CFP2000 Result

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Fujitsu Limited
PRIMEPOWER900 (1350MHz)

SPECfp2000 = NC

SPECfp_base2000 = NC

SPEC license #: 19 | Tested by: Fujitsu Limited | Test date: Oct-2002 | Hardware Avail: Jan-2003 | Software Avail: Jan-2003

SPEC has determined that this result was not in compliance with the SPEC CPU2000 run and reporting rules. Specifically, the tester has reported that the 3 month availability requirement in the SPEC CPU2000 run rules will not be met due to a change in availability of the hardware.

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	NC	NC	NC	NC
171.swim	3100	NC	NC	NC	NC
172.mgrid	1800	NC	NC	NC	NC
173.applu	2100	NC	NC	NC	NC
177.mesa	1400	NC	NC	NC	NC
178.galgel	2900	NC	NC	NC	NC
179.art	2600	NC	NC	NC	NC
183.equake	1300	NC	NC	NC	NC
187.facerec	1900	NC	NC	NC	NC
188.ammp	2200	NC	NC	NC	NC
189.lucas	2000	NC	NC	NC	NC
191.fma3d	2100	NC	NC	NC	NC
200.sixtrack	1100	NC	NC	NC	NC
301.apsi	2600	NC	NC	NC	NC

Hardware

CPU:	SPARC64 V
CPU MHz:	1350
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	4 to 16
Parallel:	None
Primary Cache:	128KBI+128KBD on chip
Secondary Cache:	2MB(I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	4096MB
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 2.0.1 with patch 912245-01 Sun ONE Studio 7 with current patches (see notes) Sun Performance Library 7
File System:	ufs
System State:	multi user

Notes/Tuning Information

```
FDO: (for Parallelnavi 2.0.1)
   fdo_pre0=rm -rf ‘pwd‘/*.*.d
   PASS1=-Kpg    PASS2=-Kpu
FDO: (for Sun ONE Studio 7)
   fdo_pre0=rm -rf ‘pwd‘/../feedback.profile ‘pwd‘/SunWS_cache
   PASS1=-xprofile=collect:‘pwd‘/../feedback
```


Non-Compliant

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Notes/Tuning Information (Continued)

```
   PASS2=-xprofile=use:'pwd'/../feedback
Baseline:
(using Fortran compiler of Parallelnavi 2.0.1)
   -Kfast_GP2=2,prefetch_infer,largepage -O5
(using C compiler of Sun ONE Studio 7)
   -fast -xtarget=ultra2 -xipo=2 FDO
Peak:
(for Parallelnavi 2.0.1)
168.wupwise: -fs -Kfast_GP2=2,largepage -O5 -x dir=../../src
    -Kpreex,prefetch_infer,alignl=64,preschedule_length=17 FDO
171.swim: -fs -Kfast_GP2=2,largepage,GREG_SYSTEM -O5
    -Kpreex,commonpad=168,prefetch_cache_level=3,prefetch_line_L2=6,
    prefetch_line=6,frecipro,prefetch=4 FDO
172.mgrid: -fs -Kfast_GP2=2,largepage,GREG_SYSTEM -Kpreex,prefetch_line=6,commonpad=144,alignc=64 FDO
178.galgel: -fs -Kfast_GP2=2,largepage,GREG_SYSTEM -Kpreex,prefetch_infer,prefetch=4,
    frecipro,unroll=2,commonpad=152,arraypad_const=11,alignl=64 -x dir=../../src
    -KFMADD -SSL2 FDO
189.lucas: -fs -Kfast_GP2=2,largepage,GREG_SYSTEM -O5 -Kpreex,prefetch_infer,
    prefetch_line=6,preschedule_length=70 FDO
191.fma3d: -fs -Kfast_GP2=2,largepage,GREG_SYSTEM -x dir=../../src
    -x50 -Kpreex,prefetch_infer,prefetch=4 FDO
200.sixtrack: -fs -Kfast_GP2=2,largepage,GREG_SYSTEM -O5
    -Kunroll=2,preex,prefetch_line=6,frecipro,novfunc,preschedule_length=40 FDO
(using FORTRAN77 compiler of Sun ONE Studio 7)
173.applu: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb
    -Qoption iropt -Adata_access,-Mt7000,-Mm14000,-Mr40000,-Ma400,-whole -xregs=syst
    -Qoption iropt -Rscalarrep,-MR -Qoption cg -Qlp=1-av=128-t=2-fa=1-fl=1
    -Qoption f90comp -O3 -Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 ONESTEP=yes
301.apsi: -fast -xchip=ultra3cu -xcache=128/64/2:2048/64/4
    -xarch=v8plus -Qoption iropt -Mt450
    -xdepend -xregs=syst -xprefetch -lprism32 FDO ONESTEP=yes
(using FORTRAN90 compiler of Sun ONE Studio 7)
187.facerec: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4
   -xarch=v8plus -xcrossfile -Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xregs=syst -xprefetch -lprism32 FDO ONESTEP=yes
(using C compiler of Sun ONE Studio 7)
177.mesa: -fast -xchip=ultra2 -xcache=128/64/2:2048/64/2
    -xarch=v8plusa -xcrossfile
    -Wc,-Qgsched-trace_late=1,-Qgsched-T4 FDO ONESTEP=yes
179.art: -fast -xchip=ultra3cu -xcache=128/64/2:2048/64/4 -xarch=v8plusb -xipo=2 -xalias_level=std FDO ONESTEP=yes
183.equake: -fast -xchip=ultra3cu -xcache=128/64/2:2048/64/4 -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=128/64/2:2048/64/2 -xarch=v8plusb
   -xcrossfile -xrestrict -xalias_level=strong -xdepend -xprefetch -lprism32 FDO ONESTEP=yes
```

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Notes/Tuning Information (Continued)

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Portability:
178.galgel: -Am -Fixed (for Parallelnavi 2.0.1)
187.facerec: -Am (for Parallelnavi 2.0.1)
191.fma3d: -Am (for Parallelnavi 2.0.1)

Note:
 System Tunables: (for /etc/system)
 consistent_coloring=1,
 shmsys:shminfo_shmmax=2147483648, shmsys:shminfo_shmmni=256,
 shmsys:shminfo_shmseg=400,shminfo_shmmin=1
 set tune_t_fsflushr = 86400
 set autoup = 86400
(for /etc/opt/FJSVpnrm/lpg.conf)
 TSS=512M, SHMSEGSIZE=256M
Shell Environments:
 LD_LIBRARY_PATH="/opt/FSUNf90/lib:/space/SUNWspro/prod/lib:/usr/lib"
 PRISM_HEAP=268435456
 PRISM_MODE=2
Feedback directed optimization was used except Fortran baseline and 173.applu(peak).
Small configuration memory system mode used ("4cpu mode", enabled via front panel).
Stack size set to unlimited via "ulimit -s unlimited"
System board used with only one CPU present.
All patches of Sun ONE Studio 7 posted at URL http://access1.sun.com/sundev/s1s7-patches.html
   as of date 2002/09/24 were applied: 111704-04, 111705-02, 111706-02, 111708-01, 111709-02,
   111714-02, 111715-01, 111716-02, 111718-01, 111723-01.
All patches for Sun_ONE_Studio_7_SPARC_SunOS_5.8 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 2002/09/24 were applied: 108434-08, 108435-08, 111697-03, 111721-02.
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