



CFP2000 Result

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Sun Microsystems Sun Fire 280R (1.015GHz)

SPECfp2000 = 785

SPECfp_base2000 = 688

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	243	658	243	658
171.swim	3100	324	958	324	958
172.mgrid	1800	396	454	396	454
173.applu	2100	646	325	342	614
177.mesa	1400	252	555	248	565
178.galgel	2900	189	1533	155	1877
179.art	2600	31.3	8315	31.3	8315
183.quake	1300	193	674	120	1085
187.facerec	1900	209	911	209	911
188.amp	2200	437	504	437	504
189.lucas	2000	492	406	327	612
191.fma3d	2100	527	399	486	432
200.sixtrack	1100	359	307	355	310
301.apsi	2600	490	531	489	532

Hardware

CPU: UltraSPARC III Cu
 CPU MHz: 1015
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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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http://www.spec.org



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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 Aug 7th, 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

```