



CFP2000 Result

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Sun Microsystems
Sun Fire V240 (1503MHz)

SPECfp_rate2000 = 29.4

SPECfp_rate_base2000 = 26.3

SPEC license #: 6 Tested by: Sun Microsystems Test date: Dec-2004 Hardware Avail: Jan-2005 Software Avail: Jan-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	121	30.6	2	121	30.6
171.swim	2	336	21.4	2	170	42.2
172.mgrid	2	245	17.1	2	245	17.1
173.applu	2	227	21.5	2	186	26.2
177.mesa	2	167	19.5	2	144	22.5
178.galgel	2	147	45.8	2	123	54.5
179.art	2	24.4	247	2	22.9	263
183.quake	2	80.4	37.5	2	74.4	40.5
187.facerec	2	106	41.4	2	106	41.7
188.amp	2	407	12.6	2	379	13.5
189.lucas	2	229	20.2	2	229	20.2
191.fma3d	2	325	15.0	2	296	16.5
200.sixtrack	2	215	11.8	2	208	12.3
301.apsi	2	296	20.4	2	296	20.4

Hardware

CPU: UltraSPARC IIIi
CPU MHz: 1503
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: 1MB(I+D) on chip
L3 Cache: None
Other Cache: None
Memory: 8GB 16-way interleaved
Disk Subsystem: 1 x 73GB
Other Hardware: None

Software

Operating System: Solaris 10
Compiler: Sun Studio 9
File System: ufs
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: basepeak = yes
171.swim: -fast -xpad=common:3969 -xpagesize=64K -xprefetch=latx:1.6
-Option 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 -xprefetch=latx:1.5
183.equake: -fast -xipo=2 -xalias_level=strong -xprefetch_level=2
187.facerec: -fast -xipo=2 -xprefetch=latx:1.5
188.ammp: -fast -xarch=v9b -xipo=2 -xalias_level=std -lmopt -lm
189.lucas: basepeak = yes
191.fma3d: -fast -xipo=2 -stackvar -xprefetch_level=3
           -Qoption iropt -Apf:pdl=1
200.sixtrack: -xO4 -dalign -xchip=ultra3 -xarch=v8plusb -fsimple=2
              -xprefetch=no
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):

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

Processes were bound to CPUs using submit=pbind