



CFP2000 Result

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Fujitsu Limited
PRIMEPOWER900 (1350MHz)

SPECfp2000 = NC
SPECfp_base2000 = NC

SPEC license #: 19 | Tested by: Fujitsu Limited | Test date: Sep-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	1	2	3	4	5
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.quake	1300	NC	NC	NC	NC					
187.facerec	1900	NC	NC	NC	NC					
188.amp	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: 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 2.0.1 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
```



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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 -xchip=ultra3 -xipo=2 FDO

Peak:

(for Parallelnavi 2.0.1)

168.wupwise: -fs -Kfast_GP2=2,largepage -O5 -x dir=../../src

-Kpreex,prefetch_infer,prefetch_line=5,GREG_SYSTEM,alignl=64,preex FDO

171.swim: -fs -Kfast_GP2=2,largepage -O5

-Kpreex,commonpad=168,prefetch_cache_level=3,prefetch_line_L2=6,
prefetch_line=6,frecipro,GREG_SYSTEM,prefetch=4 FDO

172.mgrid: -fs -Kfast_GP2=2,largepage -KGREG_SYSTEM,prefetch_line=8,commonpad=144,alignc=64 FDO

178.galgal: -fs -Kfast_GP2=2,largepage -KGREG_SYSTEM,preex,unroll=2,prefetch_line=6,

commonpad=88,arraypad_const=11,alignl=64 -x dir=../../src

-KFMADD -SSL2 FDO

189.lucas: -fs -Kfast_GP2=2,largepage -O5 -Kpreex,auto,prefetch=2,

prefetch_infer,prefetch_line=7,GREG_SYSTEM,preschedule_length=150 FDO

200.sixtrack: -fs -Kfast_GP2=2,largepage -O5

-Kunroll=2,preex,prefetch_line=6,frecipro,preschedule_length=90,novfunc 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=4-fa=1

-Qoption f90comp -O3 -Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 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 -lprism32 FDO ONESTEP=yes

191.fma3d: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb

-xcrossfile -stackvar -xdepend -xprefetch -Qoption cg

-Qlp=1-av=448-t=11-fa=1 -lprism32 FDO ONESTEP=yes

301.apsi: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4

-xarch=v8plusb -Qoption iropt -Mt450 -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 -xalias_level=strong -xtarget=ultra2

-Wc,-Qgsched-trace_late=1,-Qgsched-T4 FDO ONESTEP=yes

179.art: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/2 -xarch=v8plusb -xipo=2 -xalias_level=std FDO ONESTEP=yes

183.equake: -fast -xchip=ultra3 -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=384-t=8-fa=1-fl=1 -lprism32 -lmopt -lm FDO ONESTEP=yes

188.ammp: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plus

-xcrossfile -xrestrict -xalias_level=strong -xdepend -xarch=v8plus -xprefetch -lprism32 FDO ONESTEP=yes

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Notes/Tuning Information (Continued)

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_shmmni=1
set tune_t_fsflushr = 86400
set autoup = 86400
(for /etc/opt/FJSVpnrmlpg.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/sls7-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.