

树莓派第二十一课 1602液晶屏C版本

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pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ ls
1602_zz1.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ nano 1602_zz1.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ nano guide21
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ nano guide21
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ nano guide21
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ nano guide21
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ gpio readall
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|      |      | 3.3v     |      |   | 1 || 2 |      |      | 5v       |      |      |
| 2     | 8    | SDA.1    | ALT0 | 1 | 3 || 4 |      |      | 5V       |      |      |
| 3     | 9    | SCL.1    | ALT0 | 1 | 5 || 6 |      |      | 0v       |      |      |
| 4     | 7    | GPIO. 7  | IN   | 0 | 7 || 8 | 1    | ALT0 | TxD      | 15   | 14   |
|      |      | 0v       |      |   | 9 || 10 | 1    | ALT0 | RxD      | 16   | 15   |
| 17    | 0    | GPIO. 0  | IN   | 0 | 11 || 12 | 0    | IN   | GPIO. 1  | 1    | 18   |
| 27    | 2    | GPIO. 2  | IN   | 0 | 13 || 14 |      |      | 0v       |      |      |
| 22    | 3    | GPIO. 3  | IN   | 0 | 15 || 16 | 1    | OUT  | GPIO. 4  | 4    | 23   |
|      |      | 3.3v     |      |   | 17 || 18 | 0    | OUT  | GPIO. 5  | 5    | 24   |
| 10    | 12   | MOSI     | ALT0 | 0 | 19 || 20 |      |      | 0v       |      |      |
| 9     | 13   | MISO     | ALT0 | 0 | 21 || 22 | 1    | OUT  | GPIO. 6  | 6    | 25   |
| 11    | 14   | SCLK     | ALT0 | 0 | 23 || 24 | 1    | ALT0 | CE0      | 10   | 8    |
|      |      | 0v       |      |   | 25 || 26 | 1    | ALT0 | CE1      | 11   | 7    |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 28    | 17   | GPIO.17  | IN   | 0 | 51 || 52 | 0    | IN   | GPIO.18  | 18   | 29   |
| 30    | 19   | GPIO.19  | IN   | 0 | 53 || 54 | 0    | IN   | GPIO.20  | 20   | 31   |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ gcc 1602_zz1.c -o 1602_zz1 -lwiringPi
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ ls
1602_zz1 1602_zz1.c guide21
pi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $ sudo ./1602_zz1
^Cpi@raspberrypi: ~/树莓派基础套件程序资料/第二十一课 1602液晶屏C语言版本/ $

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图一

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pi@raspberrypi: ~/编写板烧焊运6源桶欢绵婧答壁勤枞/纺 第锦很靖璇? 1602婆叉檣潮度璇 ■ 浏览器
GNU nano 2.2.6 File: 1602_zz1.c

#include <wiringPi.h>

int main()
{
//int RS=12,RW=11,EN=2;
//int DB0=3,DB1=4,DB2=5,DB3=6,DB4=7,DB5=8,DB6=9,DB7=10;
int DB0=0,DB1=1,DB2=2,DB3=3,DB4=4,DB5=5,DB6=6,DB7=7;
int RS=12,RW=13,EN=14;
//int i;
int i;

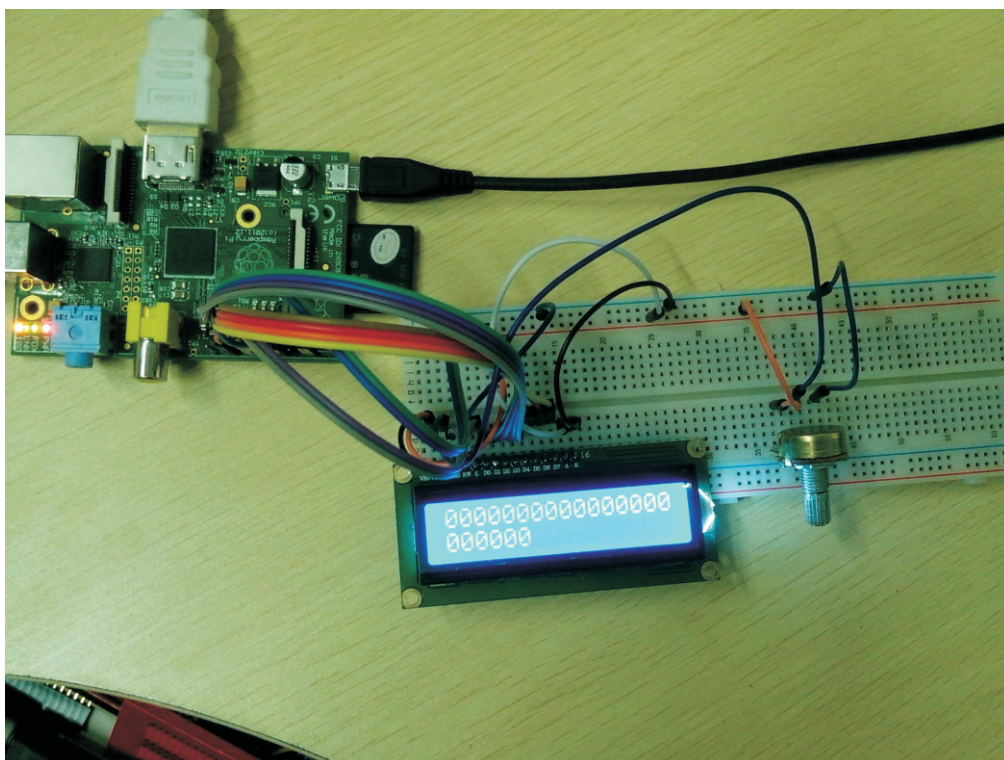
wiringPiSetup();

//Serial.begin(9600);
pinMode(RS,OUTPUT);
pinMode(RW,OUTPUT);
pinMode(EN,OUTPUT);
pinMode(DB0,OUTPUT);
pinMode(DB1,OUTPUT);
pinMode(DB2,OUTPUT);
pinMode(DB3,OUTPUT);
pinMode(DB4,OUTPUT);
pinMode(DB5,OUTPUT);
pinMode(DB6,OUTPUT);
pinMode(DB7,OUTPUT);

digitalWrite(RS,HIGH);
digitalWrite(RW,LOW);
digitalWrite(RS,LOW);
digitalWrite(EN,LOW);
delay(1);
//digitalWrite(DB0,0);
//digitalWrite(DB1,0);
digitalWrite(DB2,0);

^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
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图二



图三