



# CFP2000 Result

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Sun Microsystems  
Sun Fire V210 (1002MHz)

SPECfp2000 = 841  
SPECfp\_base2000 = 722

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	207	773	194	825
171.swim	3100	372	834	187	1661
172.mgrid	1800	326	552	326	552
173.applu	2100	346	607	283	742
177.mesa	1400	253	554	236	593
178.galgel	2900	244	1189	218	1331
179.art	2600	40.4	6431	37.5	6941
183.earth	1300	107	1214	100	1299
187.facerec	1900	217	876	198	958
188.amp	2200	587	375	592	372
189.lucas	2000	632	316	335	598
191.fma3d	2100	456	460	417	504
200.sixtrack	1100	321	342	305	361
301.apsi	2600	455	571	455	571

### Hardware

CPU: UltraSPARC IIIi  
CPU MHz: 1002  
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 8-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

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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.

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Compiler invocation:  
C: cc  
CXX: CC



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## 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.earthquake: -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

### System Settings:

2nd CPU physically removed from the system