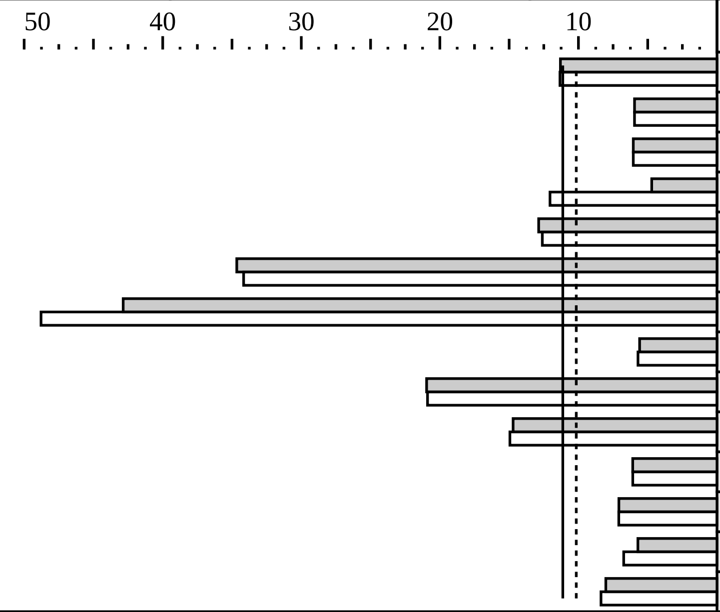
CFP2000 Result

Sun Microsystems
Sun Enterprise 450

SPECfp_rate2000 = 11.1

SPECfp_rate_base2000 = 10.2

SPEC license #:	6	Tested by:	Sun Microsystems, Palo Alto	Test date:	Aug-2000	Hardware Avail:	Aug-2000	Software Avail:	Oct-2000



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	657	11.3	4	655	11.3
171.swim	4	2417	5.95	4	2416	5.95
172.mgrid	4	1382	6.04	4	1382	6.04
173.applu	4	2068	4.71	4	808	12.1
177.mesa	4	505	12.9	4	515	12.6
178.galgel	4	388	34.7	4	394	34.2
179.art	4	282	42.9	4	247	48.8
183.equake	4	1080	5.58	4	1058	5.70
187.facerec	4	421	21.0	4	422	20.9
188.ammp	4	694	14.7	4	683	14.9
189.lucas	4	1526	6.08	4	1527	6.08
191.fma3d	4	1376	7.08	8	2749	7.09
200.sixtrack	4	894	5.71	8	1516	6.73
301.apsi	4	1503	8.02	4	1441	8.37

Hardware

CPU:	UltraSPARC II
CPU MHz:	480
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	1 to 4
Parallel:	None
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	1024MB
Disk Subsystem:	1*9.1GB(7200 RPM) + 1*4.5GB(7200 RPM)
Other Hardware:	

Software

Operating System:	Solaris 8
Compiler:	Forte Developer 6 update 1
File System:	UFS
System State:	single user

Notes/Tuning Information

```
Portability: 178.galgel: -e -fixed

Base C   flags: -fast -xcrossfile -xprofile -xalias_level=std
Base F90 flags: -fast -xcrossfile -xprofile
Peak flags:
  168.wupwise : -fast -xcrossfile -xprofile
  171.swim    : -fast -xcrossfile -stackvar -xprofile -dn
  172.mgrid   : -fast -xcrossfile -xprofile
  173.applu   : -fast -Qoption iropt -Adata_access,-Mt6000,-Mm12000,-Mr40000,-Ma400,-whole -dn
  177.mesa    : -fast -xcrossfile -xalias_level=std -xprofile -dn
  178.galgel  : -fast -xcrossfile -stackvar -xprofile -dn
  179.art     : -fast -W2,-O4+ansi_alias -xrestrict -W2,-O4+restrict_g -xprofile
  183.equake  : -fast -xcrossfile -xalias_level=strong -xdepend -xprofile -dn
  187.facerec : -fast -xcrossfile -xprofile
```

CFP2000 Result

Sun Microsystems Sun Enterprise 450	SPECfp_rate2000 = 11.1 SPECfp_rate_base2000 = 10.2

SPEC license #: 6	Tested by: Sun Microsystems, Palo Alto	Test date: Aug-2000	Hardware Avail: Aug-2000	Software Avail: Oct-2000

Notes/Tuning Information (Continued)

```
  188.ammp    : -fast -xcrossfile -xalias_level=strong -xdepend -xprofile -dn
  189.lucas   : -fast -xcrossfile -xprofile
  191.fma3d   : -fast -xcrossfile -xprofile
  200.sixtrack: -fast -xcrossfile -xprofile
  301.apsi    : -fast -xcrossfile -Qoption f90comp -expansion -xprofile -dn
Proper operation of -xcrossfile requires simultaneous presentation of all source
files to the compiler.  This is accomplished within the SPECcpu2000 suite by
setting ONESTEP = yes.
Baseline: f90 used for all benchmarks.
Peak:     f90 used for the Fortran90 benchmarks (178.galgel, 187.facerec, 189.lucas,
          191.fma3d) and for 301 apsi. f77 used for the other Fortran benchmarks.
```