如下文档步骤以 OSDK-3.9，ubuntu16.04（DJI Manifold2-G）为例

第一步：下载 osdk-master

git clone https://github.com/dji-sdk/Onboard-SDK.git

```
dji@manifold2:~/project/test$ git clone https://github.com/dji-sdk/Onboard-SDK.git
Cloning into 'Onboard-SDK'...
remote: Enumerating objects: 2536, done.
remote: Counting objects: 100% (2536/2536), done.
remote: Compressing objects: 100% (742/742), done.
remote: Total 11122 (delta 1618), reused 2484 (delta 1601), pack-reused 8586
Receiving objects: 100% (11122/11122), 89.75 MiB | 951.00 KiB/s, done.
Resolving deltas: 100% (6200/6200), done.
Checking connectivity... done.
```

第二步：编译

cd Onboard-SDK/

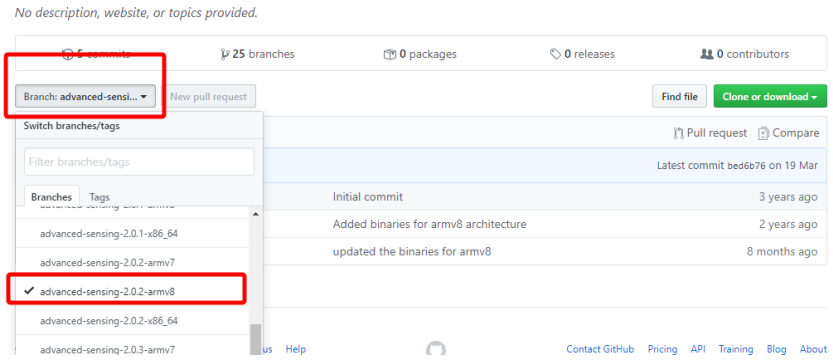
mkdir build

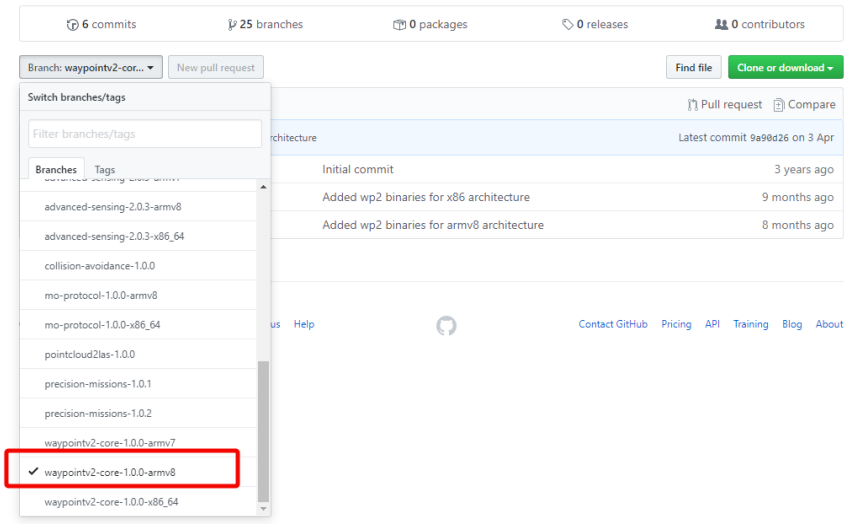
cd build

```
dji@manifold2:~/project/test$ cd Onboard-SDK/
dji@manifold2:~/project/test/Onboard-SDK$ mkdir build
dji@manifold2:~/project/test/Onboard-SDK$ cd build
dji@manifold2:~/project/test/Onboard-SDK/build$ cmake .. -DADVANCED_SENSING=ON -DWAYPT2_CORE=ON
```

到 https://github.com/dji-sdk/Onboard-SDK-Resources/

选择相应平台的 AD 包和 WPv2 包并下载





先将 AD 和 WPv2 存放到 Onboard-SDK/osdk-core 目录下

```
dji@manifold2:~/project/test/Onboard-SDK/osdk-core$ ll
total 9324
drwxrwxr-x 9 dji dji    4096 Nov 25 13:35 ./
drwxrwxr-x 9 dji dji    4096 Nov 25 13:26 ../
drwxrwxr-x 4 dji dji    4096 Nov 25 13:25 api/
-rw-rw-r-- 1 dji dji   11159 Nov 25 13:25 CMakeLists.txt
drwxrwxr-x 3 dji dji    4096 Nov 25 13:27 cmake-modules/
-rw-rw-r-- 1 dji dji     121 Nov 25 13:25 config_example.json
-rw-rw-r-- 1 dji dji      65 Nov 25 13:25 .gitignore
drwxrwxr-x 4 dji dji    4096 Nov 25 13:25 hal/
drwxrwxr-x 4 dji dji    4096 Nov 25 13:25 modules/
-rw-r--r-- 1 dji dji 1576929 Nov 25 13:31 Onboard-SDK-Resources-advanced-sensing-2.0.3-armv8.zip
-rw-r--r-- 1 dji dji 7907551 Nov 25 13:31 Onboard-SDK-Resources-waypointv2-core-1.0.0-armv8.zip
drwxrwxr-x 7 dji dji    4096 Nov 25 13:25 platform/
drwxrwxr-x 4 dji dji    4096 Nov 25 13:25 protocol/
-rw-rw-r-- 1 dji dji     818 Nov 25 13:25 README.md
drwxrwxr-x 4 dji dji    4096 Nov 25 13:25 utility/
```

解压 advanced-sensing-2.0.3

unzip Onboard-SDK-Resources-advanced-sensing-2.0.3-armv8.zip

cd Onboard-SDK-Resources-advanced-sensing-2.0.3-armv8/

tar zxf advanced-sensing-2.0.3.tar.gz

mkdir advanced-sensing-2.0.3

mv inc/ advanced-sensing-2.0.3

mv lib/ advanced-sensing-2.0.3

mv advanced-sensing-2.0.3 ../

cd ../

rm -rf Onboard-SDK-Resources-advanced-sensing-2.0.3-armv8*

解压 AD 包并创建 advanced-sensing-2.0.文件夹包含 inc 和 lib，移动到 osdk-core 目录下

```
dji@manifold2:~/project/test/Onboard-SDK/osdk-core$ ll
total 7796
drwxrwxr-x 12 dji dji    4096 Nov 25 13:44 ./
drwxrwxr-x  9 dji dji    4096 Nov 25 13:26 ../
drwxrwxr-x  4 dji dji    4096 Nov 25 13:39 advanced-sensing-2.0.3/
drwxrwxr-x  4 dji dji    4096 Nov 25 13:25 api/
-rw-rw-r--  1 dji dji   11159 Nov 25 13:25 CMakeLists.txt
drwxrwxr-x  3 dji dji    4096 Nov 25 13:27 cmake-modules/
-rw-rw-r--  1 dji dji     121 Nov 25 13:25 config_example.json
-rw-rw-r--  1 dji dji      65 Nov 25 13:25 .gitignore
drwxrwxr-x  4 dji dji    4096 Nov 25 13:25 hal/
drwxrwxr-x  2 dji dji    4096 Jun  2 07:55 inc/
drwxrwxr-x  2 dji dji    4096 Jun  2 07:55 lib/
drwxrwxr-x  4 dji dji    4096 Nov 25 13:25 modules/
-rw-r--r--  1 dji dji 7907551 Nov 25 13:31 Onboard-SDK-Resources-waypointv2-core-1.0.0-armv8.zip
drwxrwxr-x  7 dji dji    4096 Nov 25 13:25 platform/
drwxrwxr-x  4 dji dji    4096 Nov 25 13:25 protocol/
-rw-rw-r--  1 dji dji     818 Nov 25 13:25 README.md
drwxrwxr-x  4 dji dji    4096 Nov 25 13:25 utility/
```

WPv2 也是类似如上的操作步骤：

unzip Onboard-SDK-Resources-waypointv2-core-1.0.0-armv8.zip

cd Onboard-SDK-Resources-waypointv2-core-1.0.0-armv8/

tar zxf waypointv2-core-1.0.0.tar.gz

mkdir waypointv2-core-1.0.0

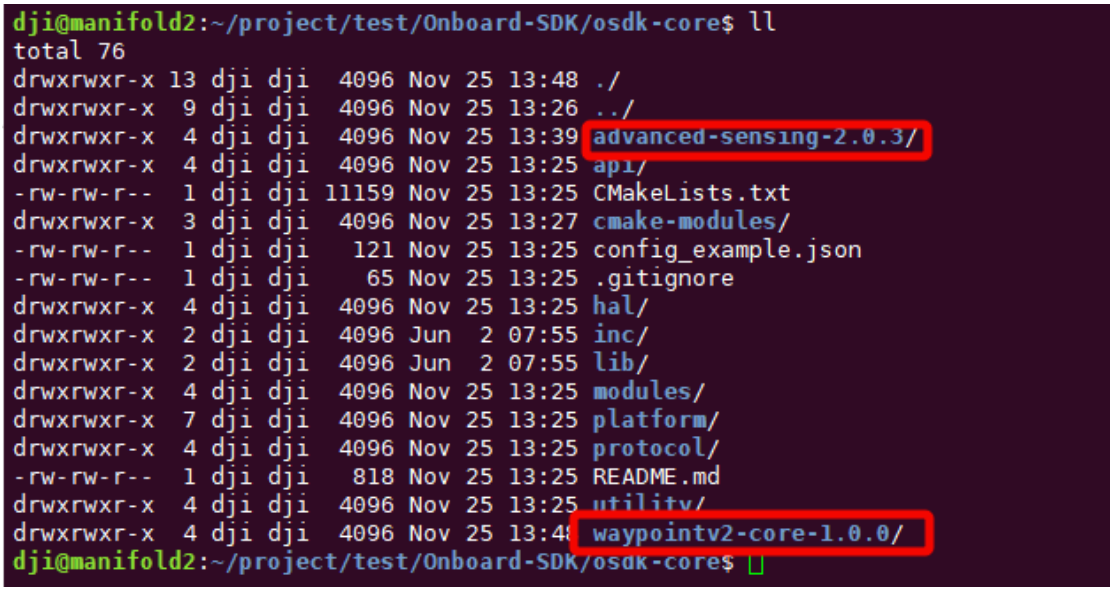
mv inc/ waypointv2-core-1.0.0

mv lib/ waypointv2-core-1.0.0

mv waypointv2-core-1.0.0 ../

cd ../

rm -rf Onboard-SDK-Resources-waypointv2-core-1.0.0-armv8*



最后完成编译

cd ../build

cmake .. -DADVANCED_SENSING=ON -DWAYPT2_CORE=ON

make