CFP2000 Result

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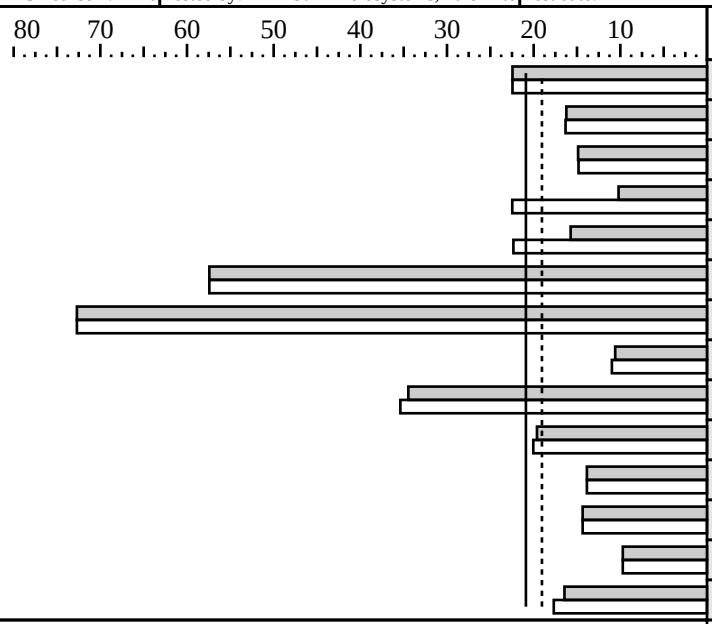
Sun Microsystems
Sun Enterprise 3500/4500

SPECfp_rate2000 = 20.9

SPECfp_rate_base2000 = 19.0

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	662	22.4	8	662	22.4
171.swim	8	1773	16.2	8	1762	16.3
172.mgrid	8	1123	14.9	8	1127	14.8
173.applu	8	1910	10.2	8	867	22.5
177.mesa	8	826	15.7	8	582	22.3
178.galgel	8	469	57.4	8	469	57.4
179.art	8	332	72.7	8	332	72.7
183.equake	8	1139	10.6	8	1099	11.0
187.facerec	8	512	34.5	8	498	35.4
188.ammp	8	1041	19.6	8	1019	20.0
189.lucas	8	1339	13.9	8	1339	13.9
191.fma3d	8	1358	14.3	8	1358	14.3
200.sixtrack	8	1051	9.72	8	1051	9.72
301.apsi	8	1467	16.4	8	1365	17.7

Hardware

CPU:	UltraSPARC-II
CPU MHz:	400
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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
```

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Notes/Tuning Information (Continued)

```
    187.facerec:  -fast -xcrossfile -stackvar -xprofile
    188.ammp:     -fast -xcrossfile -xalias_level=strong -xdepend -xregs=syst -xprofile
    189.lucas:    basepeak
    191.fma3d:    basepeak
    200.sixtrack: basepeak
    301.apsi:     -fast -qoption f90comp -expansion -xprofile
ONESTEP=yes for both base and peak
```