CFP2000 Result

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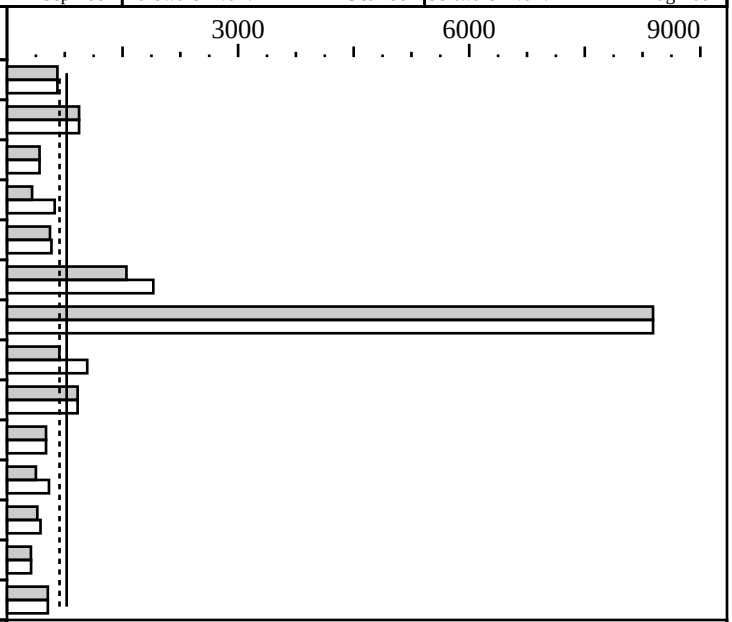
Sun Microsystems
Sun Blade 2000 (1.015GHz)

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.equake	1300	191	680	125	1041
187.facerec	1900	207	917	207	917
188.ammp	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 -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 -xlic_lib=sunperf -xprofile
 179.art: basepeak=yes
 183.equake: -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/s1s7-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)
```