



CFP2000 Result

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Sun Microsystems
Sun Blade 2500 (1.6GHz)

SPECfp_rate2000 = 15.7
SPECfp_rate_base2000 = 13.9

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	1	120	15.4	1	109	17.0
171.swim	1	314	11.4	1	160	22.5
172.mgrid	1	229	9.12	1	231	9.05
173.applu	1	212	11.5	1	175	13.9
177.mesa	1	157	10.3	1	136	11.9
178.galgel	1	136	24.8	1	114	29.5
179.art	1	23.3	129	1	21.0	144
183.equake	1	74.8	20.1	1	69.9	21.6
187.facerec	1	101	21.8	1	99.0	22.3
188.amp	1	373	6.84	1	355	7.18
189.lucas	1	218	10.6	1	218	10.6
191.fma3d	1	312	7.82	1	287	8.50
200.sixtrack	1	203	6.28	1	193	6.60
301.apsi	1	282	10.7	1	275	11.0

Hardware

CPU: UltraSPARC IIIi
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: 4GB (4x1GB 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.earth:  -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

```

Only one CPU in the system