CFP2000 Result

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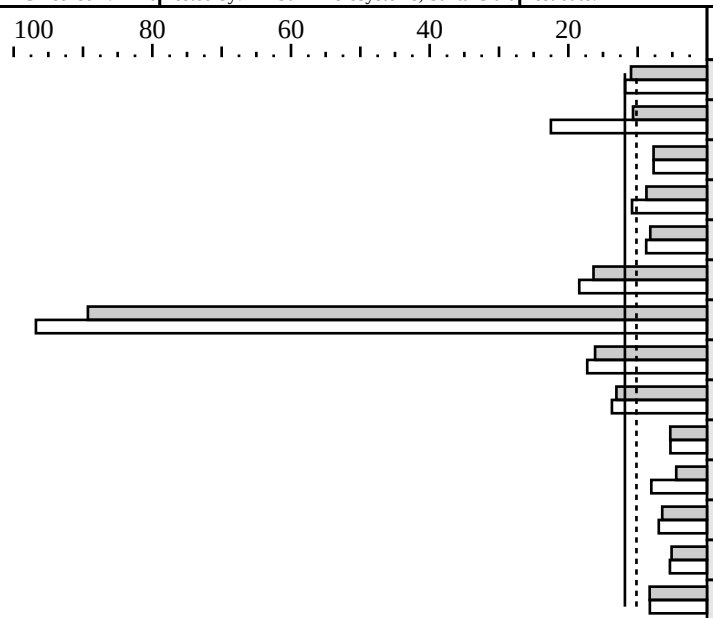
Sun Microsystems
Sun Blade 2500 (1.28GHz)

SPECfp_rate2000 = 11.8

SPECfp_rate_base2000 = 10.2

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	1	169	11.0	1	157	11.8
171.swim	1	337	10.7	1	160	22.5
172.mgrid	1	271	7.71	1	271	7.70
173.applu	1	279	8.73	1	225	10.8
177.mesa	1	199	8.18	1	185	8.77
178.galgel	1	206	16.4	1	183	18.4
179.art	1	33.8	89.3	1	31.2	96.8
183.equake	1	93.4	16.1	1	87.3	17.3
187.facerec	1	169	13.1	1	161	13.7
188.ammp	1	482	5.30	1	484	5.27
189.lucas	1	523	4.44	1	289	8.03
191.fma3d	1	377	6.46	1	350	6.95
200.sixtrack	1	250	5.11	1	239	5.35
301.apsi	1	365	8.27	1	366	8.24

Hardware

CPU:	UltraSPARC IIIi
CPU MHz:	1280
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) on chip
L3 Cache:	None
Other Cache:	None
Memory:	4GB (4x1GB 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.equake:   -fast -xipo=2 -xalias_level=strong -xprefetch_level=2
 187.facerec:  -fast -xipo=2 -xprefetch=latx:1.5
 188.ammp:     -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

System Settings:
 2nd cpu physically removed from system
```