CFP2000 Result

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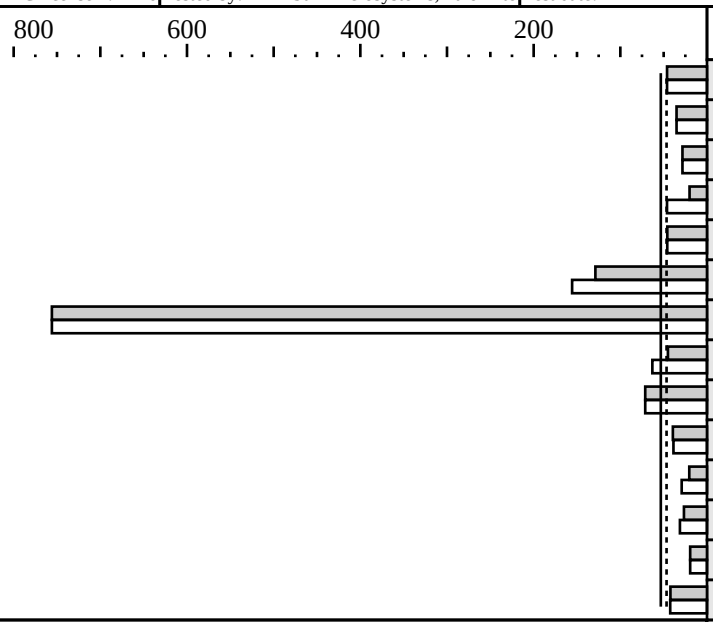
Sun Microsystems
Sun Fire V880

SPECfp_rate2000 = 53.3

SPECfp_rate_base2000 = 46.7

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	8	322	46.1	8	322	46.1
171.swim	8	819	35.1	8	819	35.1
172.mgrid	8	590	28.3	8	590	28.3
173.applu	8	968	20.1	8	422	46.1
177.mesa	8	284	45.8	8	283	45.8
178.galgel	8	209	129	8	173	156
179.art	8	31.9	756	8	31.9	756
183.equake	8	268	45.1	8	191	63.0
187.facerec	8	247	71.3	8	247	71.3
188.ammp	8	518	39.4	8	527	38.7
189.lucas	8	908	20.5	8	636	29.2
191.fma3d	8	733	26.6	8	624	31.2
200.sixtrack	8	526	19.4	8	526	19.4
301.apsi	8	572	42.2	8	569	42.4

Hardware

CPU:	UltraSPARC III Cu
CPU MHz:	900
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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:	16GB
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:	ufs
System State:	Single-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/
```