

树莓派第十九课 舵机C语言简单控制

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pi@raspberrypi: ~/树莓派基础套件程序资料 $ cd 第十九课 \ 舵机C语言简单控制/
c语言简单控制pi@raspberrypi ~/树莓派基础套件程序资料/第十九课 舵机C语言简单控制 $ ls
servo digital.c
c语言简单控制pi@raspberrypi ~/树莓派基础套件程序资料/第十九课 舵机C语言简单控制 $ nano servo_digital.c
c语言简单控制pi@raspberrypi ~/树莓派基础套件程序资料/第十九课 舵机C语言简单控制 $ nano guide19
c语言简单控制pi@raspberrypi ~/树莓派基础套件程序资料/第十九课 舵机C语言简单控制 $ nano guide19
c语言简单控制pi@raspberrypi ~/树莓派基础套件程序资料/第十九课 舵机C语言简单控制 $ gpio readall
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2   | 8   | SDA.1    | ALT0 | 1 | 3   | 4   |      | 5v       |     |     | |
| 3   | 9   | SCL.1    | ALT0 | 1 | 5   | 6   |      | 5V       |     |     |
| 4   | 7   | GPIO. 7   | OUT  | 0 | 7   | 8   | 1    | OUT      | TxD  | 15  | 14  |
|     |     | 0v       |      |   | 9   | 10  | 0    | OUT      | RxD  | 16  | 15  |
| 17  | 0   | GPIO. 0   | OUT  | 1 | 11  | 12  | 0    | OUT      | GPIO. 1 | 1  | 18  |
| 27  | 2   | GPIO. 2   | OUT  | 0 | 13  | 14  |      | 0v       |      |     |
| 22  | 3   | GPIO. 3   | OUT  | 1 | 15  | 16  | 1    | OUT      | GPIO. 4 | 4  | 23  |
|     |     | 3.3v     |      |   | 17  | 18  | 1    | OUT      | GPIO. 5 | 5  | 24  |
| 10  | 12  | MOSI     | OUT  | 0 | 19  | 20  |      | 0v       |      |     |
| 9   | 13  | MISO     | OUT  | 0 | 21  | 22  | 0    | OUT      | GPIO. 6 | 6  | 25  |
| 11  | 14  | SCLK     | OUT  | 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 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
c语言简单控制pi@raspberrypi ~/树莓派基础套件程序资料/第十九课 舵机C语言简单控制 $ gcc servo_digital.c -o servo_digital -lwiringPi
c语言简单控制pi@raspberrypi ~/树莓派基础套件程序资料/第十九课 舵机C语言简单控制 $ ls
guide19 servo_digital servo_digital.c
c语言简单控制pi@raspberrypi ~/树莓派基础套件程序资料/第十九课 舵机C语言简单控制 $ sudo ./servo_digital
^Cc语言简单控制pi@raspberrypi ~/树莓派基础套件程序资料/第十九课 舵机C语言简单控制 $

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图一

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

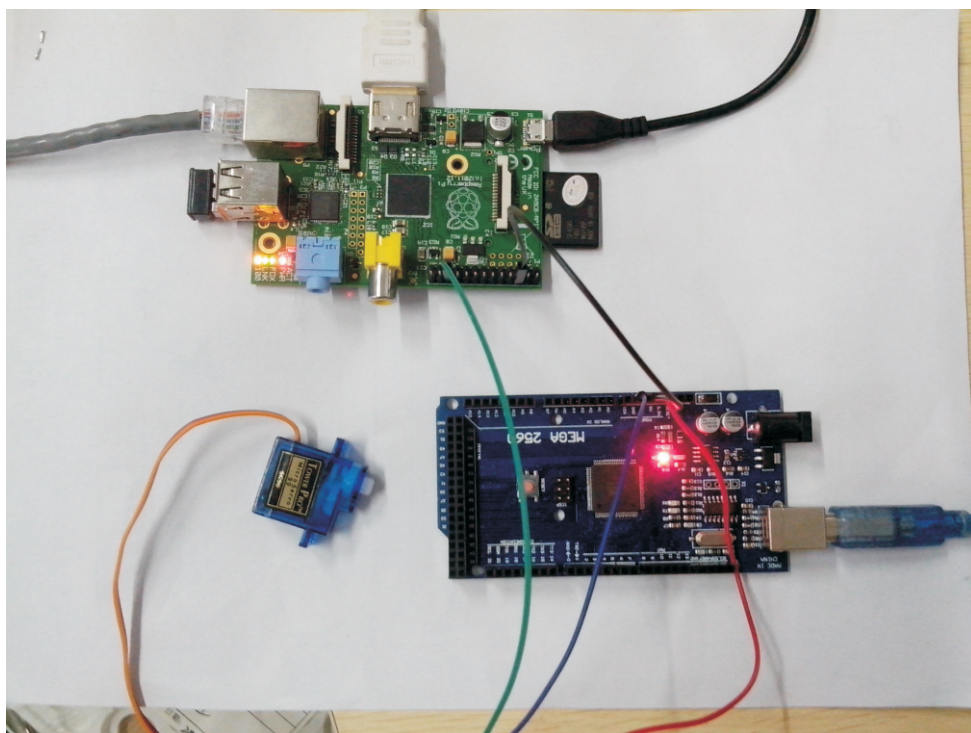
#include <wiringPi.h>

int main()
{
    wiringPiSetup();
    pinMode(6, OUTPUT);
    int i;
    for(;;)
    {
        for(i=0;i<50;i++)
        {
            digitalWrite(6, HIGH);
            delay(1);
            digitalWrite(6, LOW);
            delay(17);
        }
        delay(100);
        for(i=0;i<50;i++)
        {
            digitalWrite(6, HIGH);
            delay(2);
            digitalWrite(6, LOW);
            delay(16);
        }
    }

    return 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

图二



图三