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***** wiringpiISRを使ってロータリーエンコーダを受け付ける *****

#!/usr/bin/env python
# -*- coding: utf-8 -*-

import wiringpi as wpi
enc_count = 5000                                #count値を予めセット

phA = 5 # pin5 to phase A
phB = 4 # pin4 to phase B

wpi.wiringPiSetup()
wpi.pinMode(7,3)                                #pin7をクロックモードにセット
wpi.gpioClockSet(7,enc_count)
wpi.pinMode(phA,0)
wpi.pullUpDnControl(phA,2);
wpi.pinMode(phB,0)
wpi.pullUpDnControl(phB,2);
wpi.pinMode(6,1)

def phase_A():
    global enc_count
    pha_state = wpi.digitalRead(phA)
    phb_state = wpi.digitalRead(phB)

    print"int ph_A"
    if (pha_state == 1) & (phb_state == 0):
        enc_count = enc_count + 1
    elif (pha_state == 0) & (phb_state == 1):
        enc_count = enc_count + 1
    elif (pha_state == 1) & (phb_state == 1):
        enc_count = enc_count - 1
    elif (pha_state == 0) & (phb_state == 0):
        enc_count = enc_count - 1
    else:
        print"no state"
    print enc_count
    wpi.gpioClockSet(7,enc_count)
    wpi.delay(1)

def phase_B():
    global enc_count
    pha_state = wpi.digitalRead(phA)
    phb_state = wpi.digitalRead(phB)

    print"int ph_B"
    if (phb_state == 1) & (pha_state == 0):
        enc_count = enc_count - 1
    elif (phb_state == 0) & (pha_state == 1):
        enc_count = enc_count - 1
    elif (phb_state == 1) & (pha_state == 1):
        enc_count = enc_count + 1
    elif (phb_state == 0) & (pha_state == 0):
        enc_count = enc_count + 1
    else:
        print"no state"
    print enc_count
    wpi.gpioClockSet(7,enc_count)
    wpi.delay(1)

wpi.wiringPiISR(phA,2,phase_A)
wpi.wiringPiISR(phB,2,phase_B)

while 1:

    if (enc_count % 10 ) == 0 :
        wpi.digitalWrite(6,1)
    else :
        wpi.digitalWrite(6,0)
    wpi.delay(1000)
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エンコーダのcw/ccw判断について

