



# CFP2000 Result

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Sun Microsystems  
Sun Fire V240 (1503MHz)

SPECfp2000 = 1271  
SPECfp\_base2000 = 1136

SPEC license #: 6 Tested by: Sun Microsystems Test date: Dec-2004 Hardware Avail: Jan-2005 Software Avail: Jan-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	121	1325	121	1325
171.swim	3100	334	928	170	1823
172.mgrid	1800	244	739	244	737
173.applu	2100	227	924	186	1128
177.mesa	1400	167	840	143	980
178.galgel	2900	146	1992	123	2364
179.art	2600	23.9	10890	22.5	11552
183.earth	1300	80.3	1619	73.8	1761
187.facerec	1900	107	1774	105	1804
188.amp	2200	408	540	379	580
189.lucas	2000	230	870	230	870
191.fma3d	2100	325	647	294	715
200.sixtrack	1100	215	511	208	530
301.apsi	2600	296	878	295	881

### Hardware

CPU: UltraSPARC IIIi  
CPU MHz: 1503  
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 73GB  
Other Hardware: None

### Software

Operating System: Solaris 10  
Compiler: Sun Studio 9  
File System: ufs  
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: basepeak = yes  
171.swim: -fast -xpad=common:3969 -xpagesize=64K -xprefetch=latx:1.6  
-Option iropt -Atile:skewp,-Ainline:cs=700  
(no feedback)



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## Notes/Tuning Information (Continued)

```

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 -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 -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