



CFP2000 Result

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Sun Microsystems
Sun Fire 280R (1.015GHz)

SPECfp_rate2000 = 16.4

SPECfp_rate_base2000 = 14.1

SPEC license #: 6 | Tested by: Sun Microsystems, Santa Clara | Test date: Oct-2002 | Hardware Avail: Sep-2002 | Software Avail: Sep-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	266	14.0	2	266	14.0
171.swim	2	505	14.2	2	505	14.2
172.mgrid	2	468	8.91	2	468	8.91
173.applu	2	754	6.46	2	359	13.6
177.mesa	2	253	12.9	2	245	13.3
178.galgel	2	191	35.2	2	155	43.3
179.art	2	31.5	191	2	31.5	191
183.equake	2	219	13.7	2	142	21.3
187.facerec	2	220	20.0	2	220	20.0
188.amp	2	450	11.3	2	450	11.3
189.lucas	2	663	7.00	2	432	10.8
191.fma3d	2	590	8.25	2	548	8.89
200.sixtrack	2	443	5.76	2	350	7.29
301.apsi	2	509	11.9	2	508	11.9

Hardware

CPU: UltraSPARC III Cu
 CPU MHz: 1015
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
 CPU(s) orderable: 1-2
 Parallel: No
 Primary Cache: 32KBI+64KBD on chip
 Secondary Cache: 8MB(I+D) off chip
 L3 Cache: None
 Other Cache: None
 Memory: 8GB
 Disk Subsystem: 2 x 18GB
 Other Hardware: None

Software

Operating System: Solaris 8 02/02
 Compiler: Sun ONE Studio 7 and Sun Performance Library 7
 File System: ufs
 System State: Single-User

Notes/Tuning Information

Portability:

178.galgel: -e -fixed

Profile Feedback (-xprofile):

fdo_pre0: rm -rf ./feedback.profile ./SunWS_cache

Pass 1: -xprofile=collect:./feedback

Pass 2: -xprofile=use:./feedback

Base Flags:

Base C flags: -fast -xipo=2 -xalias_level=std -xprofile

Base F90 flags: -fast -xcrossfile -lprism32 -xprofile

Peak Flags:

168.wupwise: basepeak=yes

171.swim: basepeak=yes

172.mgrid: basepeak=yes

173.applu: -fast -Qoption iropt -Adata_access,-Mt7000,-Mm14000,-Mr40000,-Ma400,-whole

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Notes/Tuning Information (Continued)

```
-xregs=syst -Qoption iropt -Rscalarrep,-MR -Qoption cg -Qlp=1-av=192-fa=1
-Qoption f90comp -O3
177.mesa: -fast -xcrossfile -xalias_level=strong -xprofile
178.galgel: -fast -xcrossfile -xregs=syst -Qoption iropt -Addint:sf=9 -xlic_lib=sunperf -xprofile
179.art: basepeak=yes
183.quake: -fast -xalias_level=strong -W2,-whole,-Amemopt:arrayloc
-Wc,-Qms_pipe-pref,-Qlp=1-av=256-t=4-fa=1-fl=1 -lprism32 -lmopt -xprofile
187.facerec: basepeak=yes
188.ammp: basepeak=yes
189.lucas: -fast -Qoption f90comp -array_pad_rows,2002 -Qoption iropt -whole
-Qoption cg -Qms_pipe-pref,-Qlp=1-t=3-fa=1
-lprism32 -xprofile
191.fma3d: -fast -xcrossfile -stackvar -Qoption cg -Qlp=1-av=256-t=3-fa=1 -xprofile
200.sixtrack: -fast -xcrossfile -xalias_level=std -xprofile
301.apsi: -fast -Qoption iropt -Mt450 -lprism32 -xprofile
ONESTEP=yes for all benchmarks in peak except 179.art and 188.ammp, and Fortran benchmarks in base
```

Shell Environments:

```
LD_LIBRARY_PATH=/usr/lib:/opt/SUNWspro/lib/v8plusb:/opt/SUNWspro/prod/lib/v8plusb
PRISM_HEAP=268435456
PRISM_MODE=2
```

Stack size set to unlimited via "ulimit -s unlimited"

Kernel Parameters (/etc/system):

```
set shmsys:shminfo_shmmin=1
set shmsys:shminfo_shmmax=1477846784
set shmsys:shminfo_shmmni=256
set shmsys:shminfo_shmseg=400
```

Software Patches: All patches for the Sun ONE Studio 7 Compiler (Product Patches and OS Patches) as recommended by <http://access1.sun.com/sundev/sls7-patches.html> on Oct 9th, 2002 were installed (111704-04, 111705-03, 111706-02, 111708-01, 111709-02, 111714-02, 111715-01, 111716-02, 111718-01, 111723-01, 108434-08, 108435-09, 111697-03, 111721-02)