

1. Linux GPIO# from 64-79 are multiplexed with pwm. They are used for choosing if the output IO pin is gpio/pwm and they are not actual devices. (/sys/class/gpio/gpiochip64/ directory does not have 'device' subdirectory while all other gpiochips have device subdirectory). So the GPIO# from 64-79 does not have 'direction' because it does not need one.

2. No the IO7 (Linux gpio38) does not support interrupts.

3. The period of pwm signals cannot be modified individually. All the 16 channels use a single common period counter and hence can be modified only using 'pwm_period' under /sys/class/pwm/pwmchip0/device/