CFP2000 Result

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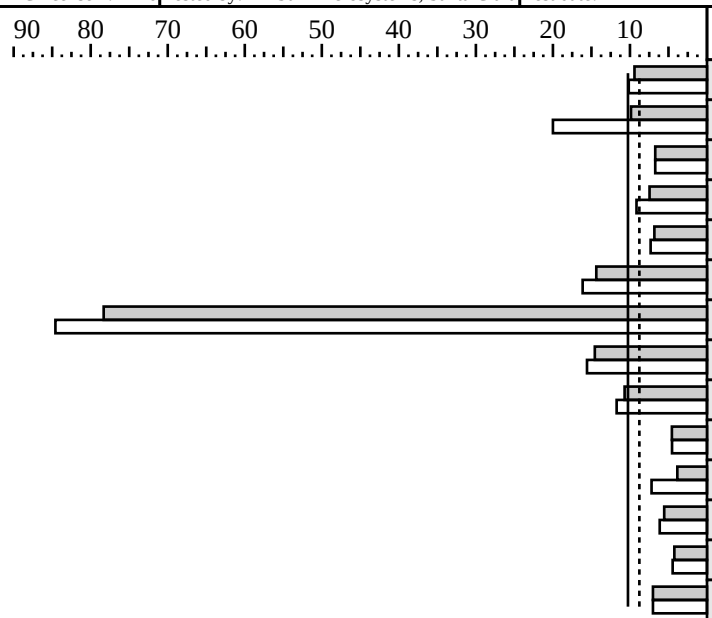
Sun Microsystems
Sun Blade 1500 (1.062GHz)

SPECfp_rate2000 = 10.3

SPECfp_rate_base2000 = 8.78

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	197	9.41	1	183	10.2
171.swim	1	365	9.87	1	180	20.0
172.mgrid	1	311	6.72	1	311	6.72
173.applu	1	327	7.46	1	266	9.15
177.mesa	1	238	6.83	1	222	7.32
178.galgel	1	234	14.4	1	208	16.1
179.art	1	38.5	78.3	1	35.7	84.6
183.equake	1	104	14.6	1	96.8	15.6
187.facerec	1	206	10.7	1	188	11.7
188.ammp	1	560	4.56	1	562	4.54
189.lucas	1	602	3.85	1	322	7.20
191.fma3d	1	439	5.55	1	397	6.14
200.sixtrack	1	301	4.24	1	286	4.46
301.apsi	1	430	7.02	1	430	7.02

Hardware

CPU:	UltraSPARC IIIi
CPU MHz:	1062
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	1MB(I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	4GB (4x1GB DIMM)
Disk Subsystem:	1 x 80GB IDE
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
```