

Q1.After you write 74 to /sys/class/gpio/export, will you receive an error when opening /sys/class/gpio/gpio74/direction? Explain your answer.

Yes, we will receive an error as gpio 74 doesn't have the option of enabling or disabling the direction. Starting from GPIO 64, "direction" file is not created. We can only set and access "direction" for a given GPIO till GPIO 63

Q2.Can we receive an interrupt when there is a rising edge on gpio38 which is connected to IO7 directly on Galileo Gen2 board? Explain your answer.

No, you cannot receive an interrupt as this pin does not have an interrupt mode.

Q3.After you export 3 to /sys/class/pwm/pwmchip0/export, what is the period of pwm3 signal? Can you modify it? Explain your answer.

The period is 40ms. It cannot be modified in the path /sys/class/pwm/pwmchip0/pwm3 as you get an error "Permission Denied". If you want to change the period of pwm3, you need to modify using the file path sys/class/pwm/pwmchip0/device/ where you can change "pwm_period"