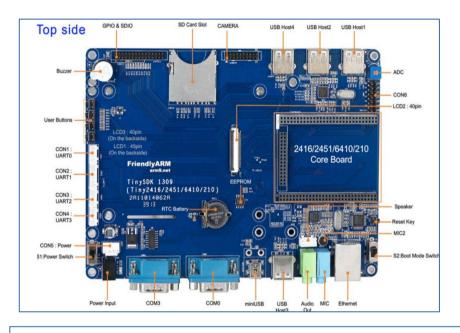
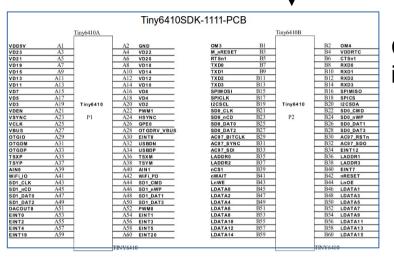
Process for GPIO Testing

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

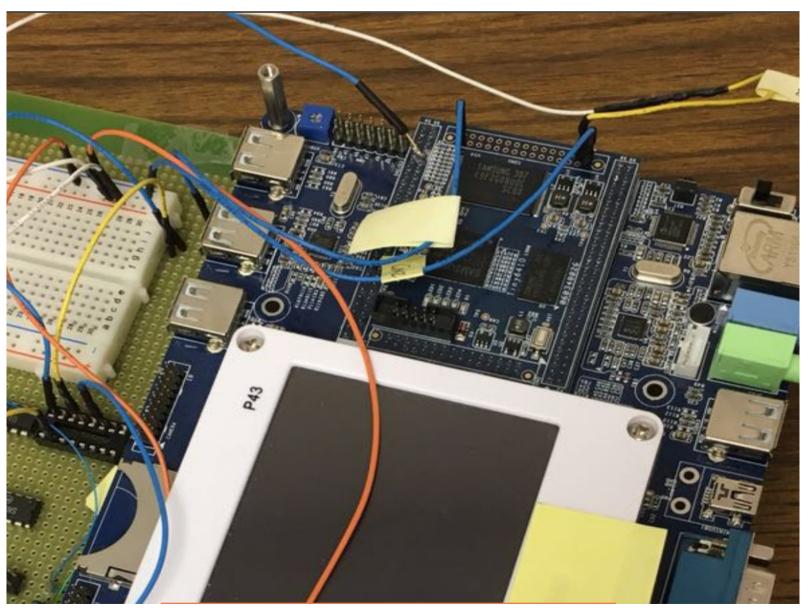
\$insmod device-driver.ko
Then run the user application program

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

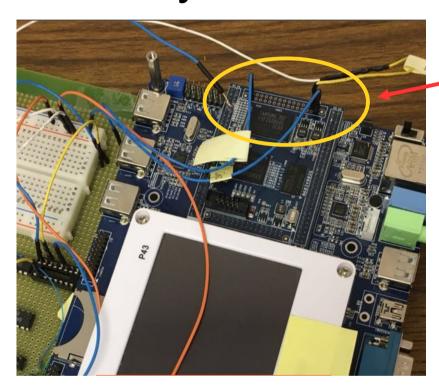
Kernel space:

Device driver example code from source distribution

Hardware Pin Connections For HW1



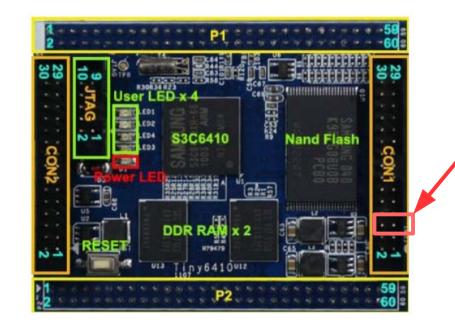
Identify GPP Port From CON1 Connector



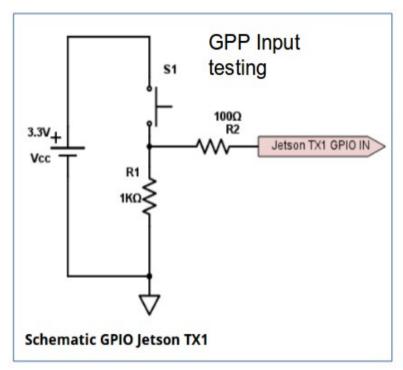
Example:

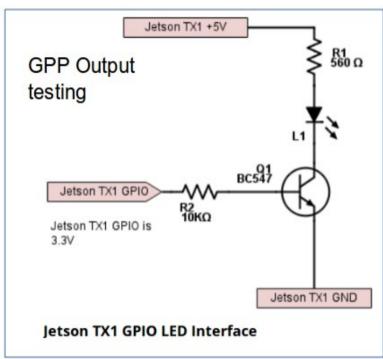
GPE3/CON1-5	Output
GPE4/CON1-6	Input

				·	·
CON1.5	GPE3		C	ON 1.6	GPE4
CON1.7	GPM0		C	ON 1.8	GPM1
CON1.9	GPM2		CC	N1.10	GPM3
CON1.11	GPM4		CC	N1.12	GPM5
CON1.13	GPQ1	12	CC	N1.14	GPQ2
CON1.15	GPQ3		CC	N1.16	GPQ4
CON1.17	GPQ5		CC	N1.18	GPQ6
CON1.19	SPICLK0		CC	N1.20	SPIMISO0
CON1.21	SPICS0		CC	N1.22	SPIMOSI0
CON1.23	EINT6		CC	N1.24	EINT9
CON1.25	EINT11		CC	N1.26	EINT16
CON1.27	EINT17		cc	N1.28	AIN2
CON1.29	AIN3		CC	N1.30	DACOUT1



GPP Input/Output Testing CKT



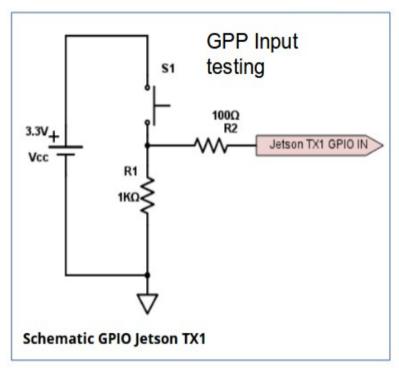


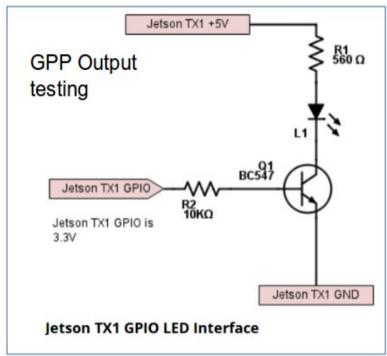
http://www.jetsonhacks.com/2015/12/29/gpio-interfacing-nvidia-jetson-tx1/

Example:

- (1) Design the input testing circuit, calculating the resistor R1 and R2;
- (2) Modify the output testing circuit by removing transistor, so the circuit only uses LED, then calculate the resistor in serial with the LED.

GPP Input/Output Testing CKT





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