CFP2000 Result

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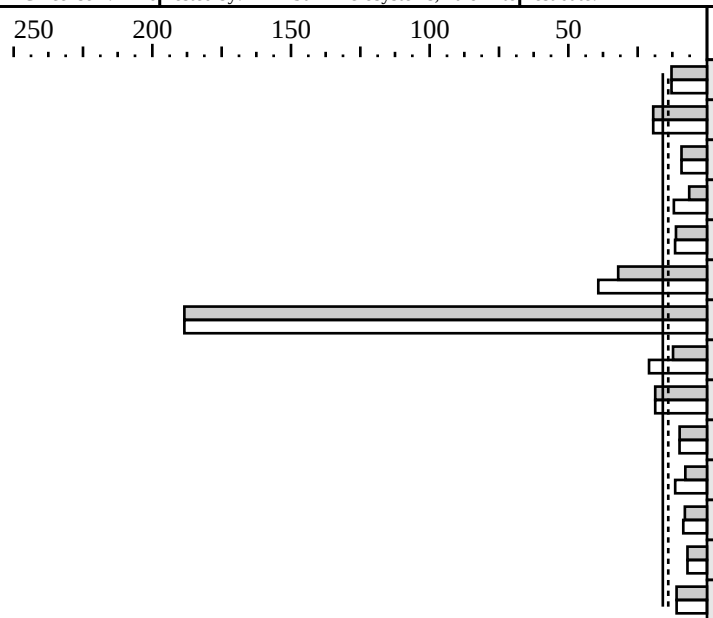
Sun Microsystems
Sun Fire V880

SPECfp_rate2000 = 15.9

SPECfp_rate_base2000 = 14.0

SPEC license #: 6 | Tested by: Sun Microsystems, Palo Alto | Test date: May-2002 | Hardware Avail: Jun-2002 | Software Avail: May-2002



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	290	12.8	2	290	12.8
171.swim	2	371	19.4	2	371	19.4
172.mgrid	2	454	9.20	2	454	9.20
173.applu	2	760	6.41	2	408	11.9
177.mesa	2	290	11.2	2	282	11.5
178.galgel	2	210	32.0	2	172	39.2
179.art	2	32.0	188	2	32.0	188
183.equake	2	246	12.2	2	144	20.9
187.facerec	2	236	18.7	2	236	18.7
188.ammp	2	517	9.87	2	515	9.90
189.lucas	2	594	7.81	2	405	11.5
191.fma3d	2	610	7.98	2	570	8.55
200.sixtrack	2	362	7.04	2	362	7.04
301.apsi	2	550	11.0	2	551	11.0

Hardware

CPU:	UltraSPARC III Cu
CPU MHz:	900
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	2,4,8
Parallel:	No
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	12 x 36GB
Other Hardware:	None

Software

Operating System:	Solaris 8 02/02
Compiler:	Sun ONE Studio 7 with patch 111704-01 Sun Performance Library 7
File System:	tmpfs
System State:	Multi-User

Notes/Tuning Information

```
Portability:
 178.galgel: -e -fixed

-xprofile: PASS1=-xprofile=collect, PASS2=-xprofile=use

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
```

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Notes/Tuning Information (Continued)

```
 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: -fast -xcrossfile -xalias_level=std -lprism32 -xprofile
 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: basepeak=yes
 301.apsi: -fast -Qoption iropt -Mt450 -lprism32 -xprofile
ONESTEP=yes for all benchmarks in peak and Fortran benchmarks in base

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"



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 Jun 2002) at
    http://www.sun.com/servers/entry/
```