

Ubuntu开发环境搭建

1 编译FFmpeg

2 安装qt-5.12.10

安装QT

如果报错

ubuntu安装qt5 Could not load the Qt platform plugin "xcb" in "" even though it was found.

Ubuntu16.04打开Qt显示/home/user/.config/QtProject/qtcreator/qtversion.xml : Permission denied

3 QT使用FFmpeg

linux_1-ffmpeg

linux_2-sdl

linux_3-ffmpeg-extract-aac

腾讯课堂 零声学院

FFmpeg/WebRTC/RTMP音视频流媒体高级开发 <https://ke.qq.com/course/468797?tuin=137bb271>

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虚拟机版本：VMware 14

Linux版本：Ubuntu 16.04

QT版本：QT-5.12

1 编译FFmpeg

FFmpeg版本：4.2.1

参考《零声学院 音视频高级教程 ubuntu ffmpeg开发环境搭建0.2》





2 安装qt-5.12.10

安装QT

https://blog.csdn.net/lzp_k2/article/details/82662112

下载地址: <https://download.qt.io/archive/qt/>

下载地址: <https://download.qt.io/archive/qt/5.12/5.12.10/>

 qt-opensource-windows-x86-5.12.10.exe		09-Nov-2020 08:13	3.7G	Details
 qt-opensource-mac-x64-5.12.10.dmg	苹果	09-Nov-2020 08:10	2.7G	Details
 qt-opensource-linux-x64-5.12.10.run	Ubuntu	09-Nov-2020 08:07	1.3G	Details
 md5sums.txt		09-Nov-2020 08:16	210	Details

如果报错

```
lqf@ubuntu: ~/qt/Qt5.12.10/Tools/QtCreator/bin
lqf@ubuntu:~/qt/Qt5.12.10/Tools/QtCreator/bin$ ./qtcreator
qt.qpa.plugin: Could not load the Qt platform plugin "xcb" in "" even though it
was found.
This application failed to start because no Qt platform plugin could be initiali
zed. Reinstalling the application may fix this problem.

Available platform plugins are: eglfs, linuxfb, minimal, minimalegl, offscreen,
vnc, xcb.

Aborted (core dumped)
lqf@ubuntu:~/qt/Qt5.12.10/Tools/QtCreator/bin$
```

ubuntu安装qt5 Could not load the Qt platform plugin "xcb" in "" even though it was found.

<https://blog.csdn.net/u012768805/article/details/98756925>

需要安装:

```
sudo apt install --reinstall libxcb-xinerama0
```

Ubuntu16.04打开Qt显

示/home/user/.config/QtProject/qtcreator/qtversion.xml :
Permission denied

权限不够所导致, 执行命令 `sudo chown -R user:user ~/.config/` 即可解决。

默认需要使用sudo权限启动

不是sudo权限也能启动则需要修改权限

语法: `sudo chown -R username:username ~/.config/`

比如我的ubuntu:

```
1 sudo chown -R lqf:lqf ~/.config/
```

3 QT使用FFmpeg

linux_1-ffmpeg

pro文件写法

```
1 TEMPLATE = app
2 CONFIG += console
3 CONFIG -= app_bundle
4 CONFIG -= qt
5
6 SOURCES += \
7     main.c
8 INCLUDEPATH += /home/lqf/ffmpeg_build/include
9
10 LIBS += /home/lqf/ffmpeg_build/lib/libavcodec.a \
11         /home/lqf/ffmpeg_build/lib/libavdevice.a \
12         /home/lqf/ffmpeg_build/lib/libavfilter.a \
13         /home/lqf/ffmpeg_build/lib/libavformat.a \
14         /home/lqf/ffmpeg_build/lib/libavutil.a \
15         /home/lqf/ffmpeg_build/lib/libswresample.a \
16         /home/lqf/ffmpeg_build/lib/libswscale.a
17
```

main.c

```
1 #include <stdio.h>
2
```

```
3 // 包含ffmpeg头文件
4 #include "libavutil/avutil.h"
5
6 int main()
7 {
8     printf("Hello FFMPEG, version is %s\n", av_version_info());
9
10    return 0;
11 }
```

linux_2-sdl

下载地址: <https://www.libsdl.org/download-2.0.php>

1. 下载SDL源码库, SDL2-2.0.10.tar.gz

2. 解压, 然后依次执行命令

./autogen.sh

./configure --prefix=/home/lqf/ffmpeg_build --bindir=/home/lqf/bin

make

sudo make install

linux_2-sdl-basic项目

linux_2-sdl-yuv

linux_3-ffmpeg-extract-aac

重点看

工程的pro文件