CFP2000 Result

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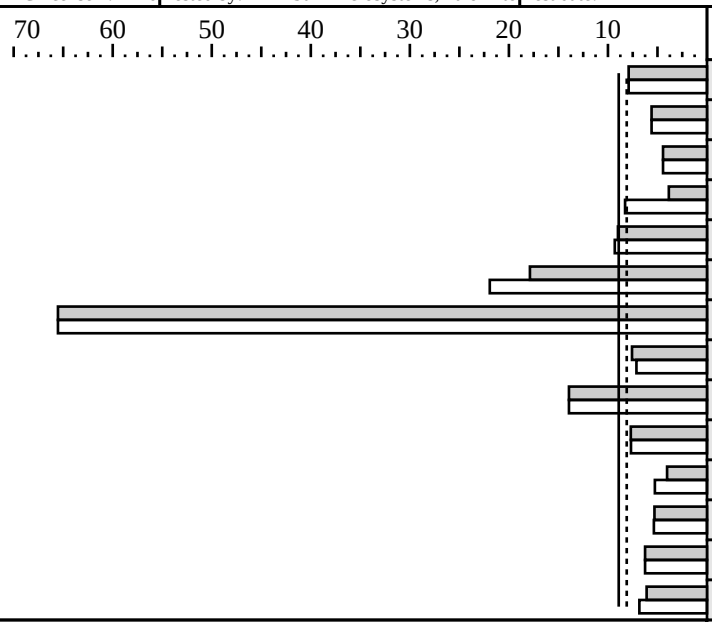
Sun Microsystems
Sun Netra 20

SPECfp_rate2000 = 8.91

SPECfp_rate_base2000 = 8.10

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	469	7.91	2	469	7.91
171.swim	2	1285	5.60	2	1285	5.60
172.mgrid	2	941	4.44	2	941	4.44
173.applu	2	1264	3.85	2	589	8.27
177.mesa	2	361	8.99	2	349	9.31
178.galgel	2	376	17.9	2	307	21.9
179.art	2	92.1	65.5	2	92.1	65.5
183.equake	2	398	7.57	2	423	7.12
187.facerec	2	316	13.9	2	316	13.9
188.ammp	2	663	7.69	2	665	7.67
189.lucas	2	1151	4.03	2	882	5.26
191.fma3d	2	918	5.30	2	908	5.36
200.sixtrack	2	408	6.25	2	408	6.25
301.apsi	2	990	6.10	2	883	6.83

Hardware

CPU:	UltraSPARC III
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 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/
```