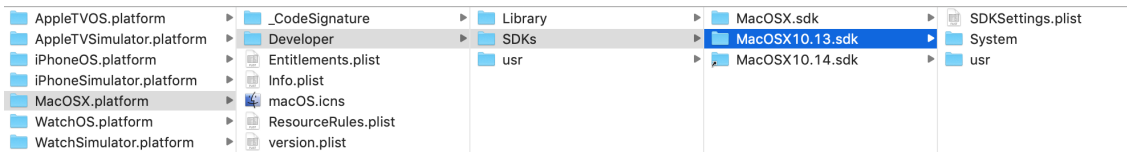


In Xcode10, the i386 architecture is deprecated for macOS, so building the Flutter engine for armv7/armeabi-v7a fails. Specifically, libraries like CoreFoundation contain only code for the x86_64 architecture.

[illegible]

/Applications/Xcode.app/Contents/Developer/Platforms/MacOSX.platform/Developer/SDKs and name the SDK MacOSX10.13.sdk :



To check if the logic is fine, run command below:

```
python your-flutter-engine-path/engine/src/build/mac/find_sdk.py 10.12
```

When `find_sdk.py` return 10.13, the ninja build will succeed for `gen_snapshot` (i386), `Flutter.framework` (ARMv7) and `libflutter.so` (armeabi-v7a).

Build Flutter engine for 32bit iOS simulator on modern Mac(x86_64)

To build the Flutter engine for iOS simulator on a modern Mac(x86_64), the `gn` command will generate a `target_cpu` value with x64. Henceforth, the `Flutter.framework` and `gen_snapshot` will be x86_64. However, sometimes you may want to develop Flutter on a 32bit simulator(like iPhone5), you will need both `Flutter.framework` and `gen_snapshot` to be i386.

Follow instruction below to change the default behavior in `gn` command:

1. Edit your-flutter-engine-path/engine/src/flutter/tools/gn

