342

### Hardware

CPU: UltraSPARC III  
 CPU MHz: 750  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 2,4,6,8  
 Parallel: None  
 Primary Cache: 32KBI+64KBD on chip  
 Secondary Cache: 8MB(I+D) off chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4GB  
 Disk Subsystem: 9 x 18GB  
 Other Hardware: --

### Software

Operating System: Solaris 8 7/01  
 Compiler: Forte Developer 7 EA  
 Forte Developer 6 update 2  
 File System: Cached Filesystem  
 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)

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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 (final) will ship May-2002

ONESTEP=yes for all benchmarks in base and peak except for C benchmarks in fp base

### Shell Environments:

```

LD_LIBRARY_PATH=/usr/lib:/ForteD7/FD7/lib/v8plusb:/ForteD7/FD7/YNH/lib/v8plusb
PRISM_HEAP=268435456
PRISM_MODE=2

```

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

### 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 at

<http://www.sun.com/servers/workgroup/880/>