

树莓派高级版套件 h

http://keyes-robot.taobao.com

6 DS3231精密时钟

1 DS3231配置过程

```
# Remove the module blacklist entry so it can be loaded on boot
sudo sed -i 's/blacklist i2c-bcm2708/#blacklist i2c-bcm2708/' /etc/modprobe.d/raspi-blacklist.conf

# Load the module now
sudo modprobe i2c-bcm2708

# Notify Linux of the Dallas RTC device
echo ds1307 0x68 | sudo tee /sys/class/i2c-adapter/i2c-1/new_device

# Test whether Linux can see our RTC module.
sudo hwclock
```

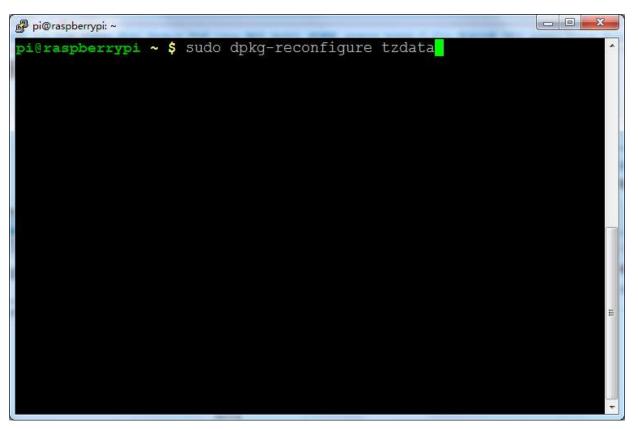
That's it! You can also add the i2c initialisation command to rc.local which means it will be run at every boot up;

```
# Add the RTC device on boot
sudo sed -i 's#'exit O$#echo ds1307 Ox68 > /sys/class/i2c-adapter/i2c-1/new_device#' /etc/rc.local
echo exit O | sudo tee -a /etc/rc.local
```

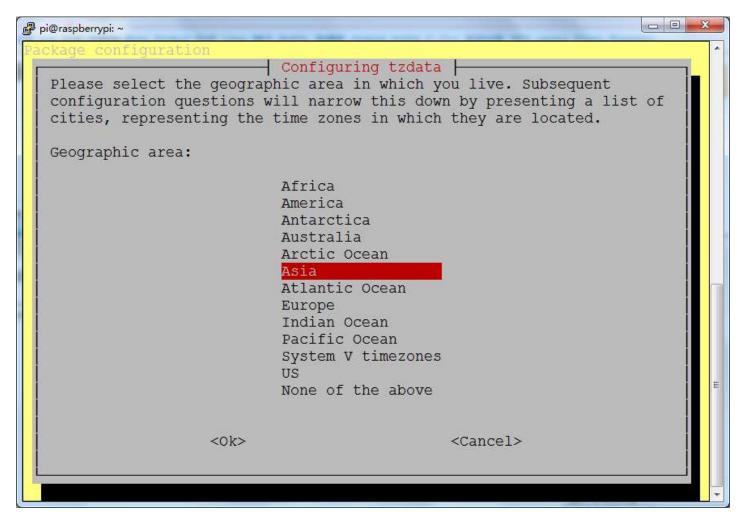
This doesn't cover automatically setting the clock on boot and but you can do so by adding another line (above exit 0) to rc.local with;

```
hwclock =s
```

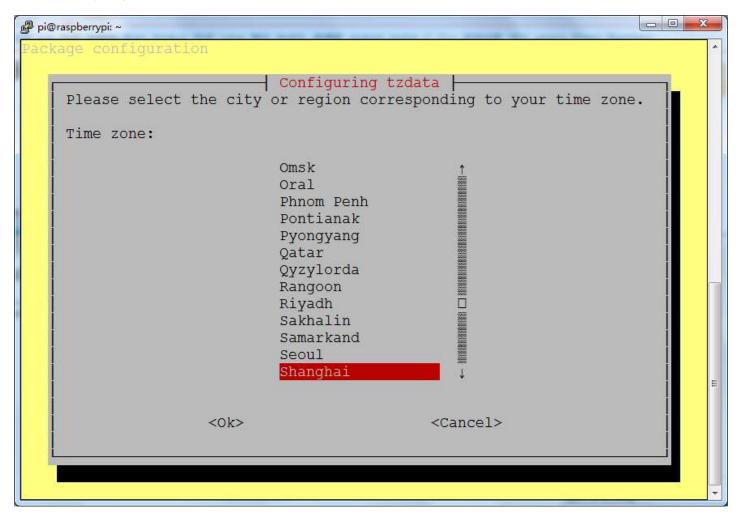
2.1 配置树莓派时区:



2.2 配置树莓派时区



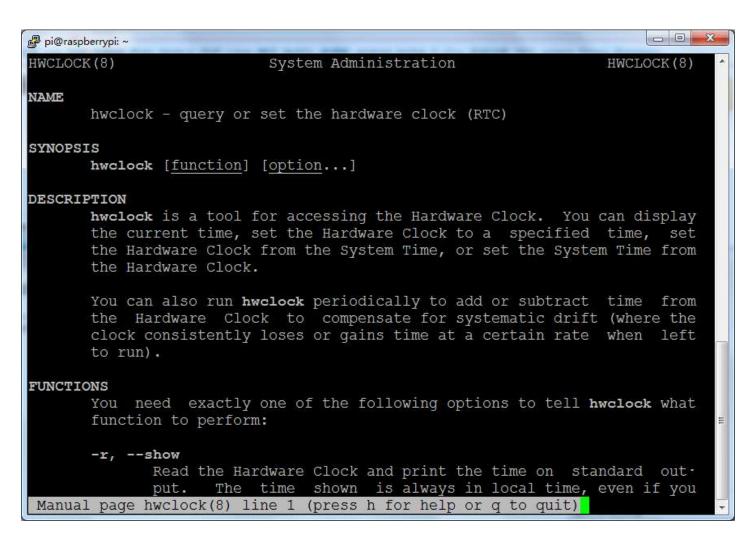
2.3 配置树莓派时区



3 配置之后系统时间和DS3231时间显示效果

```
- - X
pi@raspberrypi: ~
pi@raspberrypi ~ $ sudo dpkg-reconfigure tzdata
Current default time zone: 'Asia/Shanghai'
Local time is now:
                        Wed Aug 26 15:20:30 CST 2015.
Universal Time is now: Wed Aug 26 07:20:30 UTC 2015.
pi@raspberrypi ~ $ date
Wed Aug 26 15:20:44 CST 2015
pi@raspberrypi ~ $ sudo hwclock
Wed 26 Aug 2015 15:20:55 CST -0.085394 seconds
pi@raspberrypi ~ $ sudo hwclock -w
pi@raspberrypi ~ $ sudo hwclock -w
pi@raspberrypi ~ $ date
Wed Aug 26 15:21:17 CST 2015
pi@raspberrypi ~ $ sudo hwclock
Wed 26 Aug 2015 15:21:20 CST -0.225041 seconds
pi@raspberrypi ~ $ man hwclock
```

4 man hwclock 用法说明



5 实验接线图

