

树莓派第十四课 四位数码管

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pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课 四位数码管/
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课 四位数码管 $ ls
4shuma.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课 四位数码管 $ nano guide14
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课 四位数码管 $ nano guide14
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课 四位数码管 $ nano 4shuma.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课 四位数码管 $ 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   | 1 | 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 |  0 | IN   | GPIO. 4  |  4  | 23  |
|      |      | 3.3v     |      |   | 17 || 18 |  0 | IN   | GPIO. 5  |  5  | 24  |
| 10   | 12   | MOSI     | ALT0 | 0 | 19 || 20 |      | 0v       |      |      |
|  9   | 13   | MISO     | ALT0 | 0 | 21 || 22 |  0 | IN   | 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/第十四课 四位数码管 $ gcc 4shuma.c -o 4shuma -lwiringPi
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课 四位数码管 $ ls
4shuma 4shuma.c guide14
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课 四位数码管 $ sudo ./4shuma
^Cpi@raspberrypi: ~/树莓派基础套件程序资料/第十四课 四位数码管 $

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图一

```
pi@raspberrypi: ~/...
GNU nano 2.2.6 File: 4shuma.c

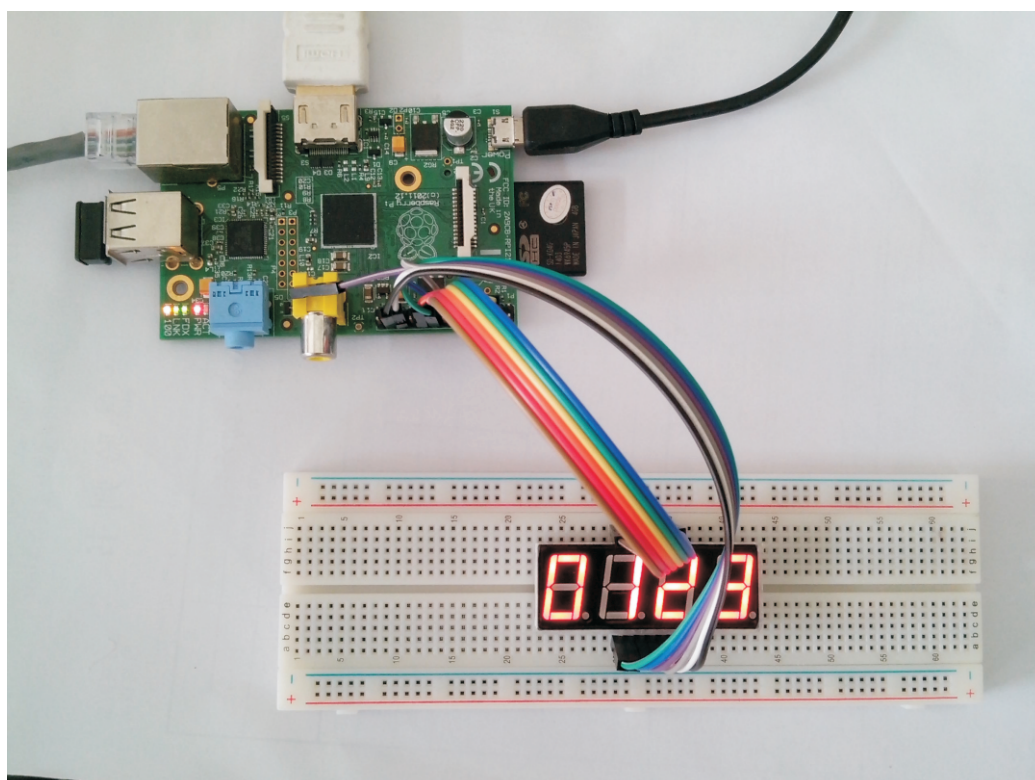
#include <wiringPi.h>
#include <stdio.h>
#define a 0
#define b 1
#define c 2
#define d 3
#define e 4
#define f 5
#define g 6
#define one 7
#define two 8
#define three 9
#define four 10

void display0()
{
    digitalWrite(a,HIGH);
    digitalWrite(b,HIGH);
    digitalWrite(c,HIGH);
    digitalWrite(d,HIGH);
    digitalWrite(e,HIGH);
    digitalWrite(f,HIGH);
    digitalWrite(g,LOW);
}

void display1()
{
    digitalWrite(a,LOW);
    digitalWrite(b,HIGH);
}

^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
```

图二



图三