CFP2000 Result

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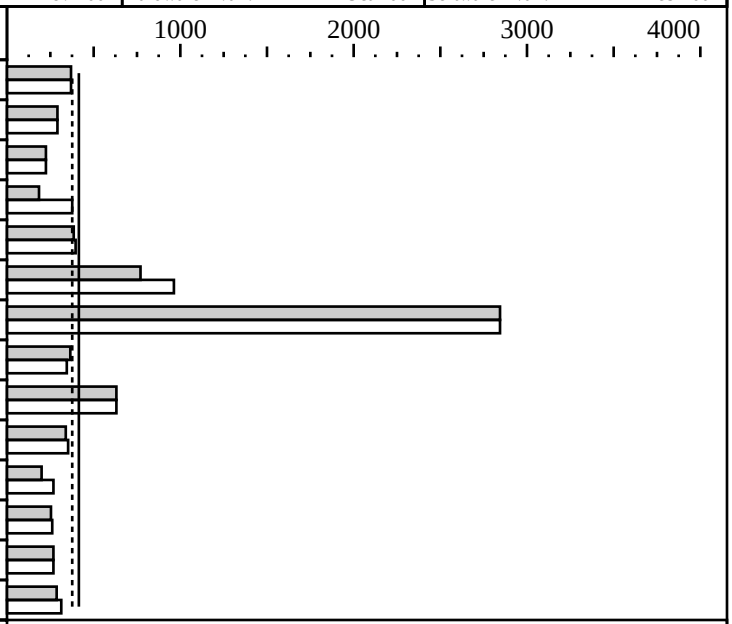
Sun Microsystems
Sun Netra 20

SPECfp2000 = 415

SPECfp_base2000 = 376

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	433	369	433	369
171.swim	3100	1065	291	1065	291
172.mgrid	1800	802	225	802	225
173.applu	2100	1137	185	558	376
177.mesa	1400	364	385	354	396
178.galgel	2900	377	770	301	963
179.art	2600	91.4	2844	91.4	2844
183.equake	1300	356	365	377	345
187.facerec	1900	301	631	301	631
188.ammp	2200	649	339	624	353
189.lucas	2000	1002	200	746	268
191.fma3d	2100	828	254	805	261
200.sixtrack	1100	411	268	411	268
301.apsi	2600	908	286	830	313



Hardware

CPU:	UltraSPARC III
CPU MHz:	750
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 7/01
Compiler:	Forte Developer 7 EA Forte Developer 6 update 2
File System:	ufs
System State:	Single-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 at
    http://www.sun.com/products-n-solutions/hw/networking/netrat/netra20/
```