

【MAC】 Ncnn 编译so文件方案

1、下载ncnn github地址

是：<https://github.com/Tencent/ncnn>

指定目录：在终端或者git管理工具 输入：

```
git clone https://github.com/Tencent/ncnn.git
```

2、编译Ncnn

2.1 Mac平台 安装cmake、wget（根据实际编译需要）

注：cmake终端安装方式：brew search cmake

```
brew install cmake
```

wget安装方式如上过程。

2.2 进入 ncnn（cd ncnn）然后执行sudo ./build.sh

注：在mac下会出异常（其他平台win或Linux未亲测）也许有些环境可以直接运行，目前使用的是oh-my-zsh 终端环境

接着修改build.sh执行文件

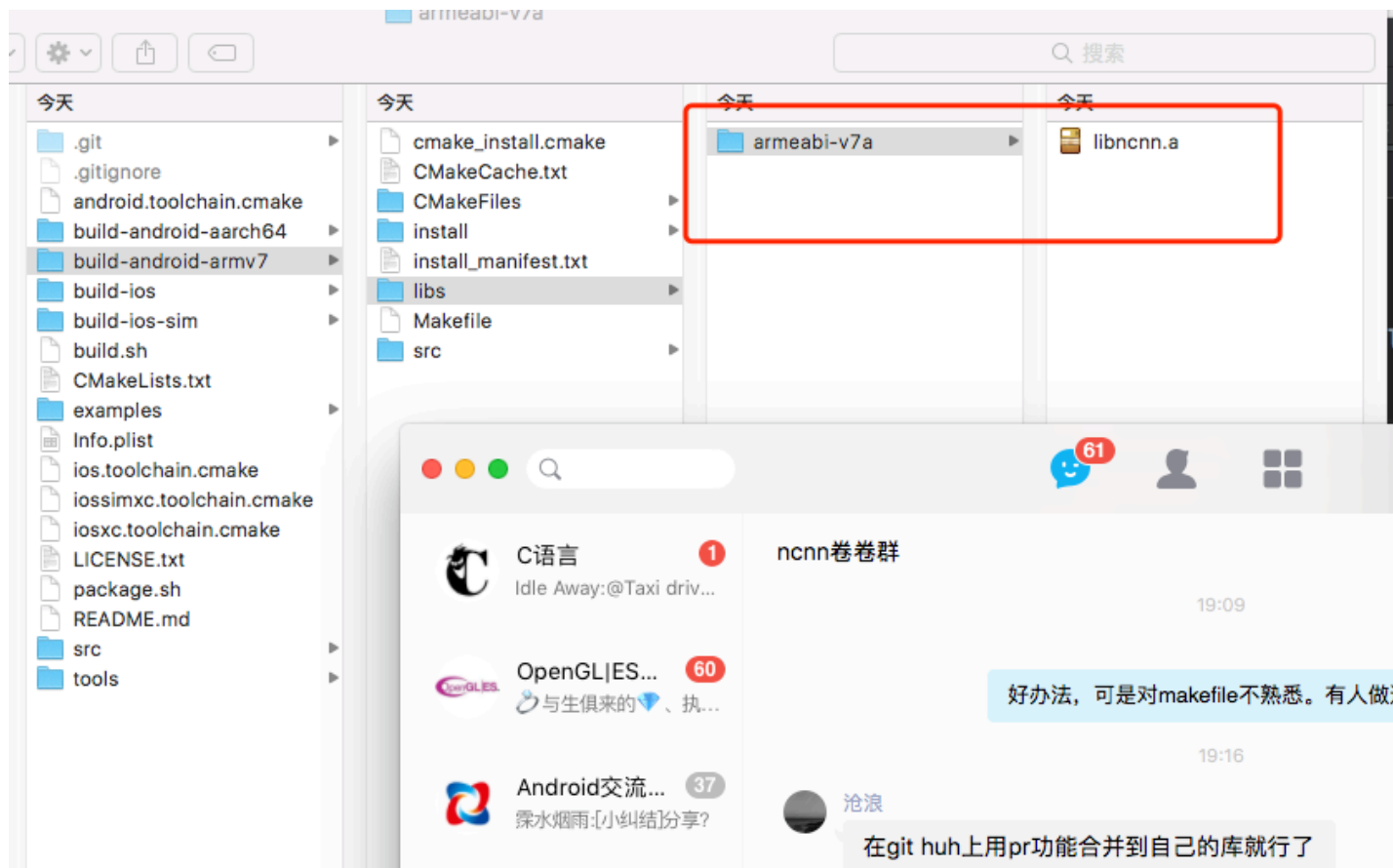
把文件头 `#!/usr/bin/bash`，修改为 `#!/usr/bin/env bash`

然后再执行`sudo ./build.sh`

如果出现 提示 `export ANDROID_NDK=~ / your / ndk / path`

配置自己的ndk路径。安装android studio的朋友可以直接打开AS然后在里面找到ndk路径

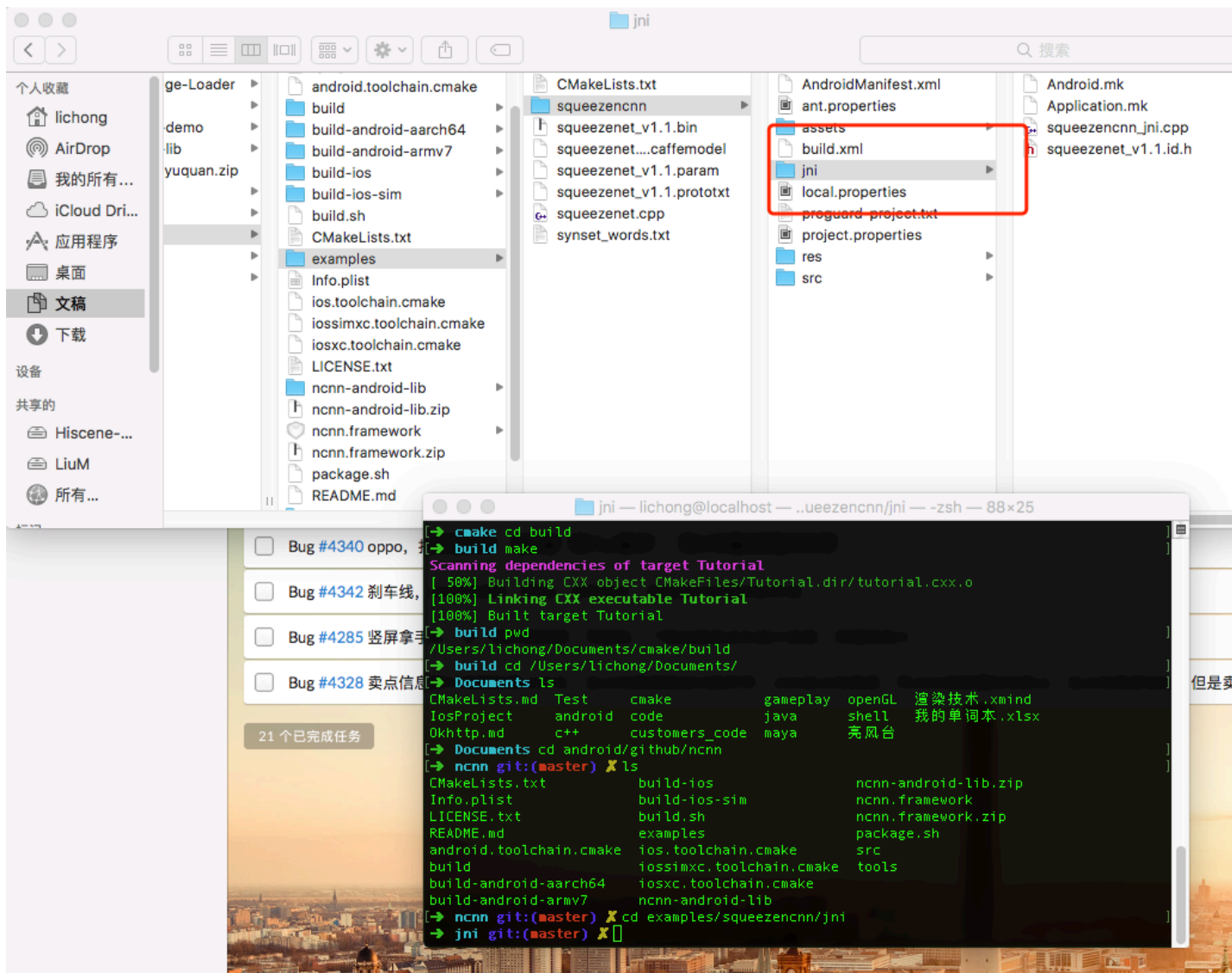
如果没有其他异常提示则运行成功 如下图：



有build-android-armv7文件夹，里面包含了install / lib和include（稍后需要用到）

2.3 编译so的命令ndk-build

jni路径见下图



进入jni路径下

然后在终端输入: `sudo ndk-build`

正常情况下会有如下提示:

```
Android NDK: android-9 is unsupported. Using minimum supported version android-14.
```

```
Android NDK: WARNING: APP_PLATFORM android-14 is higher than android:minSdkVersion 1 in /Users/lichong/Documents/android/github/ncnn/examples/squeezencnn/AndroidManifest.xml. NDK binaries will *not* be compatible with devices older than android-14. See https://android.googlesource.com/platform/ndk/+master/docs/user/common_problems.md for more information.
```

```
Android NDK: ERROR:/Users/lichong/Documents/android/github/ncnn/examples/squeezencnn/jni/Android.mk:ncnn: LOCAL_SRC_FILES points to a missing file
```

```
Android NDK: Check that /home/nihui/dev/qqfacecnn/ncnn/build-android-armv7/install/lib/libncnn.a exists or that its path is correct
```

```
/Users/lichong/Library/Android/sdk/ndk-bundle/build/core/prebuilt-library.mk:45: *** Android NDK: Aborting . Stop.
```

重要的是“LOCAL_SRC_FILES points to a missing file”

根据提示路径可以找到Android.mk文件: 其中有“LOCAL_SRC_FILES := \$(NCNN_INSTALL_PATH)/lib/libncnn.a”

再追述“NCNN_INSTALL_PATH=/home/nihui/dev/qqfacecnn/ncnn/build-android-armv7/install”

这个路径看上去很眼熟。哈哈! 因为这个就是工程的绝对路径。修改ncnn前面的路径“/home/nihui/dev/qqfacecnn/”为~/your/path即可

再次运行ndk-build

会有如下提示:

```
Android NDK: android-9 is unsupported. Using minimum supported version android-14.
```

```
Android NDK: WARNING: APP_PLATFORM android-14 is higher than android:minSdkVersion 1 in /Users/lichong/Documents/android/github/ncnn/examples/squeezencnn/AndroidManifest.xml. NDK binaries will *not* be compatible with devices older than android-14. See https://android.googlesource.com/platform/ndk/+master/docs/user/common_problems.md for more information.
```

```
[armeabi-v7a] Compile++ thumb: squeezencnn <= squeezencnn_jni.cpp
```

```
[armeabi-v7a] SharedLibrary : libsqueezencnn.so
```

```
[armeabi-v7a] Install : libsqueezencnn.so => libs/armeabi-v7a/libsqueezencnn.so
```

如出现以上提示。恭喜你成功编译出so文件!!!