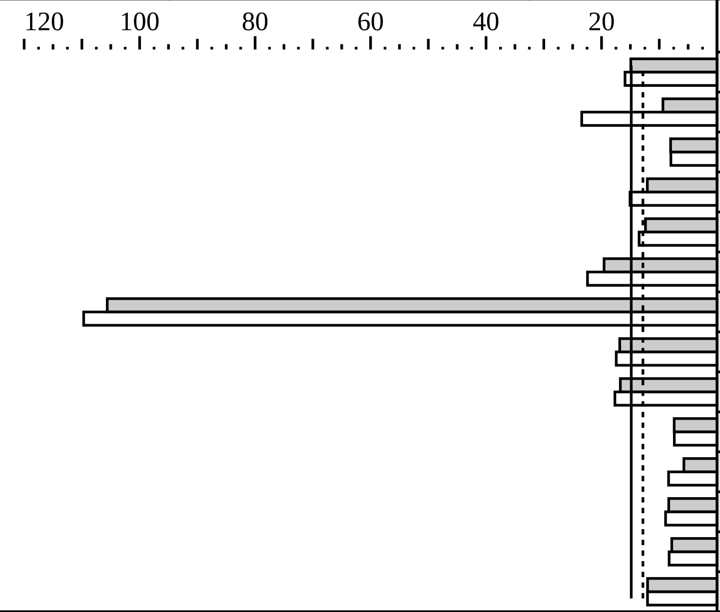
CFP2000 Result

Sun Microsystems
Sun Fire V210 (1002MHz)

SPECfp_rate2000 = 14.9
SPECfp_rate_base2000 = 12.8

SPEC license #:	6	Tested by:	Sun Microsystems	Test date:	Mar-2003	Hardware Avail:	May-2003	Software Avail:	May-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	249	14.9	2	233	15.9
171.swim	2	768	9.36	2	307	23.4
172.mgrid	2	520	8.04	2	523	7.99
173.applu	2	404	12.1	2	323	15.1
177.mesa	2	262	12.4	2	241	13.5
178.galgel	2	344	19.6	2	300	22.4
179.art	2	57.1	106	2	55.0	110
183.equake	2	179	16.8	2	173	17.5
187.facerec	2	263	16.7	2	249	17.7
188.ammp	2	688	7.41	2	691	7.39
189.lucas	2	809	5.74	2	553	8.39
191.fma3d	2	583	8.36	2	547	8.91
200.sixtrack	2	326	7.84	2	308	8.29
301.apsi	2	501	12.0	2	501	12.0

Hardware

CPU:	UltraSPARC IIIi
CPU MHz:	1002
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 16-way interleaved
Disk Subsystem:	1 x 36GB SEAGATE ST336605L
Other Hardware:	None

Software

Operating System:	Solaris 8 HW 12/02
Compiler:	Sun ONE Studio 8 (pre-FCS build 3/9) Sun Performance Library 8 (pre-FCS build 3/9)
File System:	ufs with ufs logging
System State:	Multi-User

Notes/Tuning Information

```
****************************************************************

  SPEC has determined that this result was not in compliance
  with the SPEC continued availability policy.  Specifically,
  although the configuration tested was available within the
  required 3 months of publication, it was then unavailable for
  a period of 30 days or more during the first 90 days after
  initial overall availability.  The vendor informs SPEC that
  the configuration is again available, on or before the date
  of this notice, 08/13/2003.

****************************************************************

Compiler invocation:
  C: cc
  CXX: CC
```

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SPEC license #: 6	Tested by: Sun Microsystems	Test date: Mar-2003	Hardware Avail: May-2003	Software Avail: May-2003

Notes/Tuning Information (Continued)

```
      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
     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 -xipo=2 -xprefetch_level=3 -Qoption iropt -Apf:pdl=1
                  -Qoption f90comp -array_pad_rows,1977
     191.fma3d:   -fast -xipo=2 -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"
      PRISM_HEAP=268435456
      PRISM_MODE=2


    Kernel Parameters (/etc/system):
      default
      autoup=900
      tune_t_fsflushr=1
```