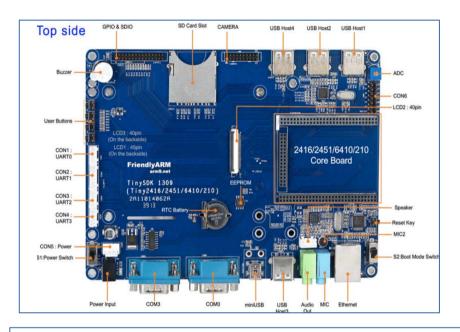
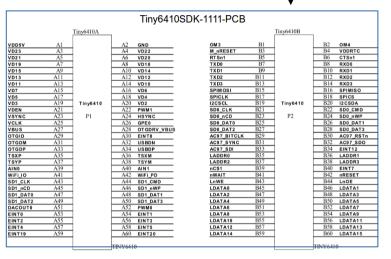
## **Process for GPIO Testing**

Development Kit

Schematic of the development kit





**Connector** information

Device driver

Modify menuconfig script

Compile and build device driver module

Upload the device driver module and user application program to the target platform

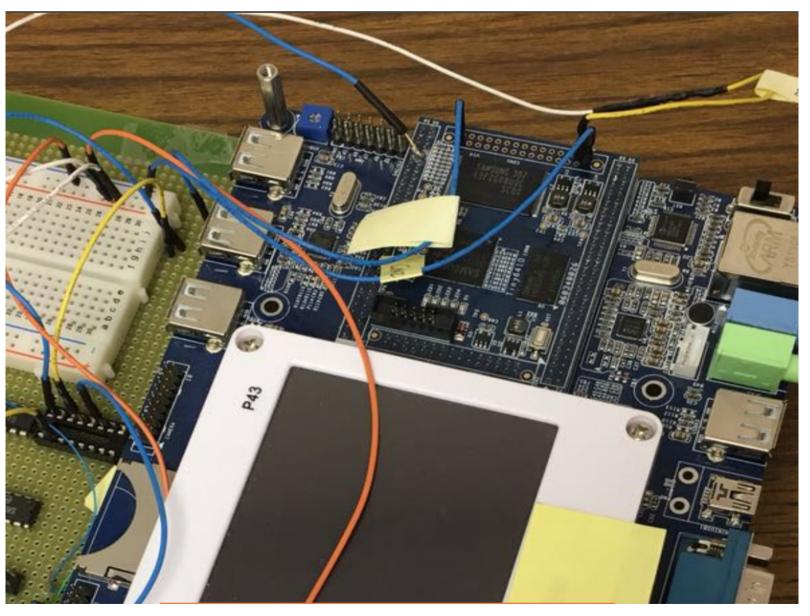
\$insmod device-driver.ko
Then run the user application program

User space: user application program, compile and build the executable

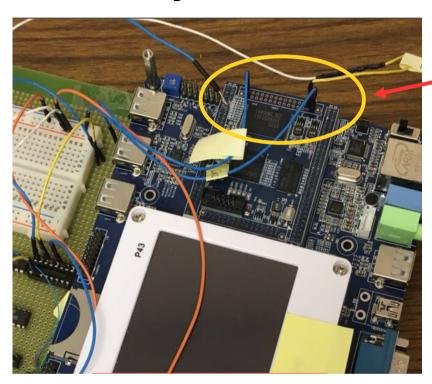
Kernel space:

Device driver example code from source distribution

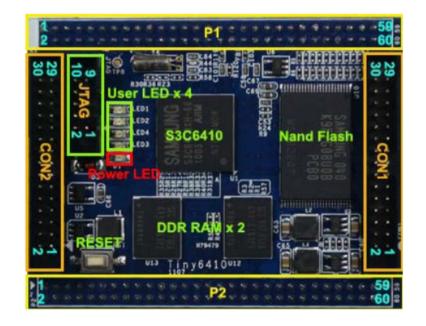
## Hardware Pin Connections For HW1



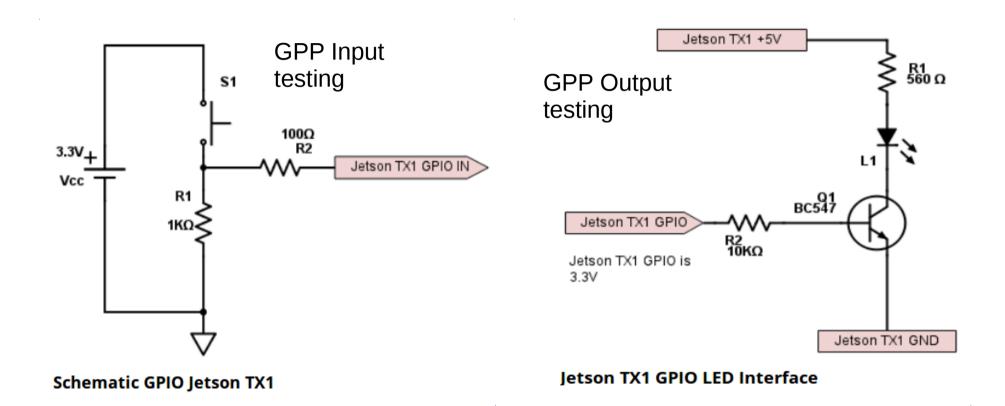
## Identify GPP Port From CON1 Connector



CON1.5	GPE3	CON 1.6	GPE4
CON1.7	GPM0	CON 1.8	GPM1
CON1.9	GPM2	CON1.10	GPM3
CON1.11	GPM4	CON1.12	GPM5
CON1.13	GPQ1	CON1.14	GPQ2
CON1.15	GPQ3	CON1.16	GPQ4
CON1.17	GPQ5	CON1.18	GPQ6
CON1.19	SPICLK0	CON1.20	SPIMISO0
CON1.21	SPICS0	CON1.22	SPIMOSI0
CON1.23	EINT6	CON1.24	EINT9
CON1.25	EINT11	CON1.26	EINT16
CON1.27	EINT17	CON1.28	AIN2
CON1.29	AIN3	CON1.30	DACOUT1



## ARM11 6410 Input/Output Testing



http://www.jetsonhacks.com/2015/12/29/gpio-interfacing-nvidia-jetson-tx1/

Note: this reference design is for Jetson Tx1 but it works for ARM11 board as well.