



CFP2000 Result

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Sun Microsystems
Sun Blade 2500 (1.6GHz)

SPECfp_rate2000 = 31.3

SPECfp_rate_base2000 = 27.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	120	30.8	2	109	34.0
171.swim	2	316	22.8	2	160	44.8
172.mgrid	2	230	18.2	2	230	18.1
173.applu	2	212	23.0	2	175	27.8
177.mesa	2	157	20.7	2	136	23.9
178.galgel	2	134	50.1	2	115	58.7
179.art	2	23.0	262	2	21.6	279
183.equake	2	75.9	39.7	2	70.3	42.9
187.facerec	2	101	43.7	2	99.6	44.3
188.amp	2	375	13.6	2	355	14.4
189.lucas	2	218	21.3	2	218	21.3
191.fma3d	2	313	15.6	2	287	17.0
200.sixtrack	2	203	12.6	2	193	13.2
301.apsi	2	281	21.4	2	275	21.9

Hardware

CPU: UltraSPARC IIIi
CPU MHz: 1600
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) off chip
L3 Cache: None
Other Cache: None
Memory: 8GB (8x1GB DIMM)
Disk Subsystem: 1 x 146GB 10K RPM SCSI
Other Hardware: None

Software

Operating System: Solaris 10
Compiler: Sun Studio 9
Sun Performance Library 9
File System: ufs
System State: Multi-User

Notes/Tuning Information

Compiler invocation:

C: 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)
172.mgrid: -fast -xipo=2



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Notes/Tuning Information (Continued)

```
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:   -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 -xcrossfile
```

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
```