



# CFP2000 Result

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Sun Microsystems  
Sun Blade 2000 (1.015GHz)

SPECfp2000 = 775  
SPECfp\_base2000 = 682

SPEC license #: 6 Tested by: Sun Microsystems, Santa Clara Test date: Sep-2002 Hardware Avail: Oct-2002 Software Avail: Aug-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	244	654	244	654
171.swim	3100	331	936	331	936
172.mgrid	1800	426	422	426	422
173.applu	2100	645	325	339	619
177.mesa	1400	251	558	243	577
178.galgel	2900	187	1550	153	1899
179.art	2600	31.0	8386	31.0	8386
183.quake	1300	191	680	125	1041
187.facerec	1900	207	917	207	917
188.amp	2200	434	507	434	507
189.lucas	2000	533	375	367	545
191.fma3d	2100	533	394	483	435
200.sixtrack	1100	354	311	352	313
301.apsi	2600	491	530	490	530

### Hardware

CPU: UltraSPARC III Cu  
 CPU MHz: 1015  
 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 73GB  
 Other Hardware: None

### Software

Operating System: Solaris 8 02/02  
 Compiler: Sun ONE Studio 7 and Sun Performance Library 7  
 File System: ufs  
 System State: Multi-User

## Notes/Tuning Information

Portability:  
 178.galgel: -e -fixed  
 Profile Feedback (-xprofile):  
 fdo\_pre0: rm -rf ./feedback.profile ./SunWS\_cache  
 Pass 1: -xprofile=collect:./feedback  
 Pass 2: -xprofile=use:./feedback

Base Flags:  
 Base C flags: -fast -xipo=2 -xalias\_level=std -xprofile  
 Base F90 flags: -fast -xcrossfile -lprism32 -xprofile  
 ONESTEP=yes for all Fortran benchmarks in base

Peak Flags:  
 168.wupwise: basepeak=yes  
 171.swim: basepeak=yes  
 172.mgrid: basepeak=yes



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## Notes/Tuning Information (Continued)

```

173.applu: -fast -Qoption iropt -Adata_access,-Mt7000,-Mm14000,-Mr40000,-Ma400,-whole
          -xregs=syst -Qoption iropt -Rscallarrep,-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 -xlic_lib=sunperf -xprofile
179.art: basepeak=yes
183.earthquake: -fast -xalias_level=strong -W2,-whole,-Amemopt:arrayloc
                -Wc,-Qms_pipe-pref,-Qlp=1-av=256-t=4-fa=1-fl=1 -lprism32 -lmopt -xprofile
187.facerec: basepeak=yes
188.ammp: basepeak=yes
189.lucas: -fast -Qoption f90comp -array_pad_rows,2002 -Qoption iropt -whole
          -Qoption cg -Qms_pipe-pref,-Qlp=1-t=3-fa=1
          -lprism32 -xprofile
191.fma3d: -fast -xcrossfile -stackvar -Qoption cg -Qlp=1-av=256-t=3-fa=1 -xprofile
200.sixtrack: -fast -xcrossfile -xalias_level=std -xprofile
301.apsi: -fast -Qoption iropt -Mt450 -lprism32 -xprofile
ONESTEP=yes for all benchmarks in peak except 179.art and 188.ammp

```

### Shell Environments:

```

LD_LIBRARY_PATH=/usr/lib:/opt/SUNWspro/lib/v8plusb:/opt/SUNWspro/prod/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

Software Patches: All patches for the Sun ONE Studio 7 Compiler (Product Patches and OS patches) as recommended by <http://access1.sun.com/sundev/sls7-patches.html> on Aug the 7th, 2002 were installed (111704-03 111705-02 111706-01 111708-01 111709-01 111714-01 111715-01 111716-02 111718-01 111723-01 108434-08 108435-08 111697-03 111721-02)