



CFP2000 Result

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Sun Microsystems
Sun Fire V880 (1200 MHz)

SPECfp_rate2000 = 82.8

SPECfp_rate_base2000 = 68.7

SPEC license #: 6 Tested by: Sun Microsystems Test date: Sep-2003 Hardware Avail: Sep-2003 Software Avail: Aug-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	221	67.1	8	210	70.9
171.swim	8	730	39.4	8	125	230
172.mgrid	8	440	37.9	8	440	37.9
173.applu	8	328	59.5	8	242	80.5
177.mesa	8	201	64.6	8	191	67.9
178.galgel	8	150	180	8	126	214
179.art	8	26.0	928	8	23.9	1010
183.quake	8	151	79.8	8	151	79.8
187.facerec	8	173	102	8	173	102
188.amp	8	391	52.3	8	362	56.3
189.lucas	8	692	26.8	8	692	26.8
191.fma3d	8	583	33.4	8	583	33.4
200.sixtrack	8	272	37.5	8	245	41.6
301.apsi	8	423	57.0	8	423	57.0

Hardware

CPU: UltraSPARC III Cu
CPU MHz: 1200
FPU: Integrated
CPU(s) enabled: 8 cores, 8 chips, 1 core/chip
CPU(s) orderable: 2,4,8
Parallel: No
Primary Cache: 32KBI+64KBD on chip
Secondary Cache: 8MB(I+D) off chip
L3 Cache: None
Other Cache: None
Memory: 16GB 8-way interleaved
Disk Subsystem: 1 x 36GB SEAGATE ST336605FSUN36G
Other Hardware: None

Software

Operating System: Solaris 9 8/03
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:3969 -xpagesize=64K -xprefetch=latx:1.6
-Qoption iropt -Atile:skewp,-Ainline:cs=700
(no feedback)



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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
            -Wc,-Qms_pipe-prefst,-Qms_pipe+prefolim=11
188.ammp:   -fast -xipo=2 -xalias_level=std -xpagesize=512K -lmopt -lm
200.sixtrack:-O -dalign -xchip=ultra3 -xarch=v8plusb -fsimple=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):

```

set autoup=900
set tune_t_fsflushr=1

```

Processes were bound to CPUs using submit=pbind