



CFP2000 Result

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Sun Microsystems
Sun Fire V210 (1336MHz)

SPECfp_rate2000 = 25.9
SPECfp_rate_base2000 = 23.2

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	146	25.5	2	146	25.5
171.swim	2	380	19.0	2	192	37.4
172.mgrid	2	276	15.1	2	277	15.1
173.applu	2	254	19.2	2	209	23.3
177.mesa	2	189	17.2	2	163	19.9
178.galgel	2	166	40.6	2	142	47.3
179.art	2	27.2	222	2	25.7	235
183.quake	2	90.3	33.4	2	83.4	36.2
187.facerec	2	120	36.7	2	119	37.0
188.amp	2	449	11.4	2	423	12.1
189.lucas	2	263	17.6	2	263	17.6
191.fma3d	2	369	13.2	2	332	14.7
200.sixtrack	2	243	10.5	2	234	10.9
301.apsi	2	333	18.1	2	332	18.2

Hardware		Software	
CPU:	UltraSPARC IIIi	Operating System:	Solaris 10
CPU MHz:	1336	Compiler:	Sun Studio 9
FPU:	Integrated	File System:	ufs
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip	System State:	Multi-User
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		

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
-Ooption 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
LiD_PRELOAD=mpss.so.1
```

Kernel Parameters (/etc/system):

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

Processes were bound to CPUs using submit=pbind