cartographer_ros 安装

cartographer_ros github 主页：

https://github.com/googlecartographer/cartographer_ros

cartographer_ros 官方安装指引：

https://google-cartographer-ros.readthedocs.io/en/latest/

安装步骤：

 # Install wstool and rosdep.

sudo apt-get update

sudo apt-get install -y python-wstool python-rosdep ninja-build

 # Create a new workspace in 'catkin_ws'.

mkdir catkin_ws （这里建议换一个名字，叫 cartographer 就行，这个工作空间专用于 cartographer）

cd catkin_ws

wstool init src

 # Merge the cartographer_ros.rosinstall file and fetch code for dependencies.

wstool merge -t src

https://raw.githubusercontent.com/googlecartographer/cartographer_ros/master/cartographer_ros.rosinstall

wstool update -t src

这一步会报一个 ceres-solver failed 的错误，需要修改一个网址

#进入到 src 文件夹后 ctrl+h 显示出隐藏文件，打开.rosinstall

#更改 ceres-solver 中地址改为下面的地址：

#>>uri: https://github.com/ceres-solver/ceres-solver.git

 # Install proto3.

src/cartographer/scripts/install_proto3.sh　(失败试一下前面加 sudo)

 # Install deb dependencies.

 # The command 'sudo rosdep init' will print an error if you have already

 # executed it since installing ROS. This error can be ignored.

sudo rosdep init

rosdep update

rosdep install --from-paths src --ignore-src --rosdistro=${ROS_DISTRO} –y

(根据自己版本将${ROS_DISTRO } 替换为 kinetic 或者 indigo)

 # Build and install.

catkin_make_isolated --install --use-ninja【此步编译成功 代表安装成功】

运行官方数据集 - Revo LDS 机器人:

1. 下载数据集

 wget -P ~/Downloads https://storage.googleapis.com/cartographer-

public-data/bags/revo_lds/cartographer_paper_revo_lds.bag

2. 运行数据集

**roslaunch cartographer_ros demo_revo_lds.launch **

bag_filename:=${HOME}/Downloads/cartographer_paper_revo_lds.bag