



CFP2000 Result

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Sun Microsystems
Sun Enterprise 3500/4500

SPECfp_rate2000 = 11.1
SPECfp_rate_base2000 = 10.4

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	4	643	11.5	4	643	11.5
171.swim	4	1347	10.7	4	1322	10.9
172.mgrid	4	955	8.75	4	958	8.72
173.applu	4	1719	5.67	4	858	11.4
177.mesa	4	610	10.7	4	592	11.0
178.galgel	4	480	28.0	4	480	28.0
179.art	4	338	35.7	4	338	35.7
183.quake	4	1127	5.35	4	1072	5.63
187.facerec	4	510	17.3	4	496	17.8
188.amp	4	986	10.4	4	970	10.5
189.lucas	4	1173	7.91	4	1173	7.91
191.fma3d	4	1240	7.86	4	1240	7.86
200.sixtrack	4	911	5.60	4	911	5.60
301.apsi	4	1445	8.35	4	1365	8.84

Hardware

CPU: UltraSPARC-II
CPU MHz: 400
FPU: Integrated
CPU(s) enabled: 4 cores, 4 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
-Option 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.quake: -fast -xalias_level=strong -xdepend -xprofile -lmopt -lm



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Notes/Tuning Information (Continued)

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187.facerec: -fast -xcrossfile -stackvar -xprofile
188.ammmp:   -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
```