CFP2000 Result

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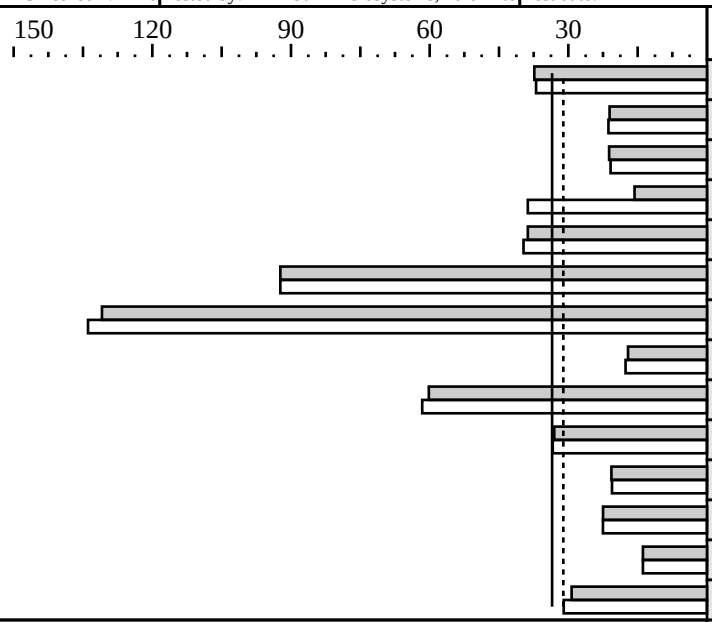
Sun Microsystems
Sun Enterprise 4500

SPECfp_rate2000 = 33.5

SPECfp_rate_base2000 = 31.1

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	14	696	37.4	14	703	37.0
171.swim	14	2389	21.1	14	2361	21.3
172.mgrid	14	1380	21.2	14	1401	20.9
173.applu	14	2175	15.7	14	880	38.8
177.mesa	14	587	38.8	14	573	39.7
178.galgel	14	510	92.3	14	510	92.3
179.art	14	323	131	14	315	134
183.equake	14	1236	17.1	14	1198	17.6
187.facerec	14	513	60.2	14	501	61.6
188.ammp	14	1081	33.0	14	1071	33.4
189.lucas	14	1571	20.7	14	1580	20.6
191.fma3d	14	1516	22.5	14	1515	22.5
200.sixtrack	14	1289	13.9	14	1289	13.9
301.apsi	14	1442	29.3	14	1362	31.0

Hardware

CPU:	UltraSPARC-II
CPU MHz:	400
FPU:	Integrated
CPU(s) enabled:	14 cores, 14 chips, 1 core/chip
CPU(s) orderable:	1-14
Parallel:	None
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	12GB
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
```