CFP2000 Result

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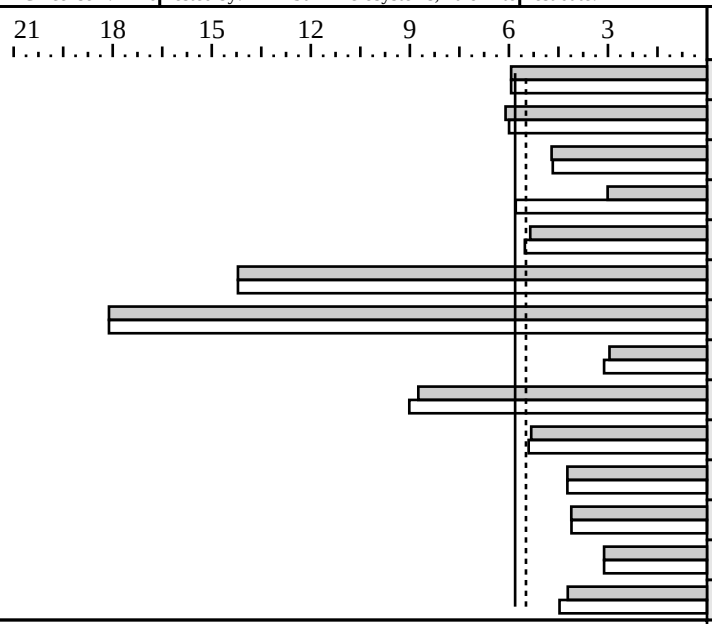
Sun Microsystems
Sun Enterprise 3500/4500

SPECfp_rate2000 = 5.81

SPECfp_rate_base2000 = 5.48

SPEC license #: 6 | Tested by: Sun Microsystems, Palo Alto | Test date: Sep-2000 | Hardware Avail: Dec-1998 | Software Avail: Oct-2000



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	626	5.93	2	626	5.93
171.swim	2	1179	6.10	2	1200	6.00
172.mgrid	2	887	4.71	2	894	4.67
173.applu	2	1619	3.01	2	841	5.79
177.mesa	2	607	5.35	2	589	5.52
178.galgel	2	474	14.2	2	474	14.2
179.art	2	333	18.1	2	333	18.1
183.equake	2	1021	2.95	2	968	3.12
187.facerec	2	504	8.74	2	489	9.02
188.ammp	2	959	5.32	2	945	5.40
189.lucas	2	1097	4.23	2	1097	4.23
191.fma3d	2	1185	4.11	2	1187	4.10
200.sixtrack	2	819	3.12	2	819	3.12
301.apsi	2	1430	4.22	2	1351	4.47

Hardware

CPU:	UltraSPARC-II
CPU MHz:	400
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1-8/1-14
Parallel:	None
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	8GB
Disk Subsystem:	6 x 9GB
Other Hardware:	--

Software

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

Notes/Tuning Information

```
Portability: 178.galgel: -e -fixed
Base:
    C: -fast -xcrossfile -xprofile -xalias_level=std
    F90: -fast -xcrossfile -xprofile
Peak:
    168.wupwise:  basepeak
   171.swim:     -fast -Qoption f90comp -expansion -xsafe=mem -xprefetch -inline=%auto -xvector -xpad=common:15
                 -Qoption iropt -O5+ansi_alias+scalarrep+algassoc+bcopy+bmerge -xprofile
    172.mgrid:    -fast -xregs=syst
   173.applu:    -fast -Qoption iropt -Adata_access,-Mt6000,-Mm12000,-Mr40000,-Ma400,-whole -xregs=syst
    177.mesa:     -fast -xcrossfile -xalias_level=strong -xprofile
    178.galgel:   basepeak
    179.art:      basepeak
    183.equake:   -fast -xalias_level=strong -xdepend -xprofile -lmopt -lm
    187.facerec:  -fast -xcrossfile -stackvar -xprofile
    188.ammp:     -fast -xcrossfile -xalias_level=strong -xdepend -xregs=syst -xprofile
    189.lucas:    basepeak
```

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Notes/Tuning Information (Continued)

```
    191.fma3d:    basepeak
    200.sixtrack: basepeak
    301.apsi:     -fast -qoption f90comp -expansion -xprofile
ONESTEP=yes for both base and peak
```