



CFP2000 Result

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Sun Microsystems
Sun Blade 2000 (2x1.05GHz)

SPECfp2000 = 817

SPECfp_base2000 = 711

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|--------------|----------------|--------------|------------|---------|-------|
| 168.wupwise | 1600 | 242 | 660 | 242 | 660 |
| 171.swim | 3100 | 328 | 944 | 328 | 944 |
| 172.mgrid | 1800 | 376 | 479 | 376 | 479 |
| 173.applu | 2100 | 633 | 332 | 340 | 617 |
| 177.mesa | 1400 | 244 | 573 | 237 | 592 |
| 178.galgel | 2900 | 175 | 1655 | 144 | 2016 |
| 179.art | 2600 | 26.8 | 9713 | 26.8 | 9713 |
| 183.earth | 1300 | 200 | 651 | 119 | 1097 |
| 187.facerec | 1900 | 209 | 908 | 209 | 908 |
| 188.amp | 2200 | 435 | 505 | 401 | 548 |
| 189.lucas | 2000 | 519 | 385 | 341 | 586 |
| 191.fma3d | 2100 | 522 | 402 | 485 | 433 |
| 200.sixtrack | 1100 | 305 | 361 | 305 | 361 |
| 301.apsi | 2600 | 468 | 556 | 467 | 556 |

Hardware

CPU: UltraSPARC III Cu
CPU MHz: 1056
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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 02/02
Compiler: Forte Developer 7 with patch 111704-01
Sun Performance Library 7
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 -xlic_lib=sunperf -lsunperf -xprofile

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http://www.spec.org



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

```

Shell Environments:

```

LD_LIBRARY_PATH=/usr/lib:/opt/SUNWspro/lib/v8plusb:/opt/SUNWspro/prod/lib/v8plusb
PRISM_HEAP=268435456
PRISM_MODE=2

```

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

System Settings:

2nd cpu physically removed from system

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 Feb 2002) at
<http://www.sun.com/desktop/products/ws.html>