构建地图,启动 rviz 进行地图查看并保存

AI航团队

1. 构建地图

打开命令终端窗口,输入如下命令行:启动上位机和 stm32board 串口节点

roslaunch qingzhou_nav qingzhou_bringup.launch

```
Learningx@learningx:~$ roslaunch qingzhou_navqingzhou_bringup.launch-
.. logging to /home/learningx/.ros/log/5eb69cbc-ca71-11ea-8cec-d2a80376fa79/ros
launch-learningx-19650.log
Thecking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
one checking log file disk usage. Usage is <1GB.
started roslaunch server http://learningx:35261/
SUMMARY
======
 //apply_calib/calib_file:/home/learningx/n...
  /apply_calib/calibrate_gyros: True
 /bdebug: 1
* /calibrate_angularSpeed: 0
* /calibrate_lineSpeed: 0
* /cloudsendrate: 10
 * /imu_filter_madgwick/fixed_frame: odom
* /imu_filter_madgwick/publish_tf: False
* /imu_filter_madgwick/use_mag: False
  /imu_filter_madgwick/use_magnetic_field_msg: True
/imu_filter_madgwick/world_frame: enu
```

之后,重新打开命令终端,输入如下指令,启动建图节点:

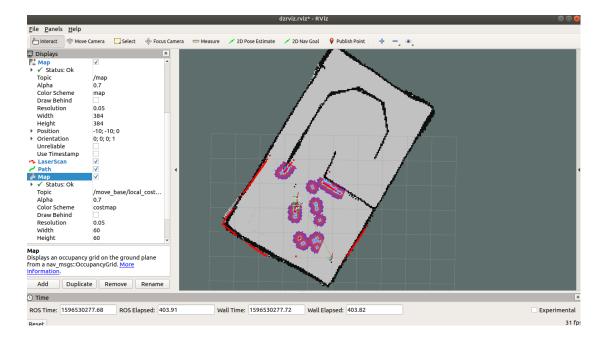
roslaunch qingzhou_nav qingzhou_hdmap.launch

```
learningx@learningx:~$ roslaunch qingzhou_nav qingzhou_hdmap.launch
... logging to /home/learningx/.ros/log/5eb69cbc-ca71-11ea-8cec-d2a80376fa79/ros
launch-learningx-19813.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
started roslaunch server http://learningx:36345/
SUMMARY
PARAMETERS
 * /rosdistro: melodic
   /rosversion: 1.14.6
  /slam_gmapping/angularUpdate: 0.5
  /slam_gmapping/astep: 0.05
  /slam_gmapping/base_frame: /base_link
  /slam_gmapping/delta: 0.05
  /slam_gmapping/iterations: 5
/slam_gmapping/kernelSize: 1
  /slam_gmapping/lasamplerange: 0.005
   /slam_gmapping/lasamplestep: 0.005
   /slam gmapping/linearUpdate: 1.0
```

此时,激光雷达启动,下位机 stm32board 开始给上位机上传指令,打开新的终端,输入如下指令:

```
rviz
```

打开 rviz,在 file 里面勾选 file config,打开 qingzhou_ws/src/qinzhou_nav/rviz 文件夹下 gmapping.rviz 文件,可以对所建地图进行观察。



2. 构建地图

建好地图后,对建好的地图进行保存,打开

如下图所示:

