提交版本	提交日期	提交人	说明
V0.1	2022年3月26日	黄超	初始验证版本
V0.2	2022年3月27日	黄超	验证官方原版Paddle-Lite demo
V0.3	2022年4月20日	黄超	验证8bit、无双buffer、性能较低版本Paddle-Lite demo
V0.4	2023年3月24日	谢亭亭	验证稠密版本8bit Demo

本文使用的环境为：

操作系统：CentOS7（VMware 16 Pro v16.2.0）

awcloud及root密码均为a

（注：本文流程在Ubuntu16.04/Ubuntu18.04/Ubuntu18.04(wsl2)等环境均通过验证）

CMAKE：v3.10.3

gcc/g++：v7.3.0

交叉编译器：gcc-linaro-5.4.1-2017.05-x86_64_arm-linux-gnueabihf

Paddle-Lite：release/v2.9，commit 25ee87e401f7505a4d45a13e96b786e76f43f46e

PaddleDetection：release/v2.1，commit c37747460e3476c2e841f6cd2502959894a1c22c

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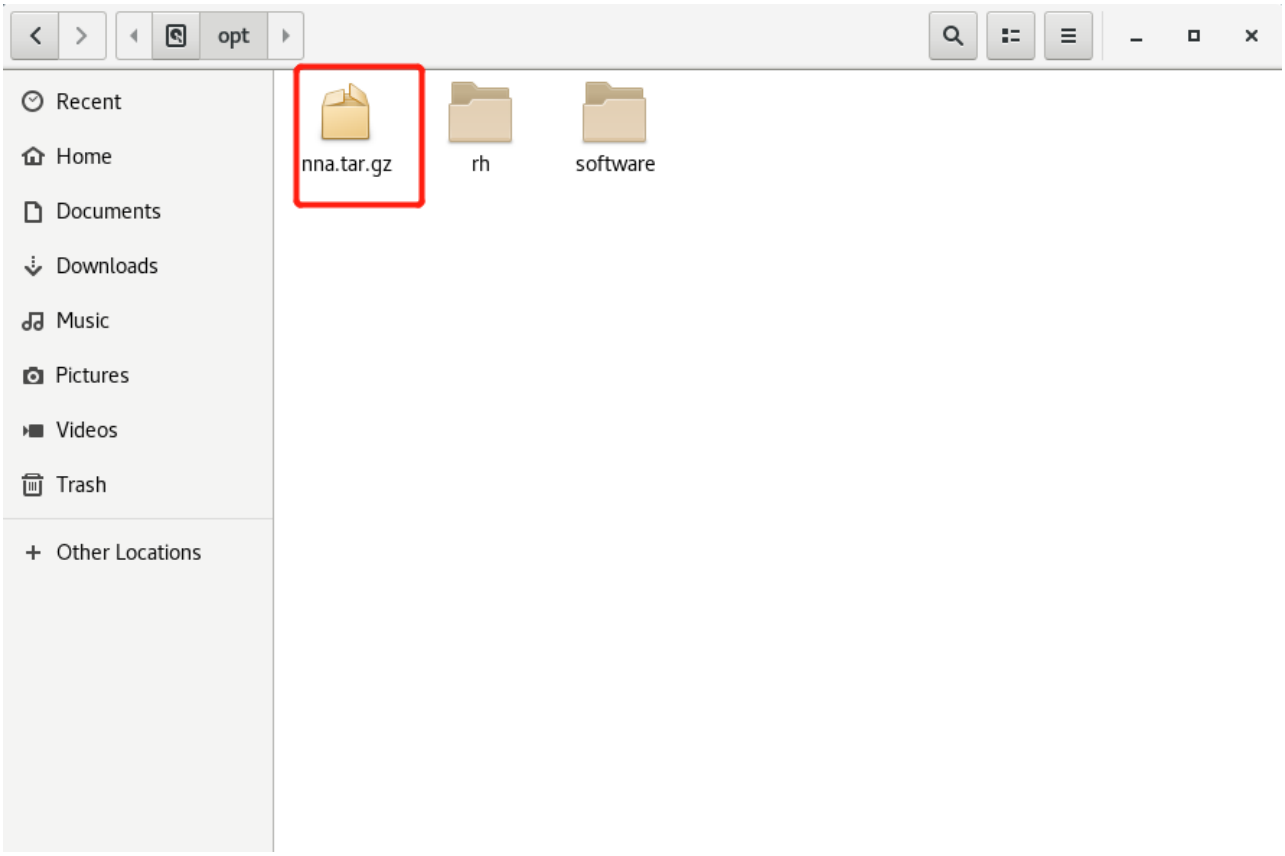
以下正文

下载并上传压缩包到CentOS7

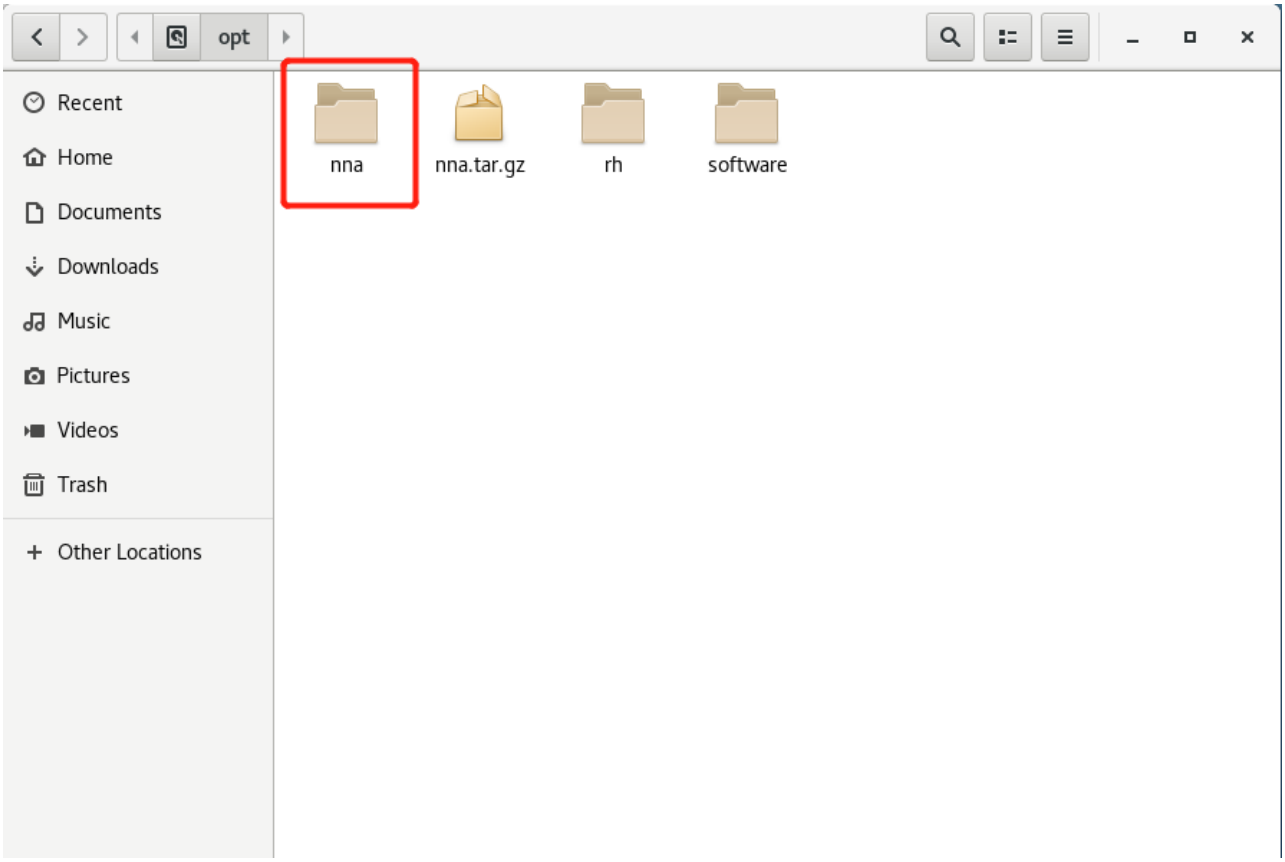
1. 下载Demo压缩包nna.tar.gz

2. 将压缩包上传（或拷贝）到CentOS7的/opt目录下



3. 在CentOS7终端中执行以下指令解压压缩包

```
cd /opt
sudo tar -zxvf nna.tar.gz
```



编译Demo

1. 设置环境变量

```
export PATH=/opt/software/gcc-linaro-5.4.1-2017.05-x86_64_arm-linux-gnueabihf/bin:$PATH
export AIEP_HOST=172.16.78.12
```

上述AIEP_HOST所对应的IP为AIEP软件中左上角所显示的IP地址

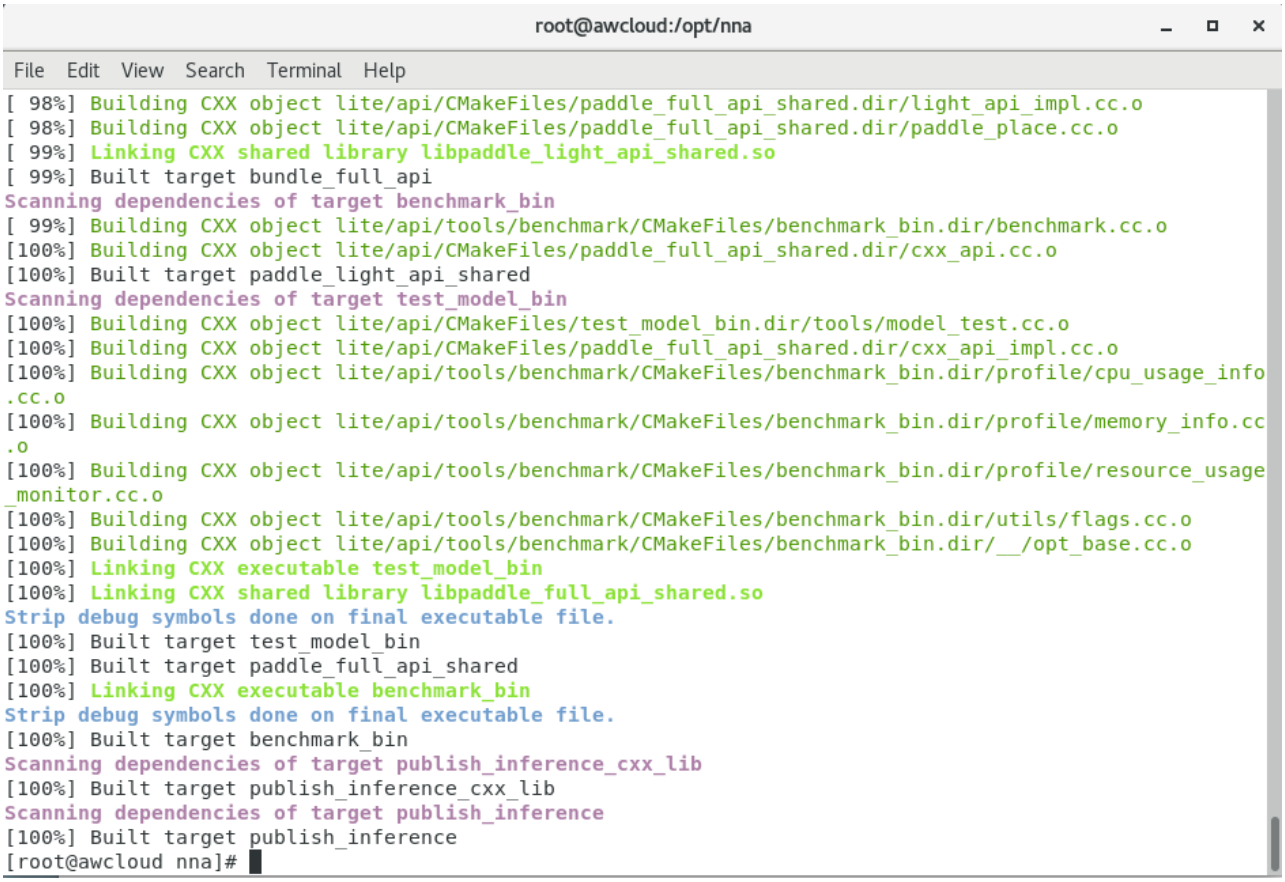
2. 编译Demo

```
cd /opt/nna
sudo ./build.sdk.sh
```

```
[root@awcloud nna]# ./build.sdk.sh
-- The C compiler identification is GNU 5.4.1
-- The CXX compiler identification is GNU 5.4.1
-- Check for working C compiler: /opt/software/gcc-linaro-5.4.1-2017.05-x86_
arm-linux-gnueabihf-gcc
-- Check for working C compiler: /opt/software/gcc-linaro-5.4.1-2017.05-x86_
arm-linux-gnueabihf-gcc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /opt/software/gcc-linaro-5.4.1-2017.05-x8
n/arm-linux-gnueabihf-g++
-- Check for working CXX compiler: /opt/software/gcc-linaro-5.4.1-2017.05-x8
n/arm-linux-gnueabihf-g++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- TARGET ARCH ABI: armv7hf
-- Configuring done
-- Generating done
-- Build files have been written to: /opt/nna/intelfpga_sdk/lib/build
Scanning dependencies of target vnna
[ 50%] Building CXX object CMakeFiles/vnna.dir/intelfpga.cc.o
[100%] Linking CXX shared library libvnna.so
[100%] Built target vnna
```

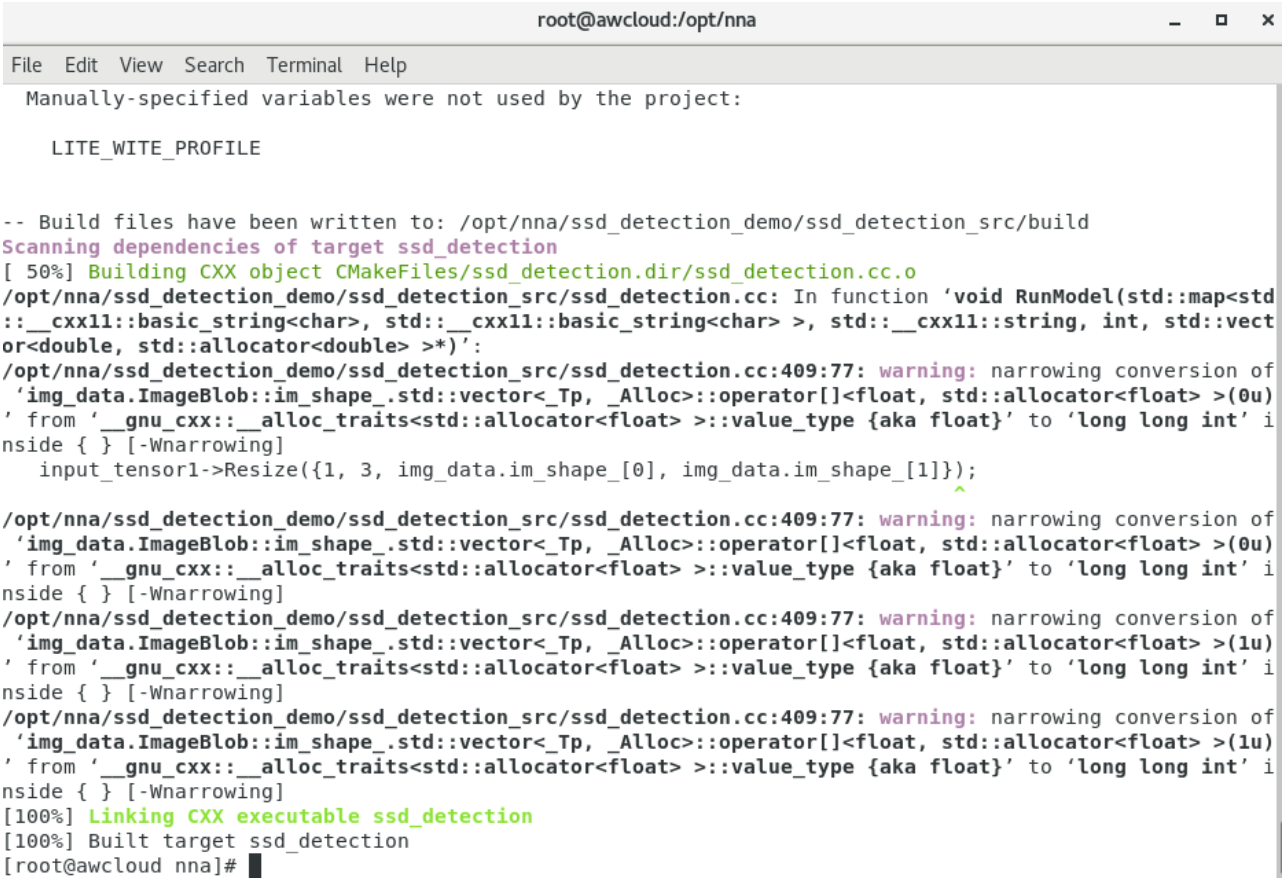
```
cd /opt/nna
sudo  ./build.paddlelite.sh
```

这个过程等待时间大约46-8分钟




```
cd /opt/nna
sudo  ./build.demo.sh

```



上传并验证

请参照《Paddle海云捷迅加速器版框架Demo 8bit量化验证指导书》