Server:

#import necessary package

import socket

import time

import sys

import RPi.GPIO as GPIO

#define host ip: Rpi's IP

HOST\_IP = "192.168.1.106"

HOST\_PORT = 8888

print("Starting socket: TCP...")

#1.create socket object:socket=socket.socket(family,type)

socket\_tcp = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

print("TCP server listen @ %s:%d!" %(HOST\_IP, HOST\_PORT) )

host\_addr = (HOST\_IP, HOST\_PORT)

#2.bind socket to addr:socket.bind(address)

socket\_tcp.bind(host\_addr)

#3.listen connection request:socket.listen(backlog)

socket\_tcp.listen(1)

#4.waite for client:connection,address=socket.accept()

socket\_con, (client\_ip, client\_port) = socket\_tcp.accept()

print("Connection accepted from %s." %client\_ip)

socket\_con.send("Welcome to RPi TCP server!")

#5.handle

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11,GPIO.OUT)

print("Receiving package...")

while True:

try:

data=socket\_con.recv(512)

if len(data)>0:

print("Received:%s"%data)

if data=='1':

GPIO.output(11,GPIO.HIGH)

elif data=='0':

GPIO.output(11,GPIO.LOW)

socket\_con.send(data)

time.sleep(1)

continue

except Exception:

socket\_tcp.close()

sys.exit(1)

下面是PC上的Client.py：

import socket

import time

import sys

#RPi's IP

SERVER\_IP = "192.168.1.106"

SERVER\_PORT = 8888

print("Starting socket: TCP...")

server\_addr = (SERVER\_IP, SERVER\_PORT)

socket\_tcp = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

while True:

try:

print("Connecting to server @ %s:%d..." %(SERVER\_IP, SERVER\_PORT))

socket\_tcp.connect(server\_addr)

break

except Exception:

print("Can't connect to server,try it latter!")

time.sleep(1)

continue

print("Please input 1 or 0 to turn on/off the led!")

while True:

try:

data = socket\_tcp.recv(512)

if len(data)>0:

print("Received: %s" % data)

command=raw\_input()

socket\_tcp.send(command)

time.sleep(1)

continue

except Exception:

socket\_tcp.close()

socket\_tcp=None

sys.exit(1)

原文：<https://blog.csdn.net/k_atherine/article/details/50264663>