

# WP1- Documentation

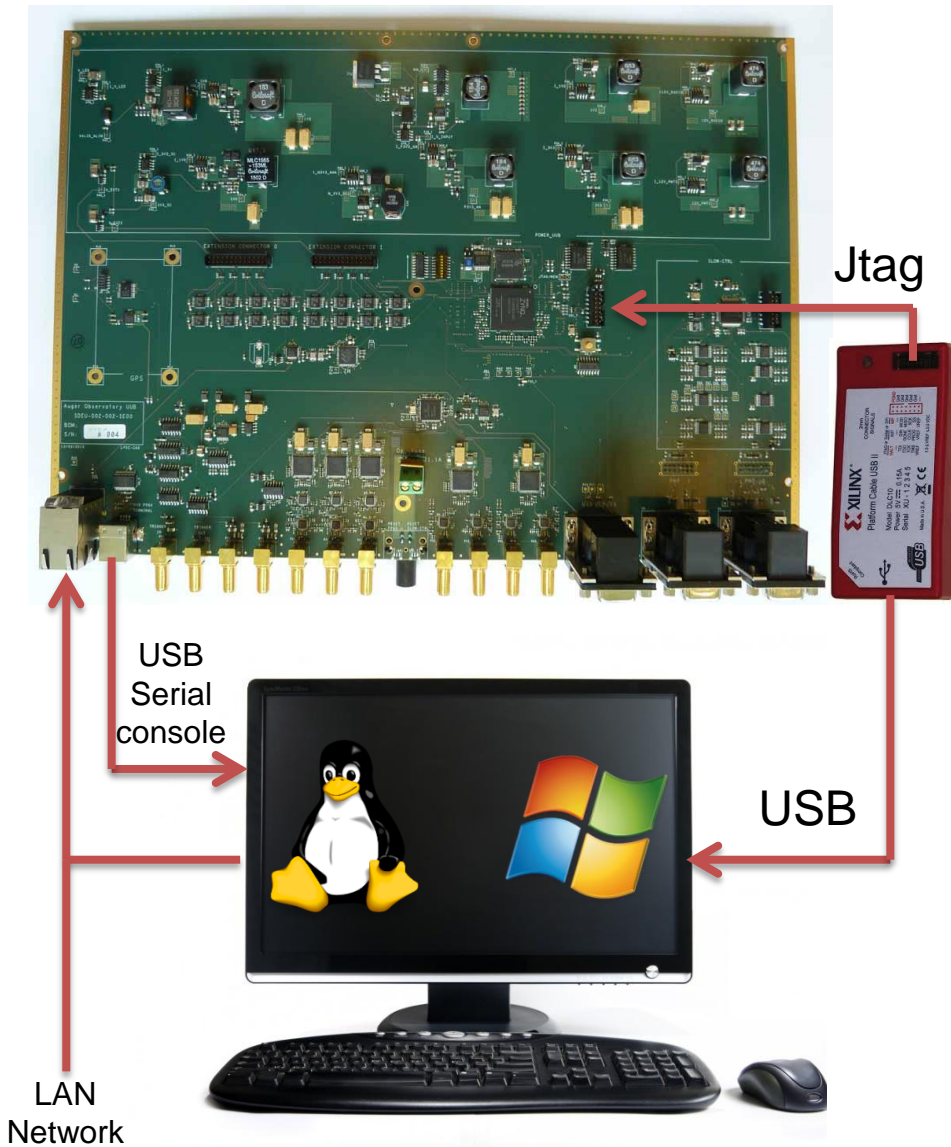
## How to flash petalinux image on UUB's QSPI



Zynq 7020



# UUB connections to flash memory with BOOT.bin



Download the zip file from:

[www.github.com/assiro/UUB\\_PETALINUX\\_WP1](https://www.github.com/assiro/UUB_PETALINUX_WP1)

BOOT.bin is the file to flash in QSPI memory

By SDK is possible to open the workspace into the folder:

**vivado\_uub\_proto.sdk**

In this SDK project you can get the source programs developed in petalinux distribution for UUB and settings to flash the memory.

**AFTER BOOT:**

Petalinux will start after reset on USB serial console

Login: **root**

Password: **root**

MAD address: **00:0A:35:00:22:01**

Web server on IP number that you can read on booting

To watch real time data on web scope run application

**scope -i** to the prompt

Application implemented:

uub\_init

scope

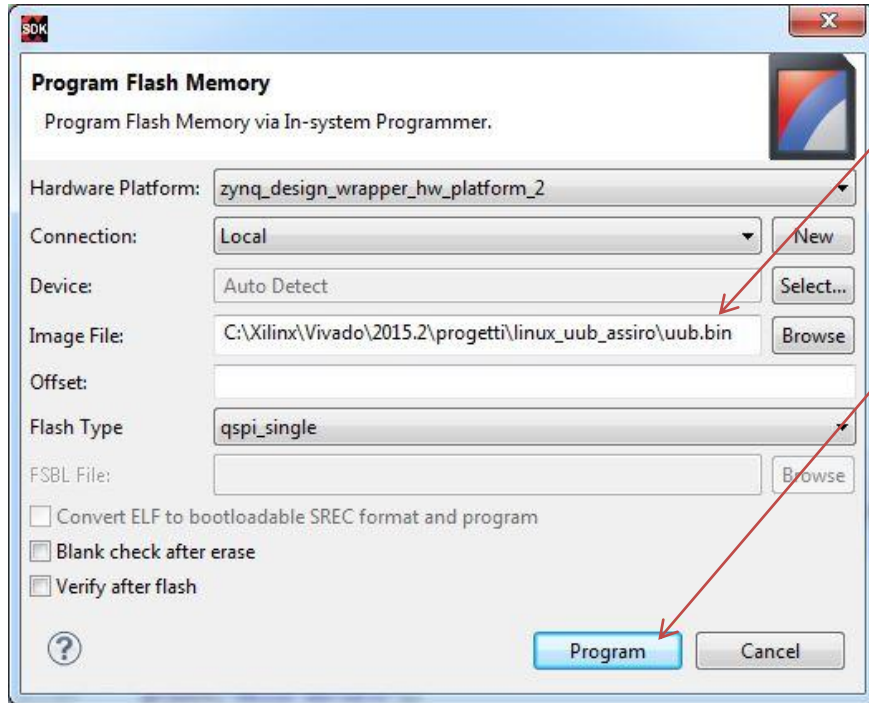
acquire

led

DEVMEM

# How to flash Boot image in the QSPI memory of UUB

In SDK select from the Xilinx Tools menu "**Program flash**". This window will be displayed.

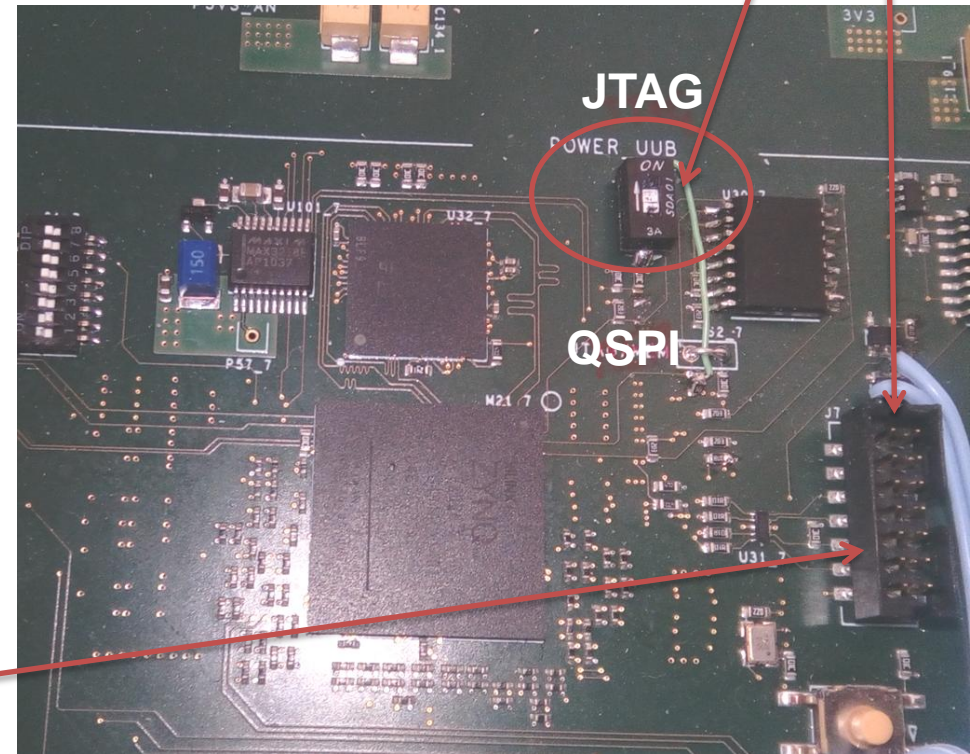


Select the image file generated (BOOT.bin)

Connect the JTAG programmer to the UUB to the J7 connector

Switch up on JTAG side

Power on to the UUB (24Volt) and click on Program

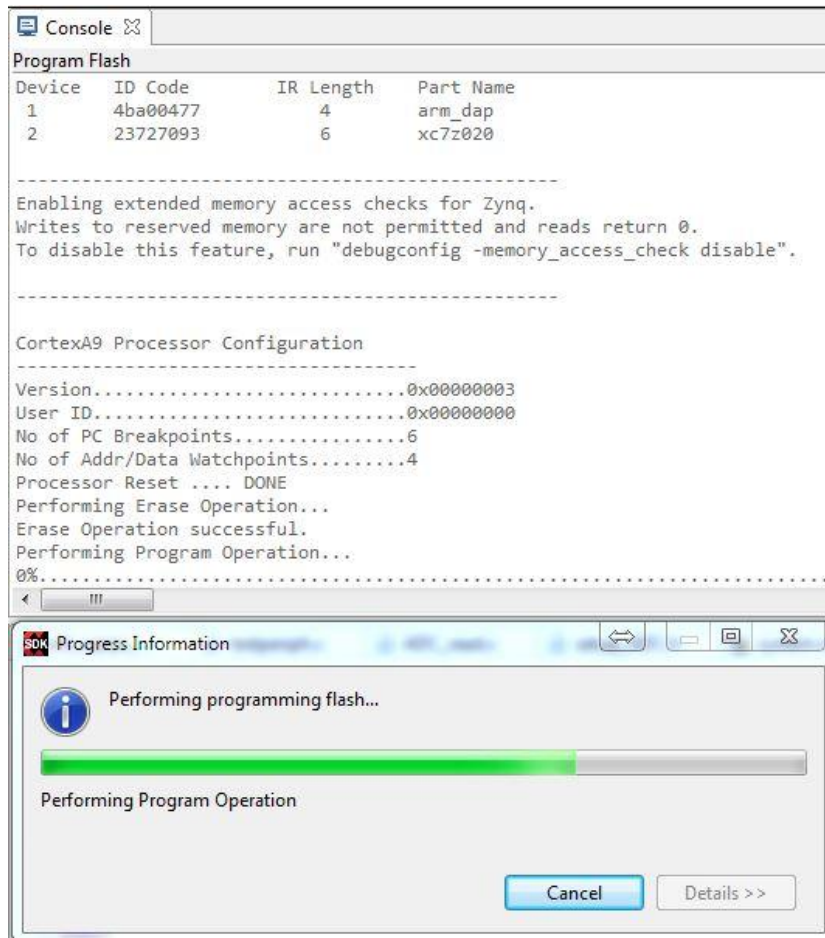


DLC10 xilinx platform cable USB JTAG programmer





The process to program the QSPI takes a very long time (about 25 minutes)



When the programming is done place the switch on **QSPI side** and reset the Zynq.

Connect a USB cable to serial console

Petalinux and his application is now running in to the Zynq....

