



CFP2000 Result

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Sun Microsystems
Sun Fire 280R

SPECfp_rate2000 = 8.54

SPECfp_rate_base2000 = 7.03

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	458	8.11	2	458	8.11
171.swim	2	1255	5.73	2	1231	5.84
172.mgrid	2	960	4.35	2	960	4.35
173.applu	2	1252	3.89	2	546	8.93
177.mesa	2	356	9.11	2	356	9.11
178.galgel	2	381	17.7	2	381	17.7
179.art	2	331	18.2	2	135	44.7
183.quake	2	765	3.94	2	425	7.10
187.facerec	2	307	14.4	2	307	14.4
188.amp	2	649	7.86	2	614	8.31
189.lucas	2	1150	4.04	2	868	5.35
191.fma3d	2	903	5.40	2	870	5.60
200.sixtrack	2	493	5.17	2	493	5.17
301.apsi	2	961	6.28	2	961	6.28

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: 2 x 36GB
 Other Hardware: --

Software

Operating System: Solaris 8 1/01
 Compiler: Forte Developer 6 update 2
 File System: UFS
 System State: Single User

Notes/Tuning Information

Portability:
 178.galgel : -e -fixed

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

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



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Notes/Tuning Information (Continued)

```
-W2,-whole,-Amemopt -xprofile -dn -lmopt
183.equake      : -fast -xalias_level=strong -xdepend
                 -W2,-whole,-Amemopt -xprofile -lmopt
187.facerec     : basepeak=yes
188.ammp        : -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    : basepeak=yes
301.apsi        : basepeak=yes
```

Note:

ONESTEP=yes for all benchmarks.

System configuration details located (as of Jun 2001)
at <http://www.sun.com/servers/workgroup/280r>