



CFP2000 Result

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Sun Microsystems
Sun Fire 6800

SPECfp_rate2000 = 140

SPECfp_rate_base2000 = 121

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

4000	3000	2000	1000	Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
				168.wupwise	24	393	113	24	393	113
				171.swim	24	1384	62.3	24	1384	62.3
				172.mgrid	24	933	53.7	24	933	53.7
				173.applu	24	1323	44.2	24	444	132
				177.mesa	24	245	159	24	238	164
				178.galgel	24	218	370	24	162	498
				179.art	24	32.6	2222	24	32.6	2222
				183.equake	24	340	106	24	297	122
				187.facerec	24	287	184	24	287	184
				188.amp	24	508	121	24	508	121
				189.lucas	24	1421	39.2	24	962	57.9
				191.fma3d	24	939	62.3	24	895	65.4
				200.sixtrack	24	331	92.4	24	331	92.4
				301.apsi	24	584	124	24	586	124

Hardware

CPU: UltraSPARC III Cu
 CPU MHz: 1050
 FPU: Integrated
 CPU(s) enabled: 24 cores, 24 chips, 1 core/chip
 CPU(s) orderable: 4-24, by 4
 Parallel: No
 Primary Cache: 32KBI+64KBD on chip
 Secondary Cache: 8MB(I+D) off chip per cpu
 L3 Cache: None
 Other Cache: None
 Memory: 48GB, 16-way interleave per board
 Disk Subsystem: 1x18GB
 4x(Sun StorEdge T3, 9x18GB raid5)
 4-way striped
 Other Hardware: None

Software

Operating System: Solaris 8 02/02
 Solstice DiskSuite, bundled
 Compiler: Forte Developer 7
 with patch 111704-01
 Sun Performance Library 7
 File System: UFS
 System State: Multi-User

Notes/Tuning Information

Portability:

178.galgel: -e -fixed

-xprofile: PASS1=-xprofile=collect, PASS2=-xprofile=use

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,

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http://www.spec.org



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Notes/Tuning Information (Continued)

```

-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
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 -lm -xprofile
187.facerec: basepeak=yes
188.ammp: basepeak=yes
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_shmmmin=1
set shmsys:shminfo_shmmmax=0xffffffffffffffff
set shmsys:shminfo_shmmni=4096
set shmsys:shminfo_shmseg=512

```

System configuration details located (as of May 2002) at
<http://www.sun.com/servers/midrange>