



CFP2000 Result

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Fujitsu Limited
PRIMEPOWER250 (1100MHz)

SPECfp_rate2000 = 21.3

SPECfp_rate_base2000 = 17.8

SPEC license #: 19 | Tested by: Fujitsu Limited | Test date: May-2003 | Hardware Avail: Jul-2003 | Software Avail: May-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	369	10.1	2	171	21.7
171.swim	2	339	21.2	2	225	32.0
172.mgrid	2	279	15.0	2	256	16.3
173.applu	2	340	14.3	2	239	20.3
177.mesa	2	343	9.47	2	265	12.3
178.galgel	2	220	30.5	2	189	35.5
179.art	2	46.7	129	2	46.8	129
183.quake	2	105	28.6	2	95.2	31.7
187.facerec	2	198	22.2	2	178	24.8
188.amp	2	501	10.2	2	419	12.2
189.lucas	2	274	16.9	2	274	16.9
191.fma3d	2	377	12.9	2	337	14.4
200.sixtrack	2	312	8.19	2	310	8.25
301.apsi	2	374	16.1	2	373	16.2

Hardware

CPU: SPARC64 V
 CPU MHz: 1100
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
 CPU(s) orderable: 1 to 2 (increments of 1)
 Parallel: None
 Primary Cache: 128KBI+128KBD on chip
 Secondary Cache: 1MB(I+D) on chip
 L3 Cache: None
 Other Cache: None
 Memory: 8192MB
 Disk Subsystem: 1 x 36.4GB SCSI (10000rpm)
 Other Hardware: None

Software

Operating System: Solaris8 2/02 with current patches (see notes)
 Compiler: Fujitsu Parallelnavi 2.1 with patch 912528-02
 Sun ONE Studio 8
 (EA2 version of Sun ONE Studio 8 used)
 Sun Performance Library 8
 File System: ufs
 System State: multi user

Notes/Tuning Information

```
FDO: (for Parallelnavi 2.1)
  fdo_pre0=rm -rf `pwd`/*.f.d
  PASS1=-Kpg    PASS2=-Kpu
FDO: (for Sun ONE Studio 8)
  fdo_pre0=rm -rf ./feedback.profile ./SunWS_cache
  PASS1=-xprofile=collect:./feedback
  PASS2=-xprofile=use:./feedback
Baseline:
(using Fortran compiler of Sun ONE Studio 8 EA2)
  -fast -xtarget=ultra3 -lprism32 FDO
(using C compiler of Sun ONE Studio 8 EA2)
  -fast -xtarget=ultra3 -xipo=2 FDO ONESTEP=yes
Peak:
(for Parallelnavi 2.1)
168.wupwise: -fs -Kfast_GP2=2,largepage -O5 -x dir=./
             -Kpreex,prefetch_infer,alignl=64,preschedule_length=17 FDO
172.mgrid:  -fs -Kfast_GP2=2,largepage,GREG_SYSTEM
```



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```

-Kpreex,prefetch_line=6,commonpad=144,alignc=64 FDO
178.galgel: -fs -Kfast_GP2=2,largepage,GREG_SYSTEM -x dir=./
-Kpreex,prefetch_infer,prefetch=4,frecipro,unroll=2,commonpad=152,
arraypad_const=11,alignl=64 -Am -Fixed -KFMADD -SSL2 FDO
191.fma3d: -fs -Kfast_GP2=2,largepage,GREG_SYSTEM -x dir=./ -x55
-Kpreex,prefetch_infer,prefetch=4 FDO
(using FORTRAN90 compiler of Sun ONE Studio 8 EA2)
171.swim: -fast -xchip=ultra3cu -xcache=128/64/2:1024/64/2 -xarch=v8plusb
-xpad=common:4002 -xprefetch=latx:2.2
-Qoption iropt -Atile:skewp,-Ainline:cs=700 -lprism32
173.applu: -fast -xchip=ultra3 -xcache=128/64/2:1024/64/2 -xarch=v8plusb
-xipo=2 -xprefetch=latx:0.6 FDO ONESTEP=yes

187.facerec: -xO5 -xchip=ultra3 -xcache=128/64/2:1024/64/2 -xarch=v8plus
-xprefetch=yes -xprefetch_level=1 -xprefrtch=latx:2.0 -xvector=no
-xdepend -fttrap=%none -fns -fsimple=2 -lprism32 FDO ONESTEP=yes
189.lucas: basepeak=yes
200.sixtrack: -fast -xchip=ultra3 -xcache=128/64/2:1024/64/2 -xarch=v8plusb
-xipo=2 -lprism32 ONESTEP=yes
301.apsi: -fast -xchip=ultra3 -xcache=128/64/2:1024/64/2 -xarch=v8plusb
-xipo=2 -lprism32 FDO ONESTEP=yes

(using C compiler of Sun ONE Studio 8 EA2)
177.mesa: -fast -xchip=ultra2 -xcache=128/64/2:1024/64/2 -xarch=v8plusb
-xipo=2 -xrestrict -xalias_level=strong
-Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qms_pipe+unoovf FDO ONESTEP=yes
179.art: -fast -xchip=ultra3 -xcache=128/64/2:1024/64/2 -xarch=v8plusb
-xipo=2 -xalias_level=std FDO ONESTEP=yes
183.equake: -fast -xchip=ultra3cu -xcache=128/64/2:1024/64/2 -xarch=v8plusb
-xalias_level=strong -xdepend -W2,-whole,-Amemopt:arrayloc -xprefetch
-Wc,-Qms_pipe-pref,-Qlp=1-av=512-t=6-fa=1-fl=1 -lprism32 -lmopt -lm FDO ONESTEP=yes
188.ammp: -fast -xchip=ultra3 -xcache=128/64/2:1024/64/2 -xarch=v8plusb
-xipo=2 -xrestrict -xalias_level=std -xdepend -xprefetch=latx:2.6
-lprism32 FDO ONESTEP=yes

```

Portability:

Base:

178.galgel: -e -fixed (for Sun ONE Studio 8 EA2)

Peak:

178.galgel: -Am -Fixed (for Parallelnavi 2.1)

Note:

System Tunables: (for /etc/system)

consistent_coloring=1,

shmsys:shminfo_shmmax=2147483648, shmsys:shminfo_shmmni=256,

shmsys:shminfo_shmseg=400,shminfo_shmmni=1

set tune_t_fsflushr = 86400

set autoup = 86400

(for /etc/opt/FJSVpnm/lpg.conf)

TSS=1024M, SHMSEGSIZE=256M

Shell Environments:

LD_LIBRARY_PATH="/opt3/SUNWspro/prod/lib/v8plusb"

PRISM_HEAP=268435456

PRISM_MODE=2

Feedback directed optimization was used except 171.swim(peak).

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

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Sun ONE Studio 8 EA2 (Early Access 2), posted at URL <http://access1.sun.com/s1sprod8> as updated through 27-Mar-2003, was used for this submission.

Sun ONE Studio 8 (final) will ship May-2003.

All patches for Solaris8 posted at

http://access1.sun.com/patch.public/cgi-bin/show_list.cgi/wrk/Sun_ONE_Studio_7_SPARC_SunOS_5.8 as of date 2003/04/21 were applied: 108434-11, 108435-11, 111697-04, 111721-03.