CFP2000 Result

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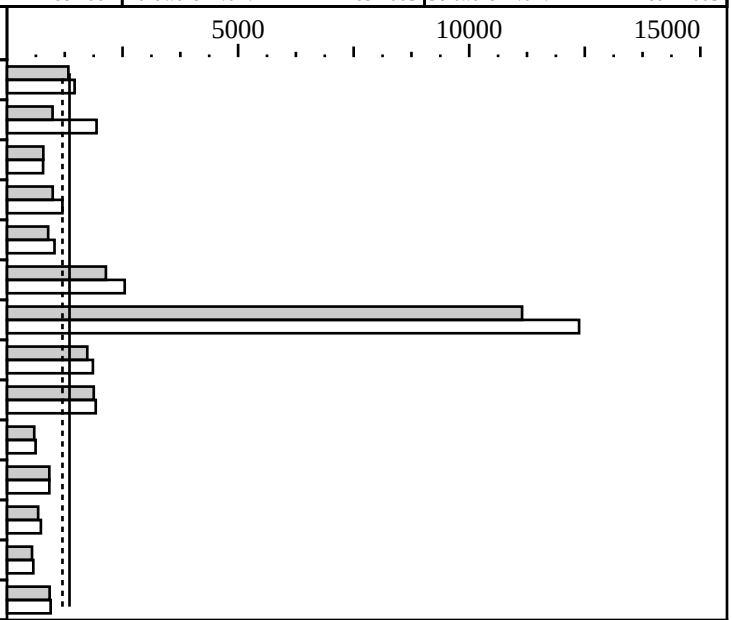
Sun Microsystems
Sun Blade 2500 (1.6GHz)

SPECfp2000 = 1353

SPECfp_base2000 = 1200

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	120	1328	109	1463
171.swim	3100	314	986	160	1938
172.mgrid	1800	229	786	231	781
173.applu	2100	212	989	175	1199
177.mesa	1400	157	891	136	1028
178.galgel	2900	136	2140	114	2547
179.art	2600	23.3	11144	21.0	12377
183.equake	1300	74.8	1737	69.9	1858
187.facerec	1900	101	1877	99.0	1920
188.ammp	2200	373	589	355	619
189.lucas	2000	218	916	218	916
191.fma3d	2100	312	674	287	733
200.sixtrack	1100	203	541	193	569
301.apsi	2600	282	922	275	945



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
```