CFP2000 Result

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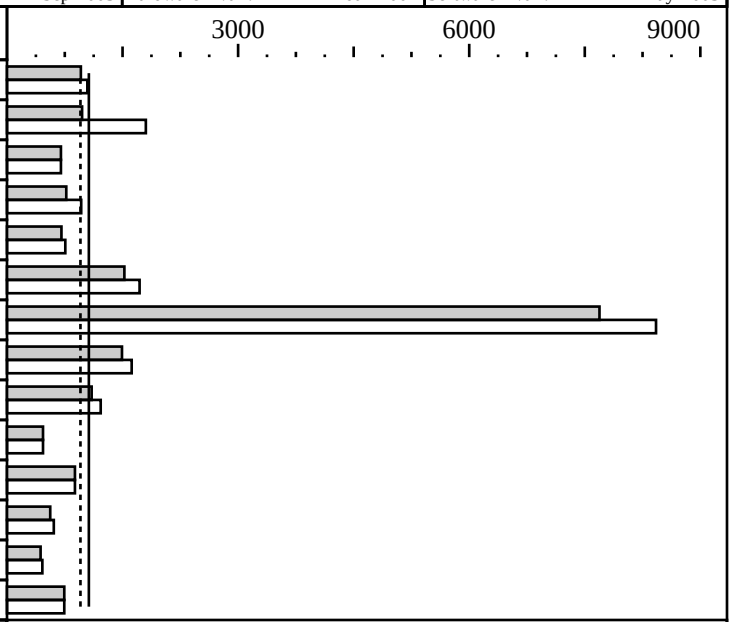
Sun Microsystems
Sun Fire V240 (1.28GHz)

SPECfp2000 = 1063

SPECfp_base2000 = 953

SPEC license #: 6 | Tested by: Sun Microsystems, Santa Clara | Test date: Sep-2003 | Hardware Avail: Jan-2004 | Software Avail: May-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	167	959	153	1043
171.swim	3100	318	975	172	1802
172.mgrid	1800	257	700	257	700
173.applu	2100	273	769	218	963
177.mesa	1400	198	707	185	757
178.galgel	2900	190	1524	169	1721
179.art	2600	33.8	7691	30.9	8425
183.equake	1300	87.1	1493	80.3	1618
187.facerec	1900	173	1099	156	1216
188.ammp	2200	471	467	471	467
189.lucas	2000	227	882	227	882
191.fma3d	2100	374	561	346	607
200.sixtrack	1100	252	436	240	459
301.apsi	2600	350	744	350	743



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 16-way interleaved
Disk Subsystem:	1 x 36GB SEAGATE ST336607LSUN36G
Other Hardware:	None

Software

Operating System:	Solaris 9 4/03
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:384 -xprefetch=latx:1.6
              -Qoption iropt -Atile:skewp:b6,-Ainline:cs=700
              (no feedback)
```

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Notes/Tuning Information (Continued)

```
 172.mgrid:   basepeak=yes
 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:    basepeak=yes
 189.lucas:   basepeak=yes
 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"
  MPSSHEAP=512K
  MPSSSTACK=512K
  LD_PRELOAD=mpss.so.1
Kernel Parameters (/etc/system):
 autoup=900
 tune_t_fsflushr=1
System Settings:
 2nd CPU physically removed from the system
```