



CFP2000 Result

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Sun Microsystems
Sun Fire V480

SPECfp_rate2000 = 29.9

SPECfp_rate_base2000 = 26.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	297	25.0	4	297	25.0
171.swim	4	498	28.9	4	498	28.9
172.mgrid	4	495	16.9	4	495	16.9
173.applu	4	824	11.8	4	403	24.2
177.mesa	4	282	23.1	4	275	23.6
178.galgel	4	206	65.2	4	168	80.0
179.art	4	31.5	383	4	31.5	383
183.equake	4	251	24.0	4	158	38.1
187.facerec	4	240	36.7	4	240	36.7
188.amp	4	510	20.0	4	518	19.7
189.lucas	4	679	13.7	4	468	19.8
191.fma3d	4	644	15.1	4	581	16.8
200.sixtrack	4	482	10.6	4	482	10.6
301.apsi	4	554	21.8	4	554	21.8

Hardware

CPU: UltraSPARC III Cu
CPU MHz: 900
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
CPU(s) orderable: 2,4
Parallel: No
Primary Cache: 32KBI+64KBD on chip per CPU
Secondary Cache: 8MB(I+D) off chip per CPU
L3 Cache: None
Other Cache: None
Memory: 8GB
Disk Subsystem: 1 x 36GB + 1 x 18GB
Other Hardware: None

Software

Operating System: Solaris 8 02/02
Compiler: Sun ONE Studio 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 -xprofile

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http://www.spec.org



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Notes/Tuning Information (Continued)

```
179.art: basepeak=yes
183.quake: -fast -xalias_level=strong -W2,-whole,-Amemopt:arrayloc
           -Wc,-Qms_pipe-pref,-Qlp=1-av=256-t=4-fa=1-fl=1 -lprism32 -lmopt -xprofile
187.facerec: basepeak=yes
188.amp: -fast -xcrossfile -xalias_level=std -lprism32 -xprofile
189.lucas: -fast -Qoption f90comp -array_pad_rows,2002 -Qoption iropt -whole
           -Qoption cg -Qms_pipe-pref,-Qlp=1-t=3-fa=1
           -lprism32 -xprofile
191.fma3d: -fast -xcrossfile -stackvar -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"

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 Jun 2002) at
<http://www.sun.com/servers/entry/>