The information for this document was found at "https://www.electronicshub.org/programming-raspberry-pi-pico-with-swd/"

Testing a new installation method using a prefix in the configure and creating a squashfs img that can install bin & share in "/home/devel/local/openocd". Using this method it can be installed on my other RPi4 without having to rebuild from source. A 2<sup>nd</sup> "openocd081421-71510a.img" is the source compiled to installed at "/home/devel/local/openocd"

## "export PATH=/home/devel/local/openocd/bin:\$PATH"

The build was done on PI400 and the with the **"installed-openocd081421-71510a.img"** it was installed on a RPi4B 4Gb.

sudo apt install gdb-multiarch

dpkg -l | grep gdb-multiarch gdb-multiarch 8.2.1-2 support for multiple architectures)

armhf GNU Debugger (with

git clone https://github.com/raspberrypi/openocd.git --recursive --branch rp2040 --depth=1

commit 71510a77a61c6eb2b1266e00010f8f258785a54b (grafted, HEAD -> rp2040, origin/rp2040, origin/HEAD)

Author: Peter Lawrence <12226419+majbthrd@users.noreply.github.com>

Date: Thu Jun 3 14:06:09 2021 -0500

tcl/boards: add pico-debug.cfg

## cd openocd/

## ./bootstrap

- + aclocal --warnings=all
- + libtoolize --automake --copy
- + autoconf --warnings=all
- + autoheader --warnings=all
- + automake --warnings=all --gnu --add-missing --copy

configure.ac:26: installing './compile'

configure.ac:37: installing './config.guess'

configure.ac:37: installing './config.sub'

configure.ac:16: installing './install-sh'

configure.ac:16: installing './missing'

Makefile.am:46: warning: wildcard \$(srcdir: non-POSIX variable name

Makefile.am:46: (probably a GNU make extension)

Makefile.am: installing './INSTALL'

Makefile.am: installing './depcomp' Makefile.am:23: installing './mdate-sh' Makefile.am:23: installing './texinfo.tex'

Setting up submodules Generating build system...

libtoolize: putting auxiliary files in AC\_CONFIG\_AUX\_DIR, 'build-aux'.

libtoolize: copying file 'build-aux/config.guess' libtoolize: copying file 'build-aux/config.sub' libtoolize: copying file 'build-aux/install-sh' libtoolize: copying file 'build-aux/ltmain.sh'

libtoolize: putting macros in AC\_CONFIG\_MACRO\_DIRS, 'm4'.

libtoolize: copying file 'm4/libtool.m4' libtoolize: copying file 'm4/ltoptions.m4' libtoolize: copying file 'm4/ltsugar.m4' libtoolize: copying file 'm4/ltversion.m4' libtoolize: copying file 'm4/ltversion.m4' configure.ac:43: installing 'build-aux/ar-lib' configure.ac:37: installing 'build-aux/compile' configure.ac:30: installing 'build-aux/missing'

libjaylink/Makefile.am: installing 'build-aux/depcomp'

Bootstrap complete. Quick build instructions:

Use the –help to see what the options provide.

## ./configure --help

--enable-sysfsgpio Enable building support for programming driven via sysfs gpios.

--enable-bcm2835gpio Enable building support for bitbanging on BCM2835

The folder where

sudo mkdir/media/devel/03ba8473-3445-4a49-8e7b-1876b5d543d2/installed-openocd

./configure --enable-sysfsgpio --enable-bcm2835gpio --prefix=/media/devel/03ba8473-3445-4a49-8e7b-1876b5d543d2/installed-openocd

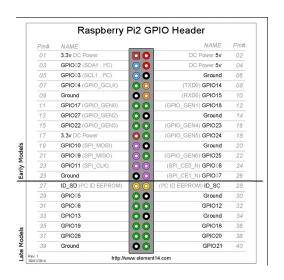
make -j4

sudo make install

top

swclk grd swdio x x x X

GPIO24 pin 18 swdio GRD pin 20 GRD GPI025 pin 22 swclk



~/local/openocd/bin/openocd --version

Open On-Chip Debugger 0.10.0+dev-g71510a7-dirty (2021-08-15-17:08)

Licensed under GNU GPL v2

For bug reports, read

http://openocd.org/doc/doxygen/bugs.html

local/openocd/bin/openocd: invalid option -- 'e'

```
local/openocd/bin/openocd --help
```

Open On-Chip Debugger 0.10.0+dev-g71510a7-dirty (2021-08-15-17:08)

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For bug reports, read

http://openocd.org/doc/doxygen/bugs.html

Open On-Chip Debugger

Licensed under GNU GPL v2

--help | -h display this help

--version | -vdisplay OpenOCD version

--file | -f use configuration file <name>

--search | -s dir to search for config files and scripts

--debug | -dset debug level to 3

| -d<n> set debug level to <level>

--log\_output | -l redirect log output to file <name>

--command | -c run <command>

cd /opt/pico-examples/build/

sudo ~/local/openocd/bin/openocd -f interface/raspberrypi-swd.cfg -f target/rp2040.cfg -c "program blink/blink.elf verify reset exit"

[sudo] password for devel:

Open On-Chip Debugger 0.10.0+dev-g71510a7-dirty (2021-08-15-17:08)

Licensed under GNU GPL v2

For bug reports, read

http://openocd.org/doc/doxygen/bugs.html

adapter speed: 1000 kHz

Info: Hardware thread awareness created Info: Hardware thread awareness created Info: RP2040 Flash Bank Command

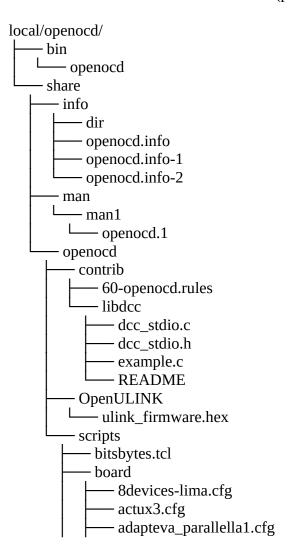
Info: BCM2835 GPIO JTAG/SWD bitbang driver

Info: clock speed 1001 kHz

Info: Read incorrect DLIPDR 00000000 (possibly CTRL/STAT value) when selecting coreid 0

Info: DAP init failed in procedure 'program' \*\* OpenOCD init failed \*\* shutdown command invoked

Info: Read incorrect DLIPDR 00000000 (possibly CTRL/STAT value) when selecting coreid 0



```
adsp-sc584-ezbrd.cfg
alphascale_asm9260_ek.cfg
altera_sockit.cfg
am3517evm.cfg
ampere_emag8180.cfg
arm_evaluator7t.cfg
arm_musca_a.cfg
arty_s7.cfg
asus-rt-n16.cfg
· asus-rt-n66u.cfg
at91cap7a-stk-sdram.cfg
at91eb40a.cfg
at91rm9200-dk.cfg
- at91rm9200-ek.cfg
at91sam9261-ek.cfg
at91sam9263-ek.cfg
at91sam9g20-ek.cfg
atmel_at91sam7s-ek.cfg
atmel at91sam9260-ek.cfg
atmel_at91sam9rl-ek.cfg
atmel_sam3n_ek.cfg
- atmel_sam3s_ek.cfg
atmel_sam3u_ek.cfg
·atmel_sam3x_ek.cfg
atmel_sam4e_ek.cfg
atmel_sam4l8_xplained_pro.cfg
atmel sam4s ek.cfg
atmel_sam4s_xplained_pro.cfg
atmel_samc20_xplained_pro.cfg
atmel_samc21_xplained_pro.cfg
atmel_samd10_xplained_mini.cfg
atmel_samd11_xplained_pro.cfg
atmel_samd20_xplained_pro.cfg
atmel_samd21_xplained_pro.cfg
atmel_same70_xplained.cfg
atmel_samg53_xplained_pro.cfg
atmel_samg55_xplained_pro.cfg
atmel_saml21_xplained_pro.cfg
atmel_samr21_xplained_pro.cfg
atmel_samv71_xplained_ultra.cfg
avnet_ultrazed-eg.cfg
balloon3-cpu.cfg
bcm28155_ap.cfg
bluefield.cfg
bt-homehubv1.cfg
colibri.cfg
crossbow_tech_imote2.cfg
csb337.cfg
csb732.cfg
da850evm.cfg
digi_connectcore_wi-9c.cfg
digilent_analog_discovery.cfg
```

```
digilent_atlys.cfg
digilent_nexys_video.cfg
digilent_zedboard.cfg
diolan lpc4350-db1.cfg
diolan_lpc4357-db1.cfg
dk-tm4c129.cfg
-dm355evm.cfg
dm365evm.cfg
dm6446evm.cfg
dp_busblaster_v3.cfg
dp_busblaster_v4.cfg
dptechnics_dpt-board-v1.cfg
efikamx.cfg
efm32.cfg
eir.cfg
ek-lm3s1968.cfg
ek-lm3s3748.cfg
ek-lm3s6965.cfg
ek-lm3s811.cfg
ek-lm3s811-revb.cfg
ek-lm3s8962.cfg
ek-lm3s9b9x.cfg
ek-lm3s9d92.cfg
ek-lm4f120xl.cfg
ek-lm4f232.cfg
ek-tm4c123gxl.cfg
- ek-tm4c1294xl.cfg
embedded-artists_lpc2478-32.cfg
emcraft_imx8m-som-bsb.cfg
emcraft_twr-vf6-som-bsb.cfg
- emcraft_vf6-som.cfg
- ethernut3.cfg
- frdm-kl25z.cfg
frdm-kl46z.cfg
fsl_imx6q_sabresd.cfg
glyn_tonga2.cfg
gti
   espressobin.cfg
gumstix-aerocore.cfg
hammer.cfg
hilscher_nxdb500sys.cfg
- hilscher_nxeb500hmi.cfg
hilscher_nxhx10.cfg
hilscher_nxhx500.cfg
hilscher_nxhx50.cfg
hilscher_nxsb100.cfg
hitex_lpc1768stick.cfg
hitex_lpc2929.cfg
hitex_stm32-performancestick.cfg
hitex_str9-comstick.cfg
iar_lpc1768.cfg
iar_str912_sk.cfg
```

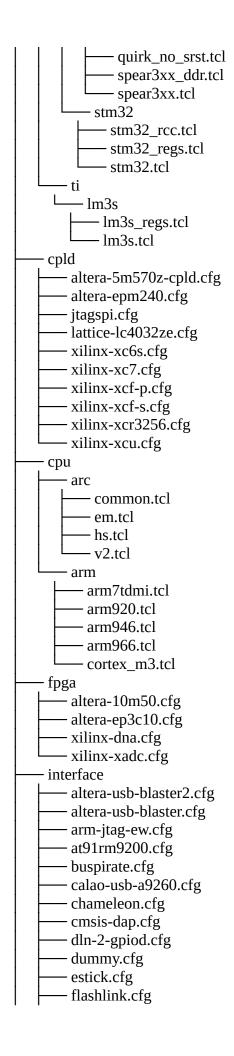
```
icnova_imx53_sodimm.cfg
icnova_sam9g45_sodimm.cfg
imx27ads.cfg
imx27lnst.cfg
- imx28evk.cfg
· imx31pdk.cfg
- imx35pdk.cfg
imx53loco.cfg
· imx53-m53evk.cfg
· imx8mp-evk.cfg
· insignal_arndale.cfg
kasli.cfg
kc100.cfg
kc705.cfg
kcu105.cfg
keil_mcb1700.cfg
keil_mcb2140.cfg
· kindle2.cfg
- kwikstik.cfg
- la_fonera-fon2200.cfg
- lemaker_hikey.cfg
- linksys_nslu2.cfg
· linksys-wag200g.cfg
- linksys-wrt54gl.cfg
- lisa-l.cfg
- logicpd_imx27.cfg
- lpc1850_spifi_generic.cfg
· lpc4350_spifi_generic.cfg
- lubbock.cfg
- marsohod2.cfg
- marsohod3.cfg
marsohod.cfg
mbed-lpc11u24.cfg
mbed-lpc1768.cfg
mcb1700.cfg
microchip_explorer16.cfg
microchip_sama5d27_som1_kit1.cfg
microchip_same54_xplained_pro.cfg
microchip_saml11_xplained_pro.cfg
mini2440.cfg
mini6410.cfg
minispartan6.cfg
nds32_corvettef1.cfg
nds32_xc5.cfg
nds32_xc7.cfg
netgear-dg834v3.cfg
netgear-wg102.cfg
nordic_nrf51822_mkit.cfg
nordic_nrf51_dk.cfg
nordic_nrf52_dk.cfg
nordic_nrf52_ftx232.cfg
novena-internal-fpga.cfg
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numato_mimas_a7.cfg
numato_opsis.cfg
nxp_frdm-ls1012a.cfg
nxp imx7sabre.cfg
nxp_lpc-link2.cfg
nxp_mcimx8m-evk.cfg
olimex_LPC2378STK.cfg
olimex_lpc_h2148.cfg
olimex_sam7_ex256.cfg
olimex_sam7_la2.cfg
olimex_sam9_l9260.cfg
olimex stm32 h103.cfg
olimex_stm32_h107.cfg
olimex_stm32_h405.cfg
olimex_stm32_p107.cfg
omap2420_h4.cfg
openrd.cfg
or1k_generic.cfg
osk5912.cfg
phone_se_j100i.cfg
phytec_lpc3250.cfg
pico-debug.cfg
pic-p32mx.cfg
pipistrello.cfg
propox_mmnet1001.cfg
pxa255_sst.cfg
quark_d2000_refboard.cfg
quark_x10xx_board.cfg
quicklogic_quickfeather.cfg
redbee.cfg
reflexces_achilles_i-dev_kit_arria10.cfg
renesas_dk-s7g2.cfg
renesas_falcon.cfg
renesas_gr_peach.cfg
renesas_porter.cfg
renesas_salvator-xs.cfg
renesas_silk.cfg
renesas_stout.cfg
rigado_bmd300_ek.cfg
rpi3.cfg
rpi4b.cfg
rsc-w910.cfg
sayma_amc.cfg
sheevaplug.cfg
sifive-e31arty.cfg
sifive-e51arty.cfg
sifive-hifive1.cfg
sifive-hifive1-revb.cfg
smdk6410.cfg
snps_em_sk.cfg
snps_em_sk_v1.cfg
snps_em_sk_v2.1.cfg
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snps_em_sk_v2.2.cfg
snps_hsdk.cfg
spansion_sk-fm4-176l-s6e2cc.cfg
spansion sk-fm4-u120-9b560.cfg
spear300evb.cfg
spear300evb_mod.cfg
spear310evb20.cfg
spear310evb20_mod.cfg
spear320cpu.cfg
spear320cpu_mod.cfg
st_b-l475e-iot01a.cfg
steval-idb007v1.cfg
steval-idb008v1.cfg
· steval-idb011v1.cfg
steval_pcc010.cfg
stm320518_eval.cfg
stm320518_eval_stlink.cfg
stm32100b_eval.cfg
stm3210b_eval.cfg
stm3210c_eval.cfg
stm3210e_eval.cfg
· stm3220g_eval.cfg
stm3220g_eval_stlink.cfg
stm3241g_eval.cfg
stm3241g_eval_stlink.cfg
stm32429i_eval.cfg
- stm32429i eval stlink.cfg
stm32439i_eval.cfg
- stm32439i_eval_stlink.cfg
stm327x6g_eval.cfg
stm32f0discovery.cfg
- stm32f103c8_blue_pill.cfg
stm32f334discovery.cfg
· stm32f3discovery.cfg
stm32f412g-disco.cfg
stm32f413h-disco.cfg
stm32f429disc1.cfg
stm32f429discovery.cfg
stm32f469discovery.cfg
stm32f469i-disco.cfg
· stm32f4discovery.cfg
stm32f723e-disco.cfg
stm32f746g-disco.cfg
stm32f769i-disco.cfg
stm32f7discovery.cfg
stm32h735g-disco.cfg
stm32h745i-disco.cfg
stm32h747i-disco.cfg
stm32h750b-disco.cfg
stm32h7b3i-disco.cfg
stm32h7x3i_eval.cfg
stm32h7x_dual_qspi.cfg
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stm32l0discovery.cfg
stm32l476g-disco.cfg
stm32l496g-disco.cfg
stm32l4discovery.cfg
stm32l4p5g-disco.cfg
stm32l4r9i-disco.cfg
stm32ldiscovery.cfg
stm32mp15x_dk2.cfg
stm32vldiscovery.cfg
st_nucleo_8l152r8.cfg
st_nucleo_8s208rb.cfg
st_nucleo_f0.cfg
st_nucleo_f103rb.cfg
st_nucleo_f3.cfg
st_nucleo_f4.cfg
st_nucleo_f7.cfg
st_nucleo_h743zi.cfg
st_nucleo_h745zi.cfg
st_nucleo_l073rz.cfg
st_nucleo_l1.cfg
st_nucleo_l4.cfg
st_nucleo_l5.cfg
st_nucleo_wb55.cfg
str910-eval.cfg
telo.cfg
ti_am335xevm.cfg
ti_am437x_idk.cfg
ti_am43xx_evm.cfg
ti_am642evm.cfg
ti_am654evm.cfg
ti_beagleboard.cfg
ti_beagleboard_xm.cfg
ti_beaglebone-base.cfg
ti_beaglebone_black.cfg
ti_beaglebone.cfg
ti_blaze.cfg
ti_cc13x0_launchpad.cfg
ti_cc13x2_launchpad.cfg
ti_cc26x0_launchpad.cfg
ti_cc26x2_launchpad.cfg
ti_cc3200_launchxl.cfg
ti_cc3220sf_launchpad.cfg
ti_cc32xx_launchpad.cfg
ti_dk-tm4c129.cfg
ti_ek-tm4c123gxl.cfg
ti ek-tm4c1294xl.cfg
ti_j7200evm.cfg
ti_j721evm.cfg
ti_msp432_launchpad.cfg
ti_pandaboard.cfg
ti_pandaboard_es.cfg
ti_tmdx570ls20susb.cfg
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ti_tmdx570ls31usb.cfg
    tocoding_poplar.cfg
   topas910.cfg
   - topasa900.cfg
   tp-link_tl-mr3020.cfg
   tp-link_wdr4300.cfg
   - twr-k60f120m.cfg
   twr-k60n512.cfg
   - twr-vf65gs10.cfg
   - twr-vf65gs10_cmsisdap.cfg
   tx25_stk5.cfg
   tx27 stk5.cfg
    unknown_at91sam9260.cfg
   - uptech_2410.cfg
   - verdex.cfg
   voipac.cfg
   voltcraft_dso-3062c.cfg
   - x300t.cfg
   - xmc1100-boot-kit.cfg
   - xmc-2go.cfg
   - xmc4200-application-kit-actuator.cfg
   - xmc4300-relax.cfg
    xmc4500-application-kit-general.cfg
   - xmc4500-application-kit-sdram.cfg
   · xmc4500-relax.cfg
   · xmc4700-relax.cfg
   - xmc4800-relax.cfg
   - xmos_xk-xac-xa8_arm.cfg
- chip
   - atmel
      - at91
         - aic.tcl
         at91_pio.cfg
         at91_pmc.cfg
         at91_rstc.cfg
         at91sam7x128.tcl
         at91sam7x256.tcl
         at91sam9261.cfg
         - at91sam9261 matrix.cfg
         at91sam9263.cfg
         at91sam9263_matrix.cfg
         at91sam9_init.cfg
         at91sam9_sdramc.cfg
         at91sam9_smc.cfg
         at91_wdt.cfg
         hardware.cfg
          pmc.tcl
         rtt.tcl
         sam9_smc.cfg
         usarts.tcl
      - spear
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ft232r.cfg	
ftdi	
100ask-openjtag.cfg	
ashling opella-ld-jtag.cfg	
ashling-opella-ld-swd.cfg	
calao-usb-a9260-c01.cfg	
calao-usb-a9260-c02.cfg	
cortino.cfg	
digilent-hs1.cfg digilent-hs2.cfg	
digilent_jtag_hs3.cfg	
digilent_jtag_smt2.cfg	
digilent_jtag_smt2_nc.cfg	
dp-usb1232h.cfg	
dp_busblaster.cfg	
dp_busblaster_kt-link.cfg	
floority and a support of a	
flygy yattar?2 of g	
flyswatter2.cfg	
flyswatter.cfg	
ft232h-module-swd.cfg	
gw16042.cfg	
hie-jtag.cfg	
hilscher_nxhx10_etm.cfg	
hilscher_nxhx500_etm.cfg	
hilscher_nxhx500_re.cfg	
hilscher_nxhx50_etm.cfg	
hilscher_nxhx50_re.cfg	
hitex_lpc1768stick.cfg	
hitex_str9-comstick.cfg	
icebear.cfg	
imx8mp-evk.cfg	
incircuit-icprog.cfg	
iotlab-usb.cfg	
isodebug.cfg	
jtagkey2.cfg	
jtagkey2p.cfg	
jtagkey.cfg	
jtag-lock-pick_tiny_2.cfg	
kt-link.cfg	
lisa-l.cfg	
luminary.cfg	
luminary-icdi.cfg	
luminary-lm3s811.cfg	
m53evk.cfg	
mbftdi.cfg	
minimodule.cfg	
minimodule-swd.cfg	
minispartan6.cfg	
— miniwiggler.cfg	

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neodb.cfg
    ngxtech.cfg
    olimex-arm-jtag-swd.cfg
    olimex-arm-usb-ocd.cfg
    olimex-arm-usb-ocd-h.cfg
    olimex-arm-usb-tiny-h.cfg
    olimex-jtag-tiny.cfg
    oocdlink.cfg
    opendous_ftdi.cfg
    openocd-usb.cfg
    openocd-usb-hs.cfg
    openrd.cfg
    pipistrello.cfg
   - pls_spc5.cfg
   redbee-econotag.cfg
    redbee-usb.cfg
    rowley-cc-arm-swd.cfg
   sheevaplug.cfg
    signalyzer.cfg
    signalyzer-lite.cfg
    snps_sdp.cfg
   steppenprobe.cfg
    stm32-stick.cfg
    swd-resistor-hack.cfg
    ti-icdi.cfg
    tumpa.cfg
   - tumpa-lite.cfg
    turtelizer2-revB.cfg
   - turtelizer2-revC.cfg
   · um232h.cfg
   vpaclink.cfg
   - xds100v2.cfg
   - xds100v3.cfg
- imx-native.cfg
· ilink.cfg
- jtag_dpi.cfg
jtag_hat_rpi2.cfg
- jtag_vpi.cfg
· kitprog.cfg
nds32-aice.cfg
· nulink.cfg
opendous.cfg
openjtag.cfg
osbdm.cfg
parport.cfg
parport_dlc5.cfg
raspberrypi2-native.cfg
raspberrypi-native.cfg
rlink.cfg
rshim.cfg
stlink.cfg
stlink-dap.cfg
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stlink-v1.cfg
   stlink-v2-1.cfg
   stlink-v2.cfg
  sysfsgpio-raspberrypi.cfg
  · ti-icdi.cfg
   ulink.cfg
  usb-jtag.cfg
   usbprog.cfg
  vsllink.cfg
  xds110.cfg
mem_helper.tcl
memory.tcl
mmr_helpers.tcl
target
  - 1986ве1т.cfg
   adsp-sc58x.cfg
  aduc702x.cfg
  aducm360.cfg
  - allwinner_v3s.cfg
  alphascale_asm9260t.cfg
  · altera_fpgasoc_arria10.cfg
  - altera_fpgasoc.cfg
   am335x.cfg
  -am437x.cfg
  amdm37x.cfg
  ampere_emag.cfg
  - ar71xx.cfg
  - armada370.cfg
  - arm_corelink_sse200.cfg
  - at32ap7000.cfg
  - at91r40008.cfg
  - at91rm9200.cfg
  - at91sam3ax_4x.cfg
  - at91sam3ax_8x.cfg
  at91sam3ax_xx.cfg
  - at91sam3nXX.cfg
  at91sam3sXX.cfg
  - at91sam3u1c.cfg
  - at91sam3u1e.cfg
  - at91sam3u2c.cfg
  - at91sam3u2e.cfg
  - at91sam3u4c.cfg
   at91sam3u4e.cfg
  - at91sam3uxx.cfg
  - at91sam3XXX.cfg
  at91sam4c32x.cfg
   at91sam4cXXX.cfg
   at91sam4lXX.cfg
  - at91sam4sd32x.cfg
  at91sam4sXX.cfg
  at91sam4XXX.cfg
  at91sam7a2.cfg
```

```
at91sam7se512.cfg
at91sam7sx.cfg
at91sam7x256.cfg
at91sam7x512.cfg
- at91sam9260.cfg
at91sam9260_ext_RAM_ext_flash.cfg
- at91sam9261.cfg
at91sam9263.cfg
at91sam9.cfg
at91sam9g10.cfg
at91sam9g20.cfg
at91sam9g45.cfg
at91sam9rl.cfg
- at91sama5d2.cfg
at91samdXX.cfg
at91samg5x.cfg
atheros_ar2313.cfg
atheros_ar2315.cfg
atheros_ar9331.cfg
atheros_ar9344.cfg
atmega128.cfg
- atmega128rfa1.cfg
atsame5x.cfg
atsaml1x.cfg
atsamv.cfg
avr32.cfg
- bcm2711.cfg
bcm281xx.cfg
bcm2835.cfg
bcm2836.cfg
- bcm2837.cfg
bcm4706.cfg
bcm4718.cfg
bcm47xx.cfg
bcm5352e.cfg
bcm6348.cfg
bluefield.cfg
bluenrg-x.cfg
c100.cfg
c100config.tcl
c100helper.tcl
c100regs.tcl
cc2538.cfg
cs351x.cfg
davinci.cfg
dragonite.cfg
dsp56321.cfg
dsp568013.cfg
dsp568037.cfg
efm32.cfg
em357.cfg
em358.cfg
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eos_s3.cfg
epc9301.cfg
esi32xx.cfg
exynos5250.cfg
- faux.cfg
feroceon.cfg
- fm3.cfg
fm4.cfg
fm4_mb9bf.cfg
fm4_s6e2cc.cfg
gd32vf103.cfg
gp326xxxa.cfg
hi3798.cfg
hi6220.cfg
hilscher_netx10.cfg
hilscher_netx500.cfg
hilscher_netx50.cfg
- icepick.cfg
- imx21.cfg
- imx25.cfg
imx27.cfg
imx28.cfg
imx31.cfg
- imx35.cfg
· imx51.cfg
- imx53.cfg
- imx6.cfg
imx6sx.cfg
- imx6ul.cfg
- imx7.cfg
- imx7ulp.cfg
- imx8m.cfg
- imx8qm.cfg
- imx.cfg
infineon
   - tle987x.cfg
- is5114.cfg
- ixp42x.cfg
- k1921vk01t.cfg
- k40.cfg
- k60.cfg
- ke0x.cfg
ke1xf.cfg
- ke1xz.cfg
· kl25.cfg
· kl46.cfg
 klx.cfg
- ks869x.cfg
kx.cfg
lpc11xx.cfg
lpc12xx.cfg
- lpc13xx.cfg
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lpc17xx.cfg	
lpc1850.cfg	
lpc1xxx.cfg	
lpc2103.cfg	
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lpc2124.cfg	
lpc2129.cfg	
lpc2148.cfg	
—— lpc2294.cfg	
lpc2378.cfg	
lpc2460.cfg	
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lpc2478.cfg	
lpc2900.cfg	
lpc2xxx.cfg	
lpc3131.cfg	
—— lpc3250.cfg	
lpc40xx.cfg	
—— lpc4350.cfg	
lpc4357.cfg	
lpc4370.cfg	
lpc84x.cfg	
lpc8nxx.cfg	
lpc8xx.cfg	
ls1012a.cfg	
— marvell	
88f3710.cfg	
88f3720.cfg	
88f37x0.cfg	
ļ	
max32625.cfg	
max3263x.cfg	
— mc13224v.cfg	
mdr32f9q2i.cfg	
— nds32v2.cfg	
mds32v3.cfg	
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mds32v5.cfg	
mhs31xx.cfg	
nrf51.cfg	
nrf52.cfg	
nuc910.cfg	
numicro.cfg	
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—— omap3530.cfg	
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omap5912.cfg	
omapl138.cfg	
onapriso.cig	
pic32mx.cfg	
psoc4.cfg	
psoc5lp.cfg	
—— psoc6.cfg	

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pxa255.cfg
pxa270.cfg
pxa3xx.cfg
qualcomm_qca4531.cfg
quark_d20xx.cfg
quark_x10xx.cfg
readme.txt
renesas_r7s72100.cfg
renesas_rcar_gen2.cfg
renesas_rcar_gen3.cfg
renesas_rcar_reset_common.cfg
renesas_rz_g2.cfg
renesas_s7g2.cfg
rk3308.cfg
rk3399.cfg
rp2040-core0.cfg
samsung_s3c2410.cfg
samsung_s3c2440.cfg
samsung_s3c2450.cfg
samsung_s3c4510.cfg
samsung_s3c6410.cfg
-sharp_lh79532.cfg
sim3x.cfg
smp8634.cfg
snps_em_sk_fpga.cfg
snps_hsdk.cfg
- spear3xx.cfg
stellaris.cfg
stm32f0x.cfg
stm32f1x.cfg
stm32f2x.cfg
stm32f3x.cfg
stm32f4x.cfg
stm32f7x.cfg
stm32g0x.cfg
stm32g4x.cfg
stm32h7x.cfg
stm32h7x_dual_bank.cfg
stm32l0.cfg
stm32l0_dual_bank.cfg
stm32l1.cfg
stm32l1x_dual_bank.cfg
stm32l4x.cfg
stm32l5x.cfg
stm32mp15x.cfg
stm32w108xx.cfg
stm32wbx.cfg
stm32wlx.cfg
stm32xl.cfg
stm8l152.cfg
stm8l.cfg
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stm8s103.cfg
    stm8s105.cfg
    stm8s.cfg
   - str710.cfg
   - str730.cfg
    str750.cfg
   - str912.cfg
    - swj-dp.tcl
   - swm050.cfg
   test_reset_syntax_error.cfg
    - test_syntax_error.cfg
   ti-ar7.cfg
   - ti_calypso.cfg
   -ti_cc13x0.cfg
   -ti_cc13x2.cfg
   -ti_cc26x0.cfg
   -ti_cc26x2.cfg
   - ti_cc3220sf.cfg
   - ti_cc32xx.cfg
   - ti-cjtag.cfg
   - ti_dm355.cfg
   ti_dm365.cfg
   - ti_dm6446.cfg
   - ti_k3.cfg
   -ti_msp432.cfg
   - ti_rm4x.cfg
   ti_tms570.cfg
   ti_tms570ls20xxx.cfg
   - ti_tms570ls3137.cfg
   - tmpa900.cfg
   - tmpa910.cfg
   - tnetc4401.cfg
   - u8500.cfg
   - vybrid_vf6xx.cfg
   - xilinx_zynqmp.cfg
   - xmc1xxx.cfg
   - xmc4xxx.cfg
   - xmos_xs1-xau8a-10_arm.cfg
   - zynq_7000.cfg
   - к1879хб1я.cfg
- test
   - selftest.cfg
   - syntax1.cfg
- tools
  – firmware-recovery.tcl
  – memtest.tcl
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