CFP2000 Result

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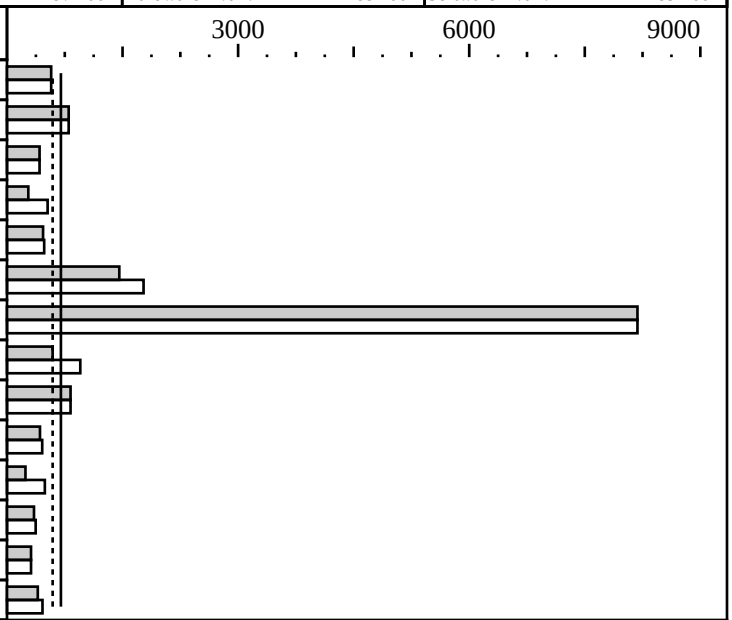
Sun Microsystems
Sun Fire 280R

SPECfp2000 = 700

SPECfp_base2000 = 592

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	279	573	279	573
171.swim	3100	387	801	387	801
172.mgrid	1800	426	423	426	423
173.applu	2100	759	277	398	527
177.mesa	1400	299	468	290	483
178.galgel	2900	199	1458	164	1773
179.art	2600	31.8	8184	31.8	8184
183.equake	1300	219	592	137	951
187.facerec	1900	230	825	230	825
188.ammp	2200	514	428	481	457
189.lucas	2000	834	240	407	491
191.fma3d	2100	600	350	564	372
200.sixtrack	1100	353	312	353	312
301.apsi	2600	650	400	564	461



Hardware

CPU:	UltraSPARC III Cu
CPU MHz:	900
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1,2
Parallel:	None
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	2GB
Disk Subsystem:	2 x 36GB
Other Hardware:	--

Software

Operating System:	Solaris 8 10/01
Compiler:	Forte Developer 7 EA Forte Developer 6 update 2
File System:	tmpfs
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)

```
 179.art: basepeak=yes
 183.equake: -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.ammp: -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 (as of December 2001) at
    http://www.sun.com/servers/workgroup/280r/
```