CFP2000 Result

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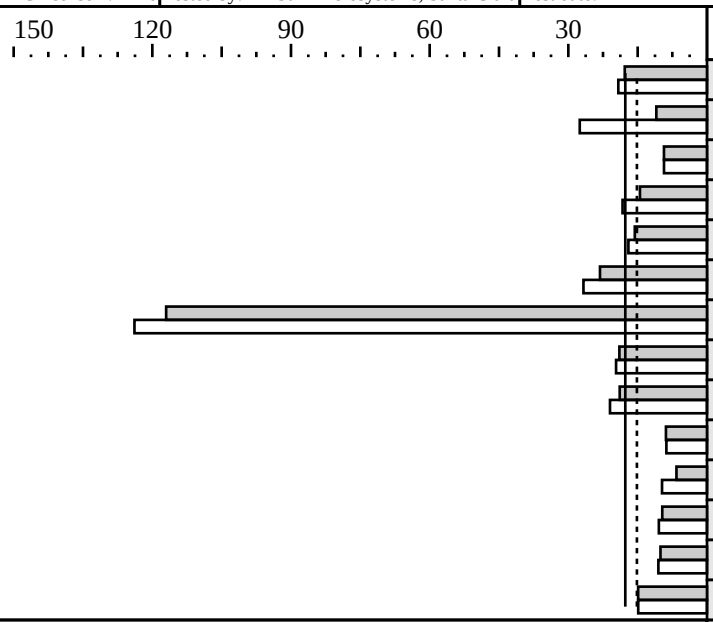
Sun Microsystems
Sun Blade 2500 (1.28GHz)

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.ammp	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.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

Processes were bound to CPUs using submit=pbind
```