CFP2000 Result

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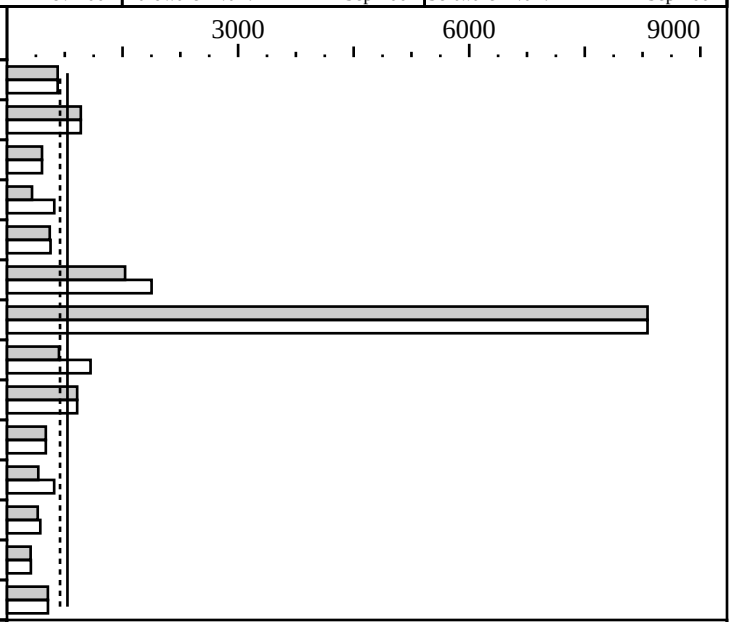
Sun Microsystems
Sun Fire 280R (1.015GHz)

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.equake	1300	193	674	120	1085
187.facerec	1900	209	911	209	911
188.ammp	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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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.equake: -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/s1s7-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
```