



CFP2000 Result

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Sun Microsystems
Sun Fire V880 (1050MHz)

SPECfp_rate2000 = 73.7

SPECfp_rate_base2000 = 63.1

SPEC license #: 6 Tested by: Sun Microsystems Test date: Apr-2003 Hardware Avail: May-2003 Software Avail: May-2003

1200	900	600	300	Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
				168.wupwise	8	239	62.2	8	228	65.1
				171.swim	8	743	38.7	8	138	208
				172.mgrid	8	456	36.6	8	546	30.6
				173.applu	8	360	54.1	8	280	69.7
				177.mesa	8	230	56.5	8	219	59.2
				178.galgel	8	169	159	8	142	190
				179.art	8	30.3	797	8	27.3	883
				183.quake	8	155	78.1	8	173	69.7
				187.facerec	8	192	91.7	8	197	89.5
				188.amp	8	435	46.9	8	397	51.4
				189.lucas	8	713	26.0	8	681	27.2
				191.fma3d	8	615	31.7	8	632	30.8
				200.sixtrack	8	313	32.7	8	283	36.1
				301.apsi	8	471	51.2	8	487	49.6

Hardware

CPU: UltraSPARC III Cu
 CPU MHz: 1050
 FPU: Integrated
 CPU(s) enabled: 8 cores, 8 chips, 1 core/chip
 CPU(s) orderable: 2,4,8
 Parallel: No
 Primary Cache: 32KBI+64KBD on chip
 Secondary Cache: 8MB(I+D) off chip
 L3 Cache: None
 Other Cache: None
 Memory: 16GB 8-way interleaved
 Disk Subsystem: 1 x 36GB
 Other Hardware: None

Software

Operating System: Solaris 9 4/03
 Compiler: Sun ONE Studio 8
 Sun Performance Library 8
 File System: ufs with ufs logging
 System State: Multi-User

Notes/Tuning Information

Compiler invocation:

C: cc
 CXX: CC
 F90: f90
 F77: f90

Floating point base flags:

C: -fast -xipo=2 -xalias_level=std with ONESTEP=yes and feedback
 F90: -fast -xipo=2 with ONESTEP=yes and feedback

Floating point peak flags:

ONESTEP=yes and feedback for all benchmarks, unless otherwise noted

168.wupwise: -fast -xipo=2 -Qoption iropt -Ainline:inc=800:cp=1
 171.swim: -fast -xpad=common:3969 -xpagesize=64K -xprefetch=latx:1.6
 -Qoption iropt -Atile:skewp,-Ainline:cs=700
 (no feedback)



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Notes/Tuning Information (Continued)

```

172.mgrid: -fast -xipo=2
173.applu: -fast -xipo=2
           -Qoption cg -Qlp=1-av=192-fa=1,-Qms_pipe+prefolim=7
           -Qoption iropt -Aujam:inner=g
177.mesa: -fast -xipo=2 -xalias_level=strong -xrestrict
          -Wc,-Qms_pipe+unoovf
178.galgel: -fast -xipo=2 -Qoption iropt -Addint:sf=9 -xlic_lib=sunperf
           RM_SOURCES=lapak.f90
179.art: -fast -xipo=2 -xalias_level=std
         -Wc,-Qms_pipe-prefst,-Qms_pipe+prefolim=11
183.quake: -fast -xipo=2 -xalias_level=strong -xprefetch_level=2
187.facerec: -fast -xipo=2
188.ammp: -fast -xipo=2 -xalias_level=std -xpagesize=512K -lmopt -lm
189.lucas: -fast -xipo=2 -xprefetch_level=3 -Qoption iropt -Apf:pdl=1
           -Qoption f90comp -array_pad_rows,1977
191.fma3d: -fast -xipo=2 -stackvar -xprefetch_level=3
           -Qoption iropt -Apf:pdl=1
200.sixtrack: -O -dalign -xchip=ultra3 -xarch=v8plusb -fsimple=2
301.apsi: -fast -xipo=2

```

Feedback is done as follows, unless otherwise noted:

```

fdo_pre0: rm -rf ./feedback.profile ./SunWS_cache
PASS1: -xprofile=collect:./feedback
PASS2: -xprofile=use:./feedback

```

Portability:

178.galgel: -e -fixed

Shell Environments:

```

Stack size set to unlimited via "ulimit -s unlimited"
MPSSHEAP=512K
MPSSSTACK=512K
LD_PRELOAD=mpss.so.1

```

Kernel Parameters (/etc/system):

```

set autoup=900
set tune_t_fsflushr=1

```