



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.amp	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.quake: -fast -xipo=2 -xalias_level=strong -xprefetch_level=2
187.facerec: -fast -xipo=2 -xprefetch=latx:1.5
188.ampp:   -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
```