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# Orange PI PC - How to use GPIO for push buttons: Tutorial



By Schmurtz, April 25, 2018

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### Schmurtz



April 25, 2018





Hi, This topic was a initially a question and become a tutorial to use push buttons on orange pi PC.

This tutorial has been made with an Orange PI PC running on "Armbian 5.35 Orangepipc Debian jessie default 3.4.113.img".

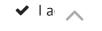
With this example you will be able to launch 3 different scripts for each push button:

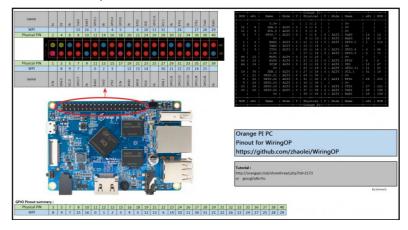
/usr/local/bin/run<Wpi GPIO number>short.sh -> immediately launched when a button is pressed

/usr/local/bin/run<Wpi GPIO number>long.sh -> launched after a long pression

/usr/local/bin/run<Wpi GPIO number>release.sh -> launched when a button is released (but not after a long pression)

I've made this image to know easily see the correspondence between WiringOP and physical Orange PI PC connector:





Mhhh if you want to modify it, you'll find the <u>excel source file</u> here.

#### Sources:

<u>http://orangepi.club/showthread.php?tid=2173</u> -> excellent tutorial for beginners!

<u>https://github.com/zhaolei/WiringOP</u> -> a modified WiringPi for OrangePi

http://nix.zeya.org/wiki/

<u>разработка средств аппаратного управления для orange pi р</u>
<u>c</u> -> a very good example of program in C to use Orange PI
GPIO with push buttons

To install and compile the WiringOP library:

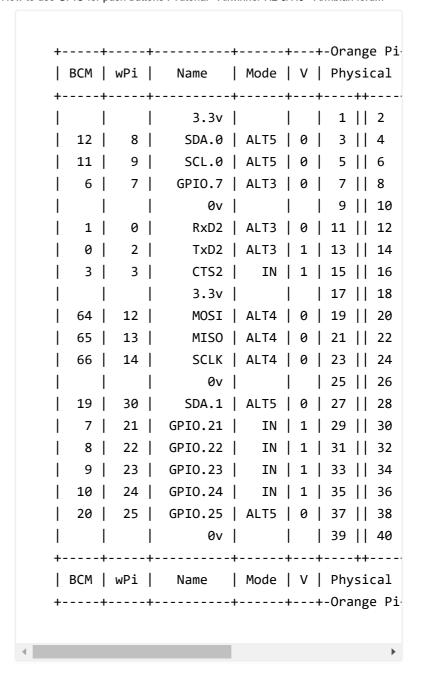
```
mkdir downloads
cd downloads
git clone https://github.com/zhaolei/WiringOP.;
cd WiringOP/
sudo ./build
```

#### Make a test:

gpio readall

You should obtain something like that:





Now we are going to write a program in C to detects pushes on buttons :

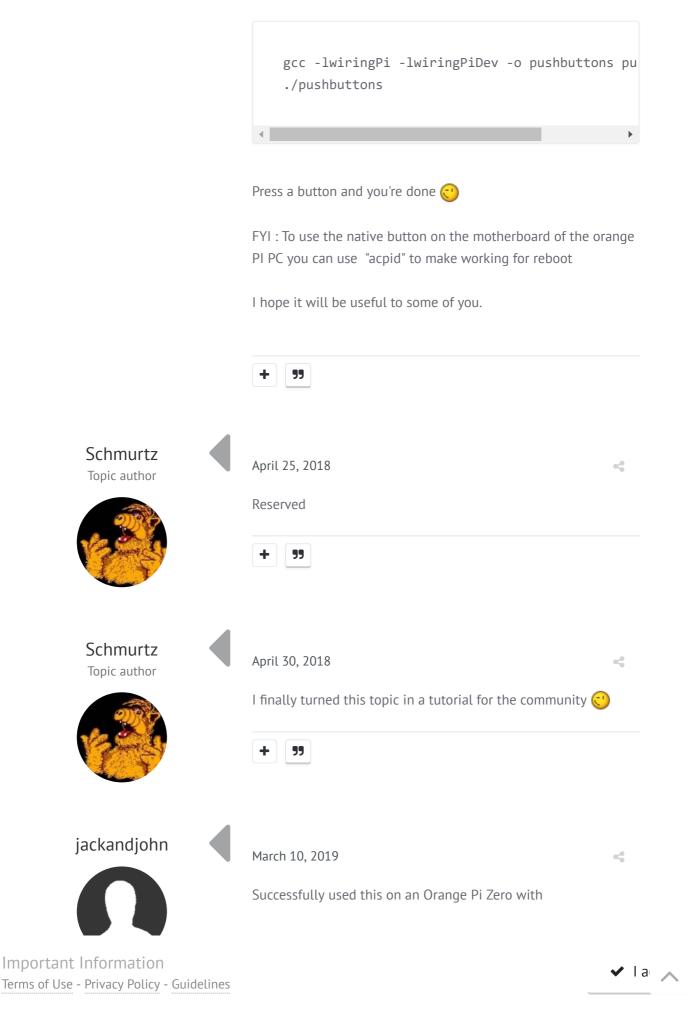
nano pushbuttons.c

The copy / paste the C program below: (you should modify the numbers of buttons that you use, the WiringOP pins that you use, you can create scripts later)

A Reveal hidden contents

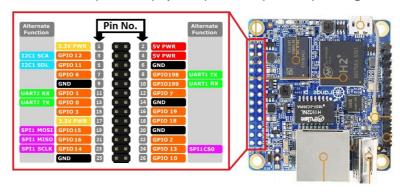


OK now compile it and run it:



```
unsigned int nums = 2;
unsigned int WpiPinsSelection[] = {8, 24};
```

Pin "24" corresponds to physical pin 26 as per this pinout guide:





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