

Project 12: LM35 temperature sensor

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pi@raspberrypi: ~/树莓派基础套件程序资料/LM35温度传感器
pi@raspberrypi: ~/树莓派基础套件程序资料/LM35温度传感器 $ ls
LM35.c
pi@raspberrypi: ~/树莓派基础套件程序资料/LM35温度传感器 $ nano LM35.c
pi@raspberrypi: ~/树莓派基础套件程序资料/LM35温度传感器 $ gpio readall
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|    2 |    8 |   SDA.1  |  ALTO | 1 |    3    | 4 |      |   5V     |     |     | |
|    3 |    9 |   SCL.1  |  ALTO | 1 |    5    | 6 |      |   0v     |     |     |
|    4 |    7 | GPIO. 7  |   IN  | 1 |    7    | 8 | 1 | ALTO | TxD    | 15 | 14 |
|      |      |   0v     |      |  |    9    |10 | 1 | ALTO | 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   |  ALTO | 0 |   19    |20 |   |      |   0v     |     |     |
|    9 |   13 |   MISO   |  ALTO | 0 |   21    |22 | 0 | IN   | GPIO. 6 | 6  | 25 |
|   11 |   14 |   SCLK   |  ALTO | 0 |   23    |24 | 1 | ALTO | CE0     | 10 | 8  |
|      |      |   0v     |      |  |   25    |26 | 1 | ALTO | 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/LM35温度传感器 $ gcc -Wall -o LM35 LM35.c -lwiringPi
pi@raspberrypi: ~/树莓派基础套件程序资料/LM35温度传感器 $ ls
LM35 LM35.c
pi@raspberrypi: ~/树莓派基础套件程序资料/LM35温度传感器 $ sudo ./LM35

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Pic. 1

