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1 #-*- coding: utf-8 -*-
2 import smbus
3 import time
4 #
5 # 2ワイヤ リアルタイムクロック ドライブソフト
6 #
7 _channel = 1 # SMBusのchannel
   番号
8 _command = 0x00 # コマンド文
9 _data = 0x40 # データ文
10 _addr0 = 0x30 # I2Cアドレス
11 _addr1 = 0x31 #
12 _addr2 = 0x32 #
13 _addr3 = 0x33 #
14 _addr4 = 0x34 #
15 _addr5 = 0x35 #
16 _addr6 = 0x36 #
17 _addr7 = 0x37 #
18
19 i2c = smbus.SMBus(_channel)
20 #Byte Dataの処理
21 #ad i2cアドレス
22 #dt 書き込みデータ
23 def read_Byte(ad): return
   i2c.read_byte(ad)
24 def write_Byte(ad,dt):
   i2c.write_byte(ad,dt)
25 #データの読み書き
26 #ad i2cアドレス
27 #no 読み出し数
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28 #dt 書き込みデータ
29 def read_i2c_block(ad,no):      return
    i2c.read_i2c_block_data(ad,_data,no)
30 def write_i2c_block(ad,dt):
    i2c.write_i2c_block_data(ad,_data,dt)
31
32 def convD(dt):
33     d = 0
34     if dt & 0x80: d += 1
35     if dt & 0x40: d += 2
36     if dt & 0x20: d += 4
37     if dt & 0x10: d += 8
38     return d
39 def convU(dt):
40     d = 0
41     if dt & 0x08: d += 0x1
42     if dt & 0x04: d += 0x2
43     if dt & 0x02: d += 0x4
44     return d
45
46 def main():
47     #初期化
48     write_Byte(_addr0,0x80)
49     #時計の読み込み
50     td = [0,0,0,0,0,0]
51     TIME = read_i2c_block(_addr3,3)
52     TIME1 = TIME
53     while 1:
54         TIME =
    read_i2c_block(_addr3,3)
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55     td[0] = convU(TIME[0])
56     td[1] = convD(TIME[0])
57     td[2] = convU(TIME[1])
58     td[3] = convD(TIME[1])
59     td[4] = convU(TIME[2])
60     td[5] = convD(TIME[2])
61     print(td)
62     time.sleep(1)
63     while TIME == TIME1:
64         TIME =
65         read_i2c_block(_addr3,3)
66         TIME1 = TIME
67 if __name__ == '__main__':
68     main()
```