



# CFP2000 Result

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Sun Microsystems  
Sun Blade Model 2050

SPECfp\_rate2000 = NC  
SPECfp\_rate\_base2000 = NC

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Nov-2001 Hardware Avail: Feb-2002 Software Avail: Feb-2002

**SPEC has determined that this result was not in compliance with the SPEC CPU2000 run and reporting rules. Specifically, the original tester has discovered that performance of the final system changed by more than 1.75% versus the tested system, and has requested that this result be marked non-compliant. Replacement results can be found at:**  
<http://www.spec.org/cpu2000/results/res2002q2/cpu2000-20020422-01316.asc>

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	NC	NC	2	NC	NC
171.swim	2	NC	NC	2	NC	NC
172.mgrid	2	NC	NC	2	NC	NC
173.applu	2	NC	NC	2	NC	NC
177.mesa	2	NC	NC	2	NC	NC
178.galgel	2	NC	NC	2	NC	NC
179.art	2	NC	NC	2	NC	NC
183.equake	2	NC	NC	2	NC	NC
187.facerec	2	NC	NC	2	NC	NC
188.ammp	2	NC	NC	2	NC	NC
189.lucas	2	NC	NC	2	NC	NC
191.fma3d	2	NC	NC	2	NC	NC
200.sixtrack	2	NC	NC	2	NC	NC
301.apsi	2	NC	NC	2	NC	NC

**Hardware**

CPU: UltraSPARC III Cu  
CPU MHz: 1050  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 2  
Parallel: No  
Primary Cache: 32KBI+64KBD on chip  
Secondary Cache: 8MB(I+D) off chip  
L3 Cache: None  
Other Cache: None  
Memory: 8GB  
Disk Subsystem: 2 x 73GB  
Other Hardware: None

**Software**

Operating System: Solaris 8 10/01  
Compiler: Forte Developer 7 EA  
File System: tmpfs  
System State: Multi-User

## Notes/Tuning Information

Portability:  
178.galgel: -e -fixed

Base Flags:  
Base C flags: -fast -xipo=2 -xalias\_level=std -xprofile



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## Notes/Tuning Information (Continued)

Base F90 flags: -fast -xcrossfile -lprism32 -xprofile

### Peak Flags:

168.wupwise: basepeak=yes  
171.swim: basepeak=yes  
172.mgrid: basepeak=yes  
173.applu: -fast -Qoption iropt -Adata\_access,-Mt7000,-Mm14000,-Mr40000,-Ma400,-whole  
-xregs=syst -Qoption iropt -Rscalarrep,-MR -Qoption cg -Qlp=1-av=192-fa=1  
-Qoption f90comp -O3  
177.mesa: -fast -xcrossfile -xalias\_level=strong -xprofile  
178.galgel: -fast -xcrossfile -xregs=syst -Qoption iropt -Addint:sf=9 -lsunperf -xprofile  
179.art: basepeak=yes  
183.earthquake: -fast -xalias\_level=strong -xdepend -W2,-whole,-Amemopt:arrayloc -xprefetch  
-Wc,-Qms\_pipe-pref,-Qlp=1-av=256-t=4-fa=1-fl=1 -lprism32 -lmopt -xprofile  
187.facerec: basepeak=yes  
188.ammp: -fast -xcrossfile -xalias\_level=std -lprism32 -xprofile  
189.lucas: -fast -Qoption f90comp -array\_pad\_rows,2002 -Qoption iropt -whole  
-xdepend -xprefetch -Qoption cg -Qms\_pipe-pref,-Qlp=1-t=3-fa=1  
-lprism32 -xprofile  
191.fma3d: -fast -xcrossfile -stackvar -xdepend -xprefetch  
-Qoption cg -Qlp=1-av=256-t=3-fa=1 -xprofile  
200.sixtrack: basepeak=yes  
301.apsi: -fast -Qoption iropt -Mt450 -lprism32 -xprofile

Forte Developer 7 EA (Early Access) will ship by Feb-2002  
Forte Developer 7 (final) will ship May-2002

ONESTEP=yes for all benchmarks in peak and Fortran benchmarks in base

### Shell Environments:

LD\_LIBRARY\_PATH=/usr/lib:/opt/fd7/lib/v8plusb:/opt/fd7/YNH/lib/v8plusb  
PRISM\_HEAP=268435456  
PRISM\_MODE=2

Stack size set to unlimited via "ulimit -s unlimited"

### Kernel Parameters (/etc/system):

set shmsys:shminfo\_shmmin=1  
set shmsys:shminfo\_shmmax=1477846784  
set shmsys:shminfo\_shmmni=256  
set shmsys:shminfo\_shmseg=400

System configuration details located (as of Nov 2001) at  
<http://www.sun.com/desktop/products/ws.html>