



CFP2000 Result

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Sun Microsystems
Sun Blade 2500 (1.28GHz)

SPECfp_rate2000 = 17.7
SPECfp_rate_base2000 = 15.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	209	17.8	2	193	19.2
171.swim	2	656	11.0	2	261	27.5
172.mgrid	2	448	9.31	2	449	9.30
173.applu	2	336	14.5	2	267	18.3
177.mesa	2	208	15.6	2	191	17.0
178.galgel	2	291	23.2	2	252	26.7
179.art	2	51.6	117	2	48.7	124
183.equake	2	159	19.0	2	153	19.7
187.facerec	2	233	18.9	2	210	21.0
188.amp	2	575	8.88	2	581	8.79
189.lucas	2	702	6.61	2	477	9.73
191.fma3d	2	503	9.68	2	468	10.4
200.sixtrack	2	254	10.1	2	243	10.5
301.apsi	2	405	14.9	2	405	14.9

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 (8x1GB DIMM)
Disk Subsystem: 1x36GB 10K RPM SCSI
Other Hardware: None

Software

Operating System: Solaris 8 HW 5/03
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
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)
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.ammpp:  -fast -xipo=2 -xalias_level=std -lmopt -lm
189.lucas:  -fast -xprefetch_level=3 -Qoption iropt -Apf:pdl=1
            -Qoption f90comp -array_pad_rows,1977
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"

Kernel Parameters (/etc/system):

```

autoup=900
tune_t_fsflushr=1

```

Processes were bound to CPUs using submit=pbind