CFP2000 Result

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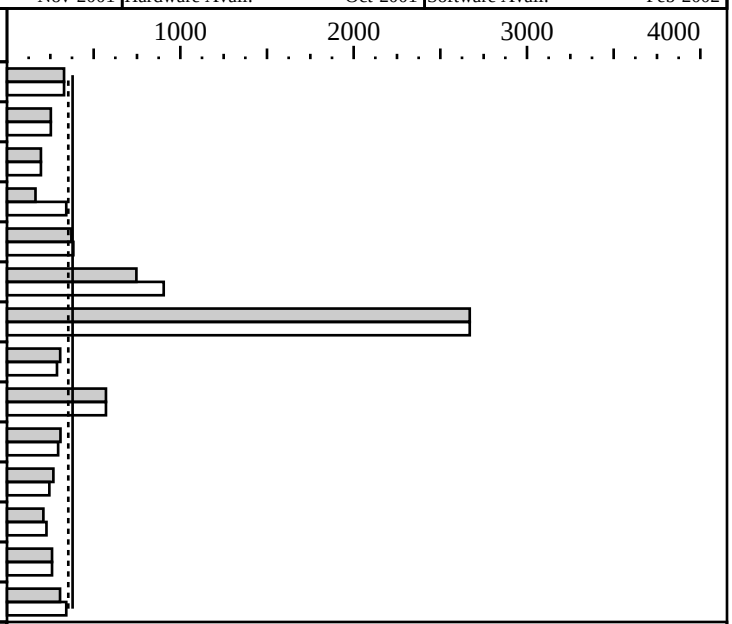
Sun Microsystems
Sun Fire V880

SPECfp2000 = 378

SPECfp_base2000 = 354

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	486	329	486	329
171.swim	3100	1226	253	1226	253
172.mgrid	1800	920	196	920	196
173.applu	2100	1278	164	614	342
177.mesa	1400	377	371	366	383
178.galgel	2900	388	747	321	904
179.art	2600	97.4	2670	97.4	2670
183.equake	1300	424	307	451	288
187.facerec	1900	333	571	333	571
188.ammp	2200	713	309	746	295
189.lucas	2000	747	268	818	244
191.fma3d	2100	1001	210	922	228
200.sixtrack	1100	423	260	423	260
301.apsi	2600	850	306	760	342



Hardware

CPU:	UltraSPARC III
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	2,4,6,8
Parallel:	None
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	9 x 18GB
Other Hardware:	--

Software

Operating System:	Solaris 8 7/01
Compiler:	Forte Developer 7 EA Forte Developer 6 update 2
File System:	Cached Filesystem
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 at
    http://www.sun.com/servers/workgroup/880/
```