## ASG-P环境搭建手册之Carla源代码编译

*备注：可参考：ASG环境搭建手册.docx，第4节*

安装carla工具链，可参见：[carla官网-build linux说明](https://carla.readthedocs.io/en/latest/build_linux/)，以下为官网步骤，供参考：

sudo apt-get update &&

sudo apt-get install wget software-properties-common &&

sudo add-apt-repository ppa:ubuntu-toolchain-r/test &&

wget -O - https://apt.llvm.org/llvm-snapshot.gpg.key|sudo apt-key add - &&

sudo apt-add-repository "deb http://apt.llvm.org/xenial/ llvm-toolchain-xenial-8 main" &&

sudo apt-get update

sudo apt-get install build-essential clang-8 lld-8 g++-7 cmake ninja-build libvulkan1 python python-pip python-dev python3-dev python3-pip libpng-dev libtiff5-dev libjpeg-dev tzdata sed curl unzip autoconf libtool rsync libxml2-dev &&

pip2 install --user setuptools &&

pip3 install --user setuptools

sudo update-alternatives --install /usr/bin/clang++ clang++ /usr/lib/llvm-8/bin/clang++ 180 &&

sudo update-alternatives --install /usr/bin/clang clang /usr/lib/llvm-8/bin/clang 180

安装ad-rss-lib工具链，可参见：[ad-rss-lib官网-build指引](https://intel.github.io/ad-rss-lib/BUILDING/index.html)，以下为官网步骤，供参考：

sudo apt-get install libgtest-dev libpython-dev

sudo apt-get install castxml

pip install --user pygccxml

pip install --user https://bitbucket.org/ompl/pyplusplus/get/1.8.1.zip

安装map工具链，可参见：[map官网-build指引](https://ad-map-access.readthedocs.io/en/latest/BUILDING/index.html)，以下为官网步骤，供参考：

sudo apt-get install libboost-all-dev libpugixml-dev libproj-dev libgtest-dev libpython-dev libosmium2-dev

安装colcon工具：可参见：[colcon官网-安装](https://colcon.readthedocs.io/en/released/user/installation.html)，以下为官网步骤，供参考：

pip install -U colcon-common-extensions

安装其它需要的软件包：

sudo apt-get install libtbb-dev

编译carla-dev所有包，看到success字样说明编译已成功

cd ~/gwork/carla

make setup

结果见图1

make ad-rss

结果见图2

make LibCarla.client.rss

结果见图3

make LibCarla.server

结果见图4

make PythonAPI.rss.3

结果见图5

make CarlaUE4Editor

结果见图6