



CFP2000 Result

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Sun Microsystems
Sun Blade 1000 Model 900 Cu

SPECfp2000 = 731
SPECfp_base2000 = 629

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	272	589	272	589
171.swim	3100	335	925	335	925
172.mgrid	1800	383	470	383	470
173.applu	2100	735	286	387	542
177.mesa	1400	299	468	290	482
178.galgel	2900	198	1463	163	1775
179.art	2600	31.8	8176	31.8	8176
183.earthquake	1300	217	600	127	1020
187.facerec	1900	227	838	227	838
188.amp	2200	506	435	470	468
189.lucas	2000	565	354	348	575
191.fma3d	2100	577	364	551	381
200.sixtrack	1100	354	310	354	310
301.apsi	2600	613	424	548	475

Hardware

CPU: UltraSPARC III Cu
 CPU MHz: 900
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1-2
 Parallel: None
 Primary Cache: 32KBI+64KBD on chip
 Secondary Cache: 8MB(I+D) off chip
 L3 Cache: None
 Other Cache: None
 Memory: 2GB
 Disk Subsystem: 1 x 36GB
 Other Hardware: --

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

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

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Notes/Tuning Information (Continued)

```

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.ammamp: -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 (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 Dec 2001) at
<http://www.sun.com/desktop/products/ws.html>