



CFP2000 Result

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Sun Microsystems
Sun Fire V240 (1.28GHz)

SPECfp_rate2000 = 18.2

SPECfp_rate_base2000 = 16.2

SPEC license #: 6 | Tested by: Sun Microsystems, Santa Clara | Test date: Sep-2003 | Hardware Avail: Jan-2004 | Software Avail: May-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	203	18.3	2	190	19.5
171.swim	2	634	11.3	2	297	24.2
172.mgrid	2	435	9.61	2	435	9.61
173.applu	2	327	14.9	2	253	19.3
177.mesa	2	211	15.4	2	191	17.0
178.galgel	2	266	25.3	2	225	29.9
179.art	2	52.1	116	2	49.2	123
183.quake	2	152	19.8	2	147	20.6
187.facerec	2	226	19.5	2	204	21.6
188.amp	2	561	9.10	2	561	9.10
189.lucas	2	400	11.6	2	400	11.6
191.fma3d	2	502	9.70	2	473	10.3
200.sixtrack	2	258	9.88	2	244	10.4
301.apsi	2	379	15.9	2	379	15.9

Hardware

CPU: UltraSPARC IIIi
CPU MHz: 1280
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 36GB SEAGATE ST336607LSUN36G
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:384 -xprefetch=latx:1.6
-Qoption iropt -Atile:skewp:b6,-Ainline:cs=700
(no feedback)



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Notes/Tuning Information (Continued)

```
172.mgrid: basepeak=yes
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.quake: -fast -xipo=2 -xalias_level=strong -xprefetch_level=2
187.facerec: -fast -xipo=2 -xprefetch=latx:1.5
188.ammp:   basepeak=yes
189.lucas:  basepeak=yes
191.fma3d:  -fast -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):

```
autoup=900
```

```
tune_t_fsflushr=1
```