Pico Tools SDK OPENOCD 11/08/21

/opt/ pico-extras pico-sdk pico-examples pico-playground

Backups:

devel@mypi3-16:/media/devel/1b763776-4e1d-499c-9f24-a116a58c161f \$ ls pico/installed-openocd081421-71510a.img pico-examples.img pico-playground.img openocd081421-71510a.img pico-extras.img pico-sdk.img

cd opt sudo unsquashfs -d pico-sdk pico-sdk.img sudo unsquashfs -d pico-examples pico-examples.img

Openocd was download from "https://github.com/raspberrypi/openocd.git" An img file "openocd081421-71510a.img" was created of the

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

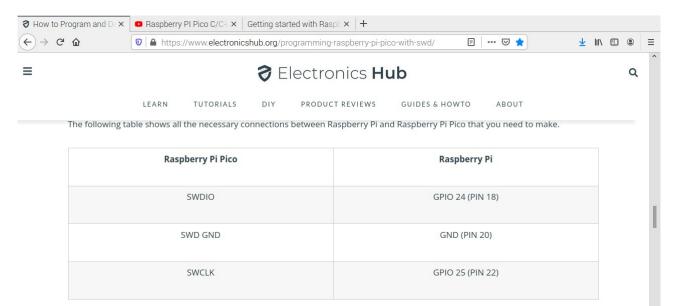
The folder "/home/devel/local/openocd" was created from the file "installed-openocd081421-71510a.img" in "/home/devel" and executing the command "sudo unsquashfs -d openocd ../installed-openocd081421-71510a.img" in "/home/devel/local" folder.

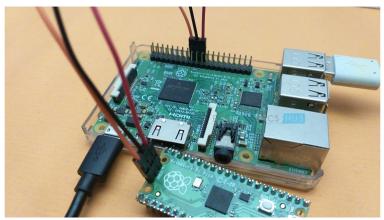
D: - -

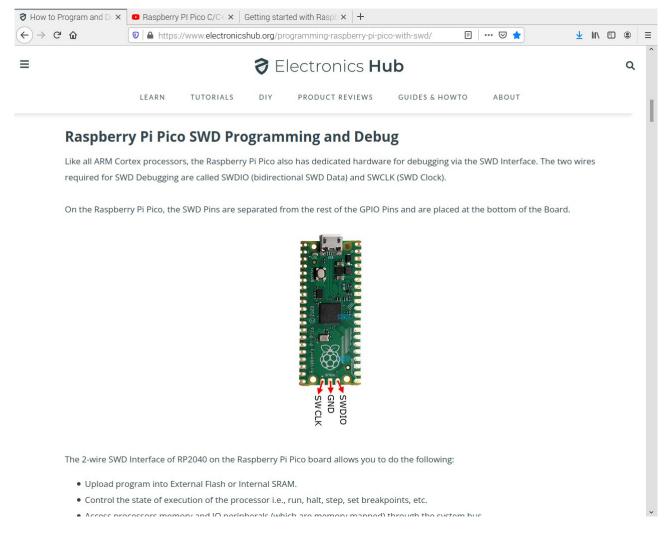
ls -la local/openocd/bin/openocd

D-:

Rp1	Pico
SWDIO18 redblackblack	blueswclk
grdblue	greengrd
SWCLK22 orangegreen	blackswdio







Pico The labels swclk grd swdio are only on the bottom side.

pico-pi-sdk-build.txt has the instruction from the video below.

Revist the video below https://www.youtube.com/watch?v=UZwq3eb5Mv0

Downloaded the getting-started

https://datasheets.raspberrypi.com/pico/getting-started-with-pico.pdf

export PATH=~/local/openocd/bin:\$PATH

echo \$PATH

/home/devel/local/openocd/bin:/home/devel/.local/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/u

which openocd /home/devel/local/openocd/bin/openocd

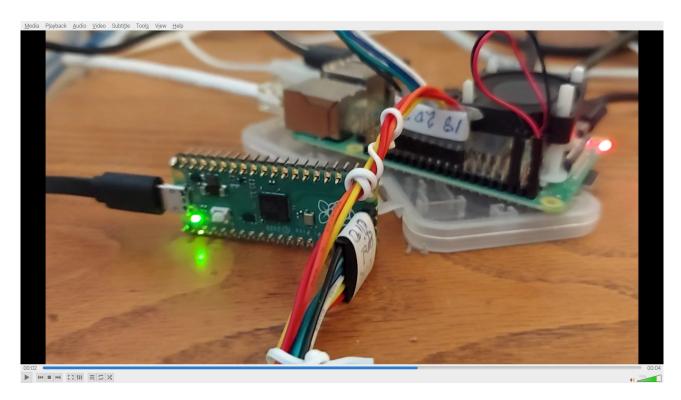
/opt/pico-examples/build

 $openocd\ -f\ interface/raspberrypi-swd.cfg\ -f\ target/rp2040.cfg\ -c\ "program\ blink/blink.elf\ verify\ reset\ exit"$

Raspberry Pico will start to blink.



Blink on.



Using openocd to start the hello world. The window on the left is running minicom. Window on the right loads the hellp_usb program <code>openocd -f interface/raspberrypi-swd.cfg -f target/rp2040.cfg -c "program hello_world/usb/hello_usb.elf verify reset exit"</code>

