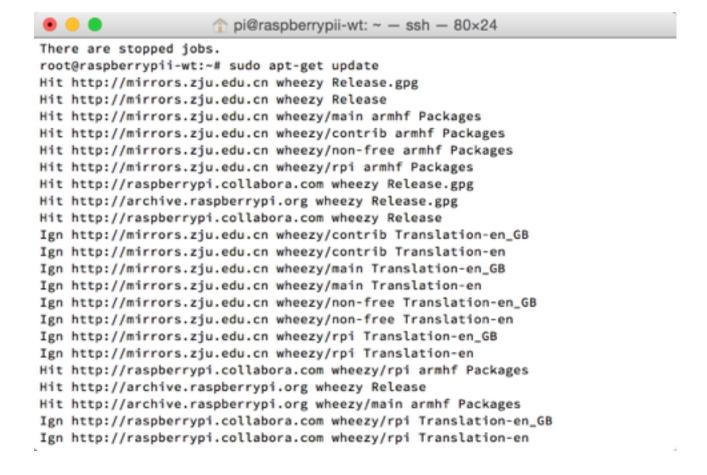


1. 安装树莓派的一系列更新: 使用命令

sudo apt-get update sudo apt-get upgrade

使用浙大的镜像站的资源(就是快)。



2. 修改音频输出端口, 改为耳机输出

```
root@raspberrypii-wt:~# sudo amixer cset numid=3 1
numid=3,iface=MIXER,name='PCM Playback Route'
   ; type=INTEGER,access=rw-----,values=1,min=0,max=2,step=0
   : values=1
root@raspberrypii-wt:~# ||
```

使用命令: sudo amixer cset numid=3 1

3. 安装shairport前需要预装一些依赖软件,使用命令:

sudo apt-get install git libao-dev libssl-dev libcrypt-openssl-rsa-perl libio-socket- inet6-perl libwww-perl avahi-utils libmodule-build-perl

大约20M的内容

```
👚 pi@raspberrypii-wt: ~ — ssh — 80×24
root@raspberrypii-wt:~# sudo apt-get install git libao-dev libssl-dev libcrypt-o
penssl-rsa-perl libio-socket-inet6-perl libwww-perl avahi-utils libmodule-build-
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version.
git set to manually installed.
The following extra packages will be installed:
  avahi-daemon bind9-host geoip-database libalgorithm-c3-perl libao-common
  libao4 libavahi-core7 libbind9-80 libclass-c3-perl libclass-c3-xs-perl
  libcrypt-openssl-bignum-perl libdata-optlist-perl libdata-section-perl
  libdns88 libencode-locale-perl libfile-listing-perl libfont-afm-perl
  libgeoip1 libhtml-form-perl libhtml-format-perl libhtml-parser-perl
  libhtml-tagset-perl libhtml-tree-perl libhttp-cookies-perl
  libhttp-daemon-perl libhttp-date-perl libhttp-message-perl
  libhttp-negotiate-perl libio-socket-ssl-perl libisc84 libiscc80 libisccfg82
  liblwp-mediatypes-perl liblwp-protocol-https-perl liblwres80
  libmailtools-perl libmodule-signature-perl libmro-compat-perl
  libnet-http-perl libnet-ssleay-perl libnss-mdns libparams-util-perl
  libpod-readme-perl libregexp-common-perl libsocket6-perl
  libsoftware-license-perl libssl-doc libsub-exporter-perl libsub-install-perl
  libtext-template-perl liburi-perl libwww-robotrules-perl
Suggested packages:
```

由于ios6的升级,我们需要添加名为Perl NET-SDP包的支持

## 使用命令:

git clone https://github.com/njh/perl-net-sdp.git perl-net-sdp

```
root@raspberrypii-wt:~# git clone https://github.com/njh/perl-net-sdp.git perl-n
et-sdp
Cloning into 'perl-net-sdp'...
```

接下来我们使用Perl编译安装NET-SDP,详见下图

```
↑ pi@raspberrypii-wt: ~ — ssh — 80×24

 Resolving deltas: 100% (83/83), done.
root@raspberrypii-wt:~# cd perl-net-sdp/
 root@raspberrypii-wt:~/perl-net-sdp# perl Build.PL
WARNING: the following files are missing in your kit:
         Makefile.PL
         META.yml
Please inform the author.
Created MYMETA.yml and MYMETA.json
Creating new 'Build' script for 'Net-SDP' version '0.07'
root@raspberrypii-wt:~/perl-net-sdp# sudo ./Build
Building Net-SDP
root@raspberrypii-wt:~/perl-net-sdp# sudo ./Build test
t/00use.t ..... ok
t/10generate.t .. ok
t/10parse.t ..... ok
t/20repeat.t .... ok
t/30asstring.t .. ok
All tests successful.
Files=5, Tests=69, 5 wallclock secs ( 0.82 usr 0.05 sys + 3.01 cusr 0.17 csy
s = 4.05 CPU
Result: PASS
root@raspberrypii-wt:~/perl-net-sdp# sudo ./Build install
Building Net-SDP
安装完成后,我们开始正式安装shairplay
使用命令
git clone <a href="https://github.com/hendrikw82/shairport.git">https://github.com/hendrikw82/shairport.git</a>
从github下获得源码并编译make即可;
```

make编译

```
root@raspberrypii-wt:~# cd shairport/
root@raspberrypii-wt:~/shairport# make
cc -02 -Wall -c alac.c -o alac.o
cc -02 -Wall -DHAIRTUNES_STANDALONE hairtunes.c alac.o -o hairtunes -lm -lpthr
ead -lssl -lcrypto -lao
```

接下来就是开启airport服务:如下

```
root@raspberrypii-wt:~/shairport# ./shairport.pl -a myairport
Established under name '026CF95A92EC@myairport'
```



可以看到,手机已经找到了airplay业务,播放音乐也正常从耳机端输出; 支持,airplay配置全部完成;