

Kiwi

Last login: Thu Dec 12 18:37:31 on ttys000

jeffreybillings@Mac ~ %

jeffreybillings@Mac ~ %

jeffreybillings@Mac ~ %

jeffreybillings@Mac ~ %

jeffreybillings@Mac ~ % ssh debian@kiwisdr

Debian GNU/Linux 11

BeagleBoard.org Debian Bullseye Minimal Image 2023-10-07

Support: <https://bbb.io/debian>

default username:password is [debian:tempPWD]

debian@kiwisdr's password:

Permission denied, please try again.

debian@kiwisdr's password:

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in `/usr/share/doc/*/copyright`.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

Last login: Tue Aug 6 03:15:36 2024 from 192.168.1.52

debian@kiwisdr:~\$ sudo su

[sudo] password for debian:

root@kiwisdr:/home/debian# cd KiwiSDR

bash: cd: KiwiSDR: No such file or directory

root@kiwisdr:/home/debian# gup

fatal: not a git repository (or any of the parent directories): .git

fatal: not a git repository (or any of the parent directories): .git

fatal: not a git repository (or any of the parent directories): .git

root@kiwisdr:/home/debian# ls

root@kiwisdr:/home/debian# cd/

bash: cd/: No such file or directory

root@kiwisdr:/home/debian# cd ..

root@kiwisdr:/home# cd ..

root@kiwisdr:/# gup

fatal: not a git repository (or any of the parent directories): .git

fatal: not a git repository (or any of the parent directories): .git

fatal: not a git repository (or any of the parent directories): .git

root@kiwisdr:/# cd KiwiSDR

```
bash: cd: KiwiSDR: No such file or directory
root@kiwisdr:/# cd ..
root@kiwisdr:/# cd /KiwiSDR
bash: cd: /KiwiSDR: No such file or directory
root@kiwisdr:/# cd /KiwiSDR
bash: cd: /KiwiSDR: No such file or directory
root@kiwisdr:/# cd KiwiSDR
bash: cd: KiwiSDR: No such file or directory
root@kiwisdr:/# ls
bin dev home lib media opt root sbin sys usr
boot etc ID.txt lost+found mnt proc run srv tmp var
root@kiwisdr:/#
root@kiwisdr:/#
root@kiwisdr:/#
root@kiwisdr:/# cdp
bash: cd: /root/Beagle_SDR_GPS: No such file or directory
root@kiwisdr:/# gup
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
root@kiwisdr:/# up
bash: up: command not found
root@kiwisdr:/# whoami
root
root@kiwisdr:/# sudo su
root@kiwisdr:/# cd /home/debian#
bash: cd: /home/debian#: No such file or directory
root@kiwisdr:/# cd /home/
root@kiwisdr:/home# cdp
bash: cd: /root/Beagle_SDR_GPS: No such file or directory
root@kiwisdr:/home# up
bash: up: command not found
root@kiwisdr:/home# gup
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
root@kiwisdr:/home# cd debian/
root@kiwisdr:/home/debian# gup
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
root@kiwisdr:/home/debian# up
bash: up: command not found
root@kiwisdr:/home/debian# cdp
```

```
bash: cd: /root/Beagle_SDR_GPS: No such file or directory
root@kiwisdr:/home/debian# dog
Debian 11.9
BeagleBoard.org Debian Bullseye Minimal Image 2023-10-07
Linux kiwisdr 5.10.168-ti-r77 #1bullseye SMP PREEMPT Wed Feb 28 21:05:58 UTC
2024 armv7l GNU/Linux
Debian GNU/Linux 11 (bullseye)
root@kiwisdr:/home/debian# ls
root@kiwisdr:/home/debian# ls -a
. .bash_history .bashrc .gitconfig .xsessionrc
.. .bash_logout .config .profile
root@kiwisdr:/home/debian# gup
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
root@kiwisdr:/home/debian# cd root
bash: cd: root: No such file or directory
root@kiwisdr:/home/debian# cd ..
root@kiwisdr:/home# ls
debian
root@kiwisdr:/home# gup
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
fatal: not a git repository (or any of the parent directories): .git
root@kiwisdr:/home# whoami
root
root@kiwisdr:/home# ls
debian
root@kiwisdr:/home# cd ..
root@kiwisdr:/# ls
bin dev home lib media opt root sbin sys usr
boot etc ID.txt lost+found mnt proc run srv tmp var
root@kiwisdr:/# cd KiwiSDR
bash: cd: KiwiSDR: No such file or directory
root@kiwisdr:/# gclone KiwiSDR
Cloning into 'KiwiSDR'...
remote: Enumerating objects: 2211, done.
remote: Counting objects: 100% (2211/2211), done.
remote: Compressing objects: 100% (1648/1648), done.
remote: Total 2211 (delta 533), reused 2173 (delta 497), pack-reused 0 (from 0)
Receiving objects: 100% (2211/2211), 10.85 MiB | 851.00 KiB/s, done.
Resolving deltas: 100% (533/533), done.
Updating files: 100% (1861/1861), done.
root@kiwisdr:/# cd KiwiSDR
```

```
root@kiwisdr:/KiwiSDR# gup
Updated 0 paths from the index
hint: Pulling without specifying how to reconcile divergent branches is
hint: discouraged. You can squelch this message by running one of the following
hint: commands sometime before your next pull:
hint:
hint: git config pull.rebase false # merge (the default strategy)
hint: git config pull.rebase true # rebase
hint: git config pull.ff only # fast-forward only
hint:
hint: You can replace "git config" with "git config --global" to set a default
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
hint: invocation.
POST git-upload-pack (144 bytes)
From https://github.com/jks-prv/KiwiSDR
 = [up to date] master -> origin/master
 = [up to date] develop -> origin/develop
Already up to date.
root@kiwisdr:/KiwiSDR# mc
```

```
(cd extensions/ALE_2G/standalone_test; make clean)
make[1]: Entering directory '/KiwiSDR/extensions/ALE_2G/standalone_test'
rm -f ./ale_2g
make[1]: Leaving directory '/KiwiSDR/extensions/ALE_2G/standalone_test'
(cd extensions/HFDL; make hfdl_clean)
make[1]: Entering directory '/KiwiSDR/extensions/HFDL'
rm -rf dumphfdl/build
make[1]: Leaving directory '/KiwiSDR/extensions/HFDL'
(cd extensions/FT8; make ft8_clean)
make[1]: Entering directory '/KiwiSDR/extensions/FT8'
(cd ft8_lib; make clean)
make[2]: Entering directory '/KiwiSDR/extensions/FT8/ft8_lib'
rm -rf .build gen_ft8 decode_ft8 test_ft8
make[2]: Leaving directory '/KiwiSDR/extensions/FT8/ft8_lib'
make[1]: Leaving directory '/KiwiSDR/extensions/FT8'
rm -rf obj obj_O3 obj_keep kiwi.bin kiwid.bin *.dSYM web/edata*
rm -rf *.dSYM pas extensions/ext_init.cpp kiwi.gen.h kiwid kiwid.aout
kiwid_realtime.bin .comp_ctr
(cd /root/KiwiSDR/e_cpu; make clean)
make[1]: Entering directory '/root/KiwiSDR/e_cpu'
rm -rf .././build/tools/asm* .././build/gen
make[1]: Leaving directory '/root/KiwiSDR/e_cpu'
(cd /root/KiwiSDR/verilog/rx; make clean)
```

```
make[1]: Entering directory '/root/KiwiSDR/verilog/rx'
rm -rf ../.././build/tools/cic* ../.././build/gen
make[1]: Leaving directory '/root/KiwiSDR/verilog/rx'
(cd /root/KiwiSDR/tools; make clean)
make[1]: Entering directory '/root/KiwiSDR/tools'
rm -f cw ansi audio integrate hog multiply ext64 decimate security e1b_fec
viterbi27_test e1b_code multiply2 dx_huge *.o *.d *.dat *.xz
make[1]: Leaving directory '/root/KiwiSDR/tools'
(cd /root/KiwiSDR/pkgs/noip2; make clean)
make[1]: Entering directory '/root/KiwiSDR/pkgs/noip2'
rm -f ../.././build/gen/noip2*
make[1]: Leaving directory '/root/KiwiSDR/pkgs/noip2'
(cd /root/KiwiSDR/pkgs/EiBi; make clean)
make[1]: Entering directory '/root/KiwiSDR/pkgs/EiBi'
rm -f eibi_proc *.o *.d eibi.csv sked-current.csv EiBi.h.prev README.txt
make[1]: Leaving directory '/root/KiwiSDR/pkgs/EiBi'
rm -rf pru/pru_realtime.bin pru/pru_realtime.lst pru/pru_realtime.txt ../build/tools/
file_optim
# but not ../build/obj_keep
rm -rf ../build/kiwi* ../build/gen ../build/obj ../build/obj_O3
rm -f Makefile.1
```

```
update /root/KiwiSDR.files for BINARY_INSTALL
lftp -e 'open http://distro.kiwisdr.com/ && mirror -c --delete --delete-first . /root/
KiwiSDR.files && exit'
cd ok, cwd=/
Total: 18 directories, 39 files, 0 symlinks
root@kiwisdr:/KiwiSDR#
root@kiwisdr:/KiwiSDR# m
```

```
disable unwanted services
(cd /root/KiwiSDR/e_cpu; make OTHER_DIR="")
make[1]: Entering directory '/root/KiwiSDR/e_cpu'
clang++-11 -I. -I./asm -I. -D_GNU_SOURCE -g asm/asm.cpp asm/asm_util.cpp
-o ../.././build/tools/asm
../.././build/tools/asm -o ../.././build/gen
assembling kiwi.asm to: ../.././build/gen/kiwi.aout, ../.././build/gen/ecode.aout.h
#include file: ./other.config
#include file: ../kiwi.config
#include_other file: (ignored) other.cmds.asm
#include file: kiwi.sdr.asm
#include file: kiwi.gps.asm
#include_other file: (ignored) other.asm
generating include file: ../verilog/kiwi.cfg.vh
```

```
generating include file: ../../build/gen/other.gen.h
generating include file: ../verilog/other.gen.vh
generating include file: ../../build/gen/kiwi.gen.h
generating include file: ../verilog/kiwi.gen.vh
used 1475/2048 CPU RAM (573 insns remaining)
```

```
make[1]: Leaving directory '/root/KiwiSDR/e_cpu'
(cd /root/KiwiSDR/e_cpu; make gen_other OTHER_DIR="")
make[1]: Entering directory '/root/KiwiSDR/e_cpu'
clang++-11 -I. -I./asm -I. -D_GNU_SOURCE -g asm/asm.cpp asm/asm_util.cpp
-o ../../build/tools/asm
../../build/tools/asm -o ../../build/gen -g
assembling kiwi.asm to: ../../build/gen/kiwi.aout, ../../build/gen/encode.aout.h
#include file: ./other.config
#include file: ../kiwi.config
#include_other file: (ignored) other.cmds.asm
#include file: kiwi.sdr.asm
#include file: kiwi.gps.asm
#include_other file: (ignored) other.asm
generating include file: ../../build/gen/other.gen.h
generating include file: ../verilog/other.gen.vh
used 1475/2048 CPU RAM (573 insns remaining)
```

```
make[1]: Leaving directory '/root/KiwiSDR/e_cpu'
(cd /root/KiwiSDR/e_cpu; make no_gen OTHER_DIR="")
make[1]: Entering directory '/root/KiwiSDR/e_cpu'
../../build/tools/asm -n -o ../../build/gen
assembling kiwi.asm to: ../../build/gen/kiwi.aout, ../../build/gen/encode.aout.h
#include file: ./other.config
#include file: ../kiwi.config
#include_other file: (ignored) other.cmds.asm
#include file: kiwi.sdr.asm
#include file: kiwi.gps.asm
#include_other file: (ignored) other.asm
used 1475/2048 CPU RAM (573 insns remaining)
```

```
make[1]: Leaving directory '/root/KiwiSDR/e_cpu'
make_prereq DONE
make[1]: Entering directory '/KiwiSDR'
```

```
-----
building ../build/gen/Makefile.inc
v1.800
Debian 11
PROJECT = KiwiSDR
```

ARCH = sitara
CPU = AM3359
PLAT = BBG_BBB
PLATFORMS = beaglebone beaglebone_black
BINARY_DISTRO = true
REBASE_DISTRO = true
DEBUG =
GDB =
XC =

-l../build/gen -lpru -l. -lpkgs/utf8 -lpkgs/mongoose -lpkgs/jsmn -lpkgs/sha256
-lpkgs/TNT_JAMA -lpkgs/ant_switch -lpkgs/sdrpp_server -lplatform/common
-lplatform/beaglebone -lplatform/beaglebone_black -lextensions/ -lextensions/
ALE_2G/ -lextensions/CW_decoder/ -lextensions/DRM/ -lextensions/FAX/
-lextensions/FFT/ -lextensions/FSK/ -lextensions/FT8/ -lextensions/HFDL/
-lextensions/IBP_scan/ -lextensions/IQ_display/ -lextensions/Loran_C/
-lextensions/NAVTEX/ -lextensions/SSTV/ -lextensions/S_meter/ -lextensions/
TDoA/ -lextensions/colormap/ -lextensions/devl/ -lextensions/digi_modes/
-lextensions/example/ -lextensions/iframe/ -lextensions/prefs/ -lextensions/s4285/
-lextensions/sig_gen/ -lextensions/timecode/ -lextensions/wspr/ -lextensions/FT8/
ft8_lib -lextensions/FT8/ft8_lib/common -lextensions/FT8/ft8_lib/ft8 -lextensions/
HFDL/dumphfdl/src -lextensions/HFDL/dumphfdl/src/libfec -lrx -lrx/kiwi -lrx/
CuteSDR -lrx/Teensy -lrx/wdsp -lrx/csdr -lrx/CMSIS -lrx/flidigi -lrx/flidigi/rsid -lrx/
flidigi/mfsk -lgps -lgps/ka9q-fec -lgps/GNSS-SDRLIB -ldev -lui -lcfg -ldx -lsupport
-lnet -lweb -larch/sitara -lextensions/DRM/dream/. -lextensions/DRM/dream/linux
-lextensions/DRM/dream/sourcedecoders -lextensions/DRM/dream/sound
-lextensions/DRM/dream/chanest -lextensions/DRM/dream/datadecoding
-lextensions/DRM/dream/datadecoding/journaline -lextensions/DRM/dream/
drmchannel -lextensions/DRM/dream/FAC -lextensions/DRM/dream/interleaver
-lextensions/DRM/dream/matlib -lextensions/DRM/dream/MDI -lextensions/DRM/
dream/MLC -lextensions/DRM/dream/MSC -lextensions/DRM/dream/
OFDMcellmapping -lextensions/DRM/dream/resample -lextensions/DRM/dream/
SDC -lextensions/DRM/dream/sync -lextensions/DRM/dream/tables -lextensions/
DRM/dream/util -lextensions/DRM/dream/FDK-AAC -l/usr/local/include -l/usr/local/
include/libacars-2 -l/usr/local/include/liquid -l/usr/lib/arm-linux-gnueabi/hf/glib-2.0/
include -l/usr/include/glib-2.0

-g -pipe -MMD -DCOMPILER_HOST=STRINGIFY(kiwisdr) -DHOST -mtune=cortex-
a8 -mcpu=cortex-a8 -mfpu=neon-vfpv3 -mfloat-abi=hard

-DDRM -DHAVE_DLFCN_H -DHAVE_MEMORY_H -DHAVE_STDINT_H
-DHAVE_STDLIB_H -DHAVE_STRINGS_H -DHAVE_STRING_H -DSTDC_HEADERS
-DHAVE_INTTYPES_H -DHAVE_SYS_STAT_H -DHAVE_SYS_TYPES_H
-DHAVE_UNISTD_H -DHAVE_LIBZ -DHAVE_LIBSNDFILE -DUSE_CONSOLEIO

```
-DUSE_KIWI -DHAVE_LIBFDK_AAC -DHAVE_USAC -DFT8 -DFT8_KIWI -DHFDL
-DHFDL_KIWI -DDUMPHFDL_VERSION=STRINGIFY(1.1.0)
```

```
-DMG_ARCH=MG_ARCH_CUSTOM -DSDRPP_SERVER -DUSE_CRYPT
-DVERSION_MAJ=1 -DVERSION_MIN=800 -DKIWI -DKIWISDR -DARCH_sitara
-DCPU_AM3359 -DARCH_CPU=AM3359 -DARCH_CPU_S=STRINGIFY(AM3359)
-DPLATFORM_beaglebone -DPLATFORM_beaglebone_black
-DARCH_DIR=STRINGIFY(arm32) -DDIR_CFG=STRINGIFY(/root/kiwi.config)
-DDIR_DATA=STRINGIFY(/tmp/kiwi.data) -DCFG_PREFIX=STRINGIFY()
-DBUILD_DIR=STRINGIFY(..../build) -DREPO_NAME=STRINGIFY(KiwiSDR)
-DREPO_GIT=STRINGIFY(jks-prv/KiwiSDR.git) -DREPO_DIR=STRINGIFY(/root/
KiwiSDR)
```

```
-----
make[1]: Leaving directory '/KiwiSDR'
make[1]: Entering directory '/KiwiSDR'
```

```
=====
make_binary: /root/KiwiSDR.files/bin/kiwi_v1.800_D11.9-11_BBG_BBB.bin
=> doesn't exist: compiling from sources
```

```
=====
make[2]: Entering directory '/KiwiSDR'
clang++-11 -Dv1_800 @../build/gen/Makefile.inc -std=gnu++11 -c -o ../build/obj/
pru_realtime.o pru/pru_realtime.cpp
In file included from pru/pru_realtime.cpp:56:
```

```
./kiwi.h:23:10: fatal error: 'kiwi.gen.h' file not found
```

```
#include "kiwi.gen.h"
```

```
^~~~~~
```

```
1 error generated.
```

```
make[2]: *** [Makefile:1160: ../build/obj/pru_realtime.o] Error 1
```

```
make[2]: Leaving directory '/KiwiSDR'
```

```
make[1]: *** [Makefile:570: make_binary] Error 2
```

```
make[1]: Leaving directory '/KiwiSDR'
```

```
make: *** [Makefile:99: all] Error 2
```

```
root@kiwisdr:/KiwiSDR#
```

```
root@kiwisdr:/KiwiSDR#
```

```
root@kiwisdr:/KiwiSDR# mi
```

```
disable unwanted services
```

```
(cd /root/KiwiSDR/e_cpu; make OTHER_DIR="")
```

```
make[1]: Entering directory '/root/KiwiSDR/e_cpu'
```

```
../build/tools/asm -o ../build/gen
```

```
assembling kiwi.asm to: ../build/gen/kiwi.aout, ../build/gen/encode.aout.h
```

```
#include file: ./other.config
```

```
#include file: ../kiwi.config
```

```
#include_other file: (ignored) other.cmds.asm
```



```
#include file: kiwi.sdr.asm
#include file: kiwi.gps.asm
#include_other file: (ignored) other.asm
generating include file: ../verilog/kiwi.cfg.vh
generating include file: ../../build/gen/other.gen.h
generating include file: ../verilog/other.gen.vh
generating include file: ../../build/gen/kiwi.gen.h
generating include file: ../verilog/kiwi.gen.vh
used 1475/2048 CPU RAM (573 insns remaining)
```

```
make[1]: Leaving directory '/root/KiwiSDR/e_cpu'
(cd /root/KiwiSDR/e_cpu; make gen_other OTHER_DIR="")
make[1]: Entering directory '/root/KiwiSDR/e_cpu'
../../build/tools/asm -o ../../build/gen -g
assembling kiwi.asm to: ../../build/gen/kiwi.aout, ../../build/gen/encode.aout.h
#include file: ./other.config
#include file: ../kiwi.config
#include_other file: (ignored) other.cmds.asm
#include file: kiwi.sdr.asm
#include file: kiwi.gps.asm
#include_other file: (ignored) other.asm
generating include file: ../../build/gen/other.gen.h
generating include file: ../verilog/other.gen.vh
used 1475/2048 CPU RAM (573 insns remaining)
```

```
make[1]: Leaving directory '/root/KiwiSDR/e_cpu'
(cd /root/KiwiSDR/e_cpu; make no_gen OTHER_DIR="")
make[1]: Entering directory '/root/KiwiSDR/e_cpu'
../../build/tools/asm -n -o ../../build/gen
assembling kiwi.asm to: ../../build/gen/kiwi.aout, ../../build/gen/encode.aout.h
#include file: ./other.config
#include file: ../kiwi.config
#include_other file: (ignored) other.cmds.asm
#include file: kiwi.sdr.asm
#include file: kiwi.gps.asm
#include_other file: (ignored) other.asm
used 1475/2048 CPU RAM (573 insns remaining)
```

```
make[1]: Leaving directory '/root/KiwiSDR/e_cpu'
make_prereq DONE
make make_install_binary
make[1]: Entering directory '/KiwiSDR'
=====
make_install_binary: /root/KiwiSDR.files/bin/kiwid_v1.800_D11.9-11_BBG_BBB.bin
```

=> doesn't exist: installing from sources

=====

```
make[2]: Entering directory '/KiwiSDR'
clang++-11 -Dv1_800 @../build/gen/Makefile.inc -std=gnu++11 -c -o ../build/obj/
pru_realtime.o pru/pru_realtime.cpp
In file included from pru/pru_realtime.cpp:56:
./kiwi.h:23:10: fatal error: 'kiwi.gen.h' file not found
#include "kiwi.gen.h"
      ^~~~~~
```

1 error generated.

```
make[2]: *** [Makefile:1160: ../build/obj/pru_realtime.o] Error 1
make[2]: Leaving directory '/KiwiSDR'
make[1]: *** [Makefile:1479: make_install_binary] Error 2
make[1]: Leaving directory '/KiwiSDR'
make: *** [Makefile:1425: install] Error 2
root@kiwisdr:/KiwiSDR# ku
bash: cd: /root/Beagle_SDR_GPS: No such file or directory
s
```

^~~~~~

1 error generated.

```
make[2]: *** [Makefile:1160: ../build/obj/pru_realtime.o] Error 1
make[2]: Leaving directory '/KiwiSDR'
make[1]: *** [Makefile:1479: make_install_binary] Error 2
make[1]: Leaving directory '/KiwiSDR'
make: *** [Makefile:1425: install] Error 2
root@kiwisdr:/KiwiSDR# ku
bash: cd: /root/Beagle_SDR_GPS: No such file or directory
systemctl --full --lines=250 stop kiwid.service || true
systemctl --full --lines=250 start kiwid.service || true
root@kiwisdr:/KiwiSDR#
root@kiwisdr:/KiwiSDR#
root@kiwisdr:/KiwiSDR#
root@kiwisdr:/KiwiSDR#
root@kiwisdr:/KiwiSDR#
root@kiwisdr:/KiwiSDR#
```