CFP2000 Result

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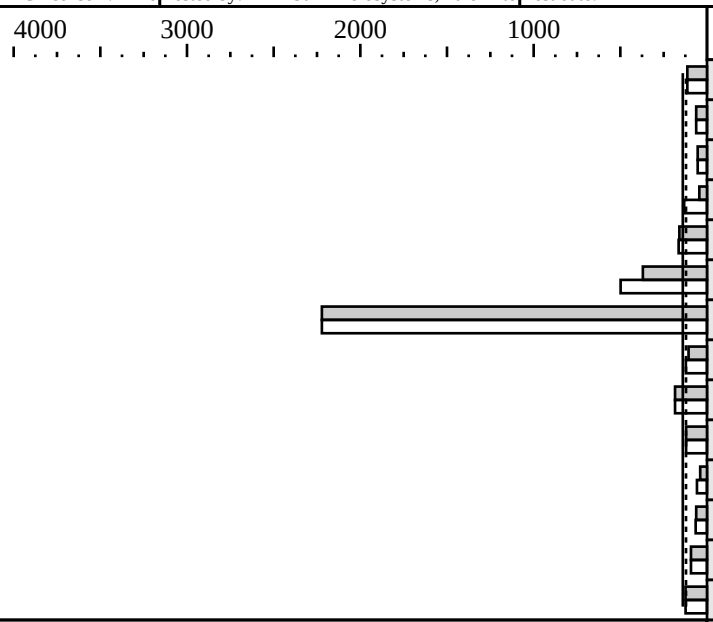
Sun Microsystems
Sun Fire 6800

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



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.ammp	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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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.equake: -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_shmmin=1
 set shmsys:shminfo_shmmax=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
```