



CFP2000 Result

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Sun Microsystems
Sun Fire 280R

SPECfp_rate2000 = 7.85

SPECfp_rate_base2000 = 6.90

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Apr-2001 Hardware Avail: Mar-2001 Software Avail: Jan-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	478	7.77	2	478	7.77
171.swim	2	1248	5.76	2	1227	5.86
172.mgrid	2	958	4.36	2	953	4.38
173.applu	2	1199	4.06	2	517	9.42
177.mesa	2	365	8.91	2	359	9.06
178.galgel	2	386	17.4	2	386	17.4
179.art	2	321	18.8	2	272	22.2
183.quake	2	760	3.97	2	720	4.19
187.facerec	2	353	12.5	2	343	12.8
188.amp	2	655	7.79	2	583	8.75
189.lucas	2	1170	3.96	4	1825	5.09
191.fma3d	2	872	5.58	4	1735	5.62
200.sixtrack	2	586	4.35	4	893	5.71
301.apsi	2	946	6.38	4	1804	6.69

Hardware

CPU: UltraSPARC-III
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 1-2
Parallel: None
Primary Cache: 32KBI+64KBD on chip
Secondary Cache: 8MB(I+D) off chip
L3 Cache: None
Other Cache: None
Memory: 4GB
Disk Subsystem: 1 x 36GB + 1 x 9GB
Other Hardware: --

Software

Operating System: Solaris 8 1/01
Compiler: Forte Developer 6 update 1 with patches
File System: UFS
System State: single user

Notes/Tuning Information

Portability:
178.galgel : -e -fixed

Base Flags:
Base C flags: -fast -xcrossfile -xalias_level=std -xprofile
Base F90 flags: -fast -xcrossfile -xprofile

Peak Flags:
168.wupwise : basepeak = yes
171.swim : -fast -xchip=ultra2
172.mgrid : f77 -fast -xregs=syst
173.applu : f77 -fast -Qoption iropt -Adata_access,-Mt6000,-Mm12000,-Mr40000,-Ma400,-whole -xregs=syst
177.mesa : -fast -xcrossfile -xalias_level=strong -xprofile
178.galgel : basepeak = yes
179.art : -fast -xalias_level=strong -xdepend -xregs=syst -xprofile -dn -lmopt
183.quake : -fast -xalias_level=strong -xdepend -xprofile -lmopt



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Notes/Tuning Information (Continued)

```
187.facerec : -fast -xcrossfile -stackvar -xprofile
188.ammmp   : -fast -xcrossfile -xalias_level=strong -xdepend -xregs=syst -W2,-whole -xprefetch -xprofile
189.lucas   : -fast -qoption f90comp -array_pad_rows,1024 -Qoption iropt -whole -xprofile
191.fma3d   : -fast -xcrossfile -stackvar -xprofile
200.sixtrack : -fast -xcrossfile -xprofile
301.apsi    : -fast -qoption f90comp -expansion -xprofile
```

Note: ONESTEP=yes for all benchmarks.
Stack size set to unlimited by: ulimit -s unlimited

Note: Forte Developer 6 update 1 patches include:
109503-07,109504-01,109505-08,109506-06,109508-01,109510-01,109513-06
System configuration details located (as of 06/26/2001) at <http://www.sun.com/servers/workgroup/280r>
Patch 111228-01 and obp 4.0.46 (or later) is required.