CFP2000 Result

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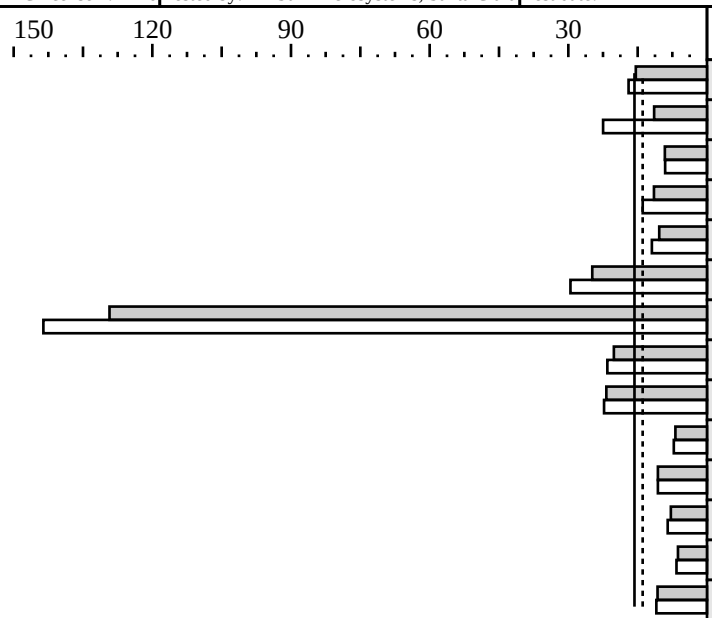
Sun Microsystems
Sun Blade 2500 (1.6GHz)

SPECfp_rate2000 = 15.7

SPECfp_rate_base2000 = 13.9

SPEC license #: 6 | Tested by: Sun Microsystems, Santa Clara | Test date: Dec-2004 | Hardware Avail: Feb-2005 | Software Avail: Jan-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	120	15.4	1	109	17.0
171.swim	1	314	11.4	1	160	22.5
172.mgrid	1	229	9.12	1	231	9.05
173.applu	1	212	11.5	1	175	13.9
177.mesa	1	157	10.3	1	136	11.9
178.galgel	1	136	24.8	1	114	29.5
179.art	1	23.3	129	1	21.0	144
183.equake	1	74.8	20.1	1	69.9	21.6
187.facerec	1	101	21.8	1	99.0	22.3
188.ammp	1	373	6.84	1	355	7.18
189.lucas	1	218	10.6	1	218	10.6
191.fma3d	1	312	7.82	1	287	8.50
200.sixtrack	1	203	6.28	1	193	6.60
301.apsi	1	282	10.7	1	275	11.0

Hardware

CPU:	UltraSPARC IIIi
CPU MHz:	1600
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) off chip
L3 Cache:	None
Other Cache:	None
Memory:	4GB (4x1GB DIMM)
Disk Subsystem:	1 x 146GB 10K RPM SCSI
Other Hardware:	None

Software

Operating System:	Solaris 10
Compiler:	Sun Studio 9 Sun Performance Library 9
File System:	ufs
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:3969 -xpagesize=64K -xprefetch=latx:1.6
              -Qoption iropt -Atile:skewp,-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 -xarch=v9b -xipo=2 -xalias_level=std -lmopt -lm
 189.lucas:    basepeak=yes
 191.fma3d:    -fast -xipo=2 -stackvar -xprefetch_level=3
               -Qoption iropt -Apf:pdl=1
 200.sixtrack:-xO4 -dalign -xchip=ultra3 -xarch=v8plusb -fsimple=2 -xprefetch=no
 301.apsi:     -fast  -xcrossfile

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):
 autoup=900
 tune_t_fsflushr=1

Only one CPU in the system
```