CFP2000 Result

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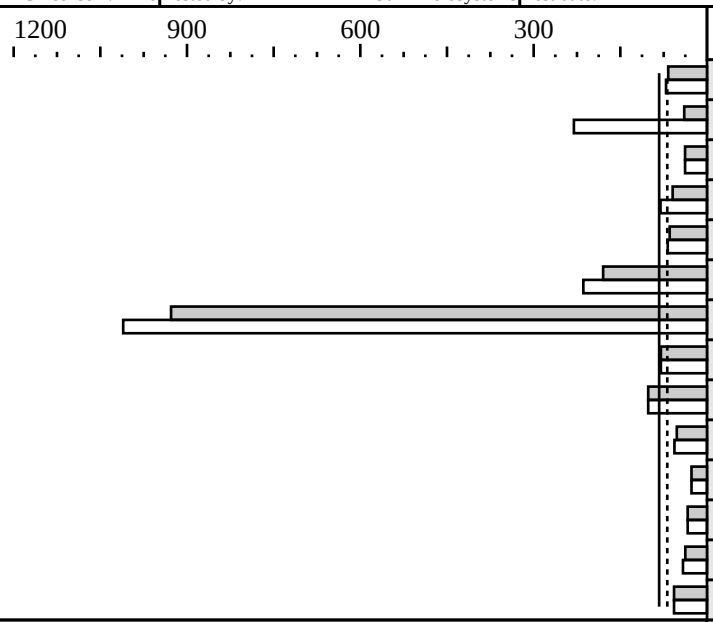
Sun Microsystems
Sun Fire V880 (1200 MHz)

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.equake	8	151	79.8	8	151	79.8
187.facerec	8	173	102	8	173	102
188.ammp	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
```