



CFP2000 Result

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

SPECfp_rate2000 = 16.8

SPECfp_rate_base2000 = 14.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	266	13.9	2	266	13.9
171.swim	2	533	13.5	2	533	13.5
172.mgrid	2	469	8.90	2	469	8.90
173.applu	2	758	6.43	2	359	13.6
177.mesa	2	242	13.4	2	235	13.8
178.galgel	2	176	38.3	2	144	46.6
179.art	2	26.8	225	2	26.8	225
183.quake	2	232	13.0	2	145	20.8
187.facerec	2	222	19.8	2	222	19.8
188.amp	2	447	11.4	2	426	12.0
189.lucas	2	715	6.49	2	461	10.1
191.fma3d	2	595	8.19	2	559	8.72
200.sixtrack	2	306	8.34	2	306	8.34
301.apsi	2	490	12.3	2	487	12.4

Hardware

CPU: UltraSPARC III Cu
 CPU MHz: 1056
 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 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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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.ammmp: -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"

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>