



CFP2000 Result

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Sun Microsystems
Sun Fire V880 (1050MHz)

SPECfp_rate2000 = 41.4

SPECfp_rate_base2000 = 33.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	226	32.9	4	216	34.3
171.swim	4	521	27.6	4	136	106
172.mgrid	4	365	22.9	4	360	23.2
173.applu	4	352	27.7	4	265	36.7
177.mesa	4	238	27.3	4	224	29.1
178.galgel	4	169	79.5	4	141	95.2
179.art	4	30.4	397	4	27.7	436
183.equake	4	129	46.8	4	123	49.0
187.facerec	4	188	46.9	4	187	47.1
188.amp	4	486	21.0	4	396	25.8
189.lucas	4	579	16.0	4	430	21.6
191.fma3d	4	565	17.3	4	502	19.4
200.sixtrack	4	312	16.3	4	282	18.1
301.apsi	4	467	25.8	4	461	26.1

Hardware

CPU: UltraSPARC III Cu
CPU MHz: 1050
FPU: Integrated
CPU(s) enabled: 4 cores, 4 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: 8GB 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=4M
MPSSSTACK=4M
LD_PRELOAD=mpss.so.1
```

Kernel Parameters (/etc/system):

```
set autoup=900
set tune_t_fsflushr=1
```