PolyVerif User Guide

Follow the below steps to use PolyVerif Framework

In order to configure and run the PolyVerif Pipelines,please clone PolyVerif workspace in home dir using below link.

git clone --branch PolyVerif-AWSIM --single-branch https://github.com/MaheshM99/PolyVerif.git

Once PolyVerif directory created then clone AWSIM binary in PolyVerif dir using below link.

https://drive.google.com/drive/folders/1a1kA9CD30_pXpm-4AeEP2s2z4QrhCqxJ?usp=drive_link

1.Open a new terminal, change dir to PolyVerif and launch AWSIM and autoware using below cmd's

```
$ cd PolyVerif

$ ./launch
```

2.Wait for while to launch awsim and autoware,once launched you can observe all necessary component get initialized in both simulator and rviz (map,ego,ego position,sensor etc).
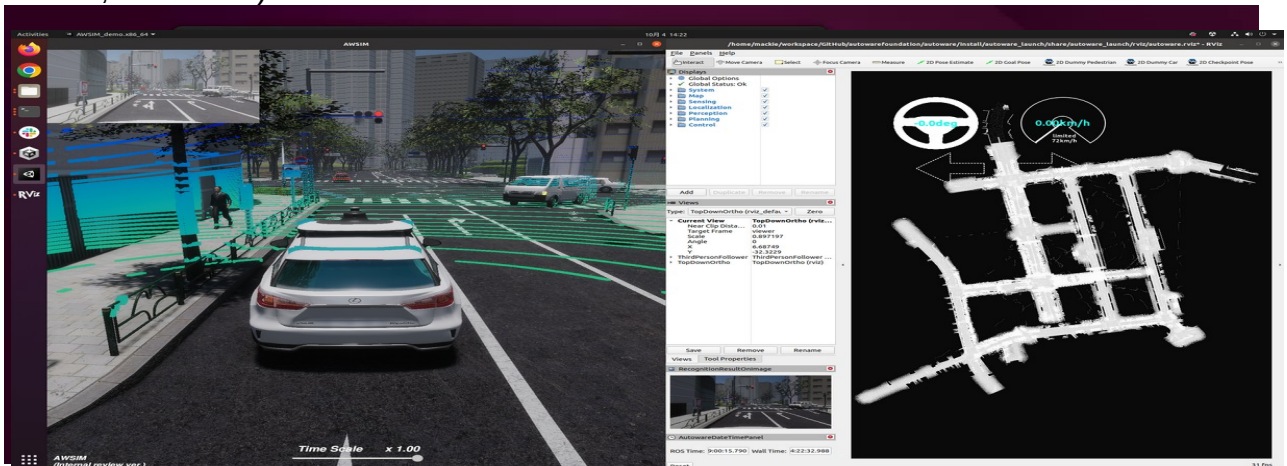
3.The Autoware will automatically set it's pose estimation as presented below.
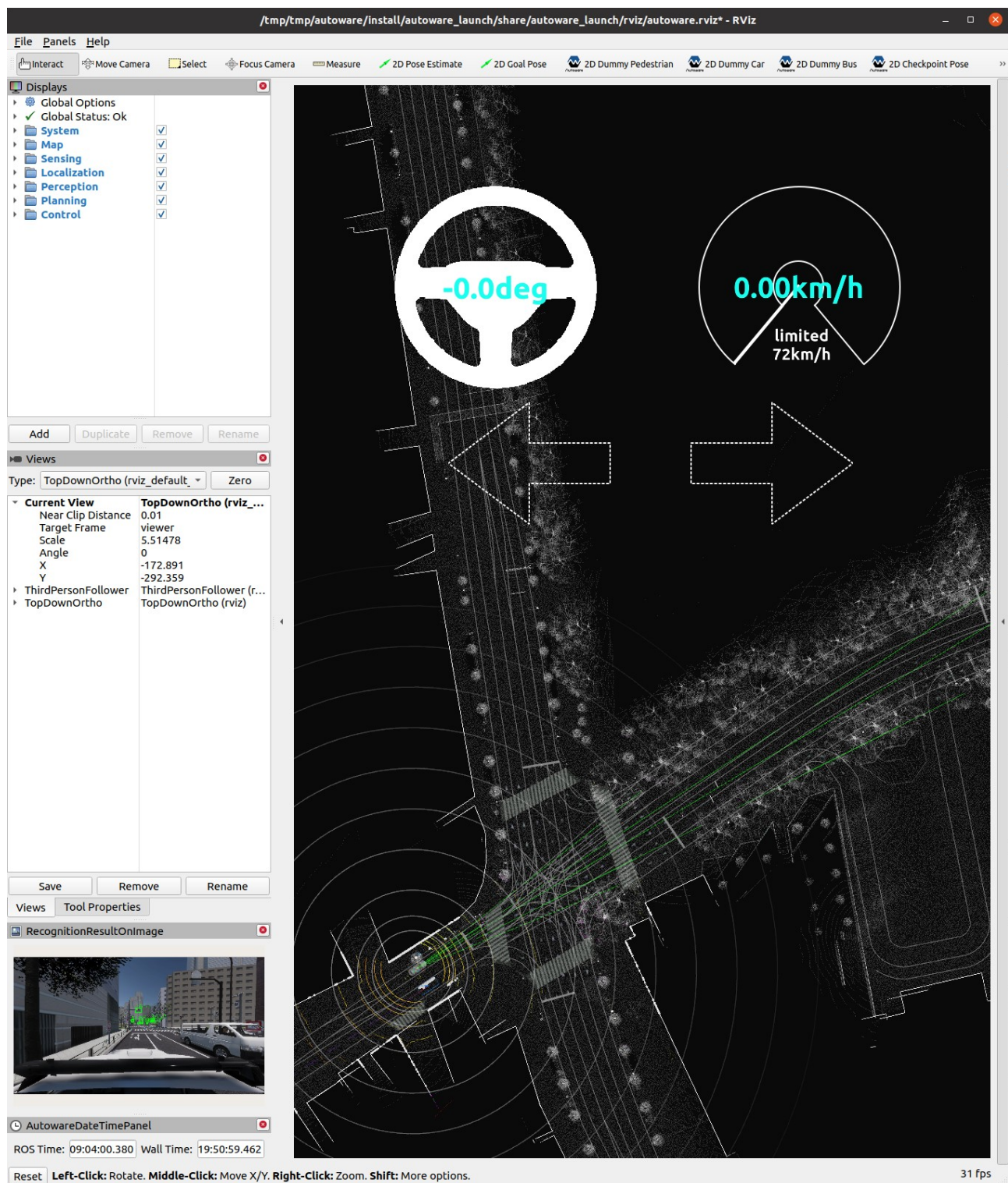
If ego position not initializing properly then you can set ego position using **2D pose estimate** button and drag arrow on map.
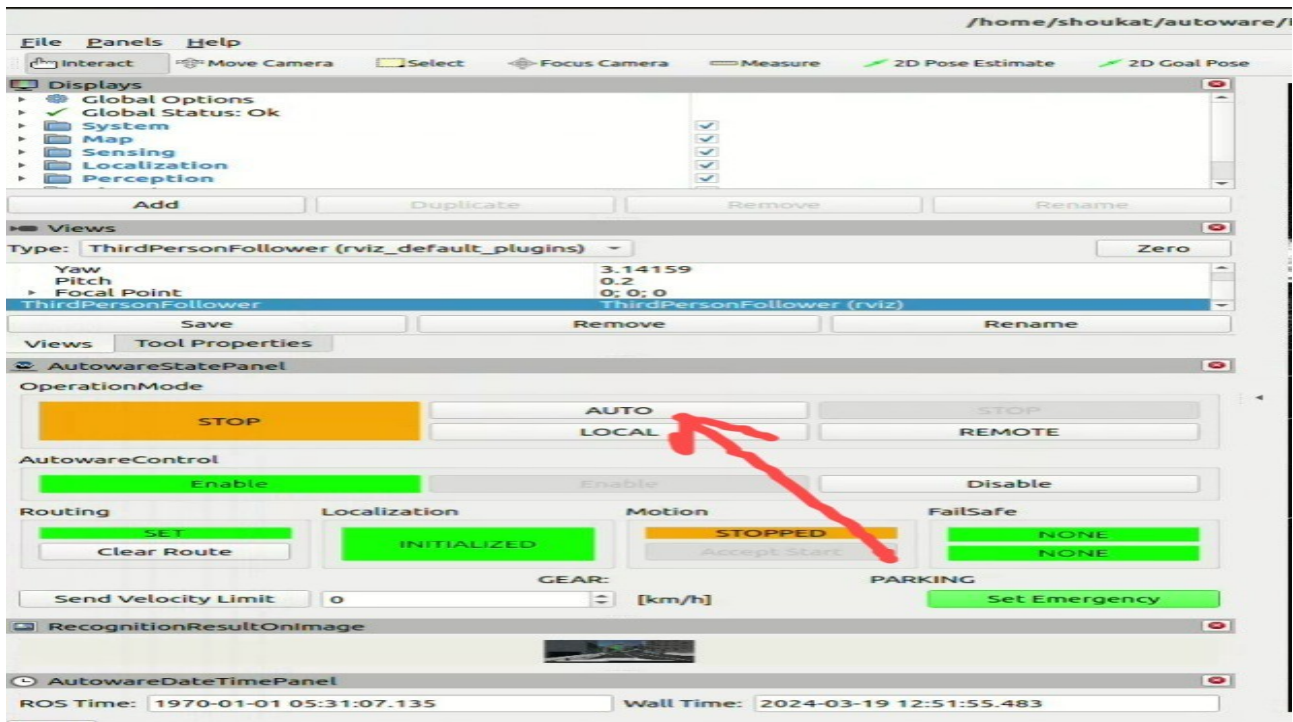
4. Open a new terminal change PolyVerif dir and start detection node using below cmd.

```
$ cd PolyVerif

$ ./nodeStartDetection.sh
```

5.Once DetectionNode started then start scenario by clicking on button **AUTO** on AutowareStatePanel and scenario get started.
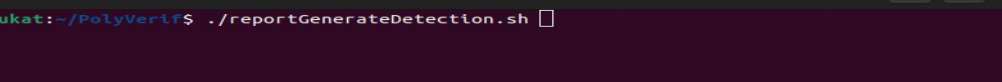

Let complete the scenario as shown below images

6.Once execution of scenario get complete then stop detection node by executing stopNode script in new terminal as shown below.

7.To generate reports run the report generation script using cmd $ ./reportGenerateDetection.sh

7.Find the generated reports in dir path as shown below
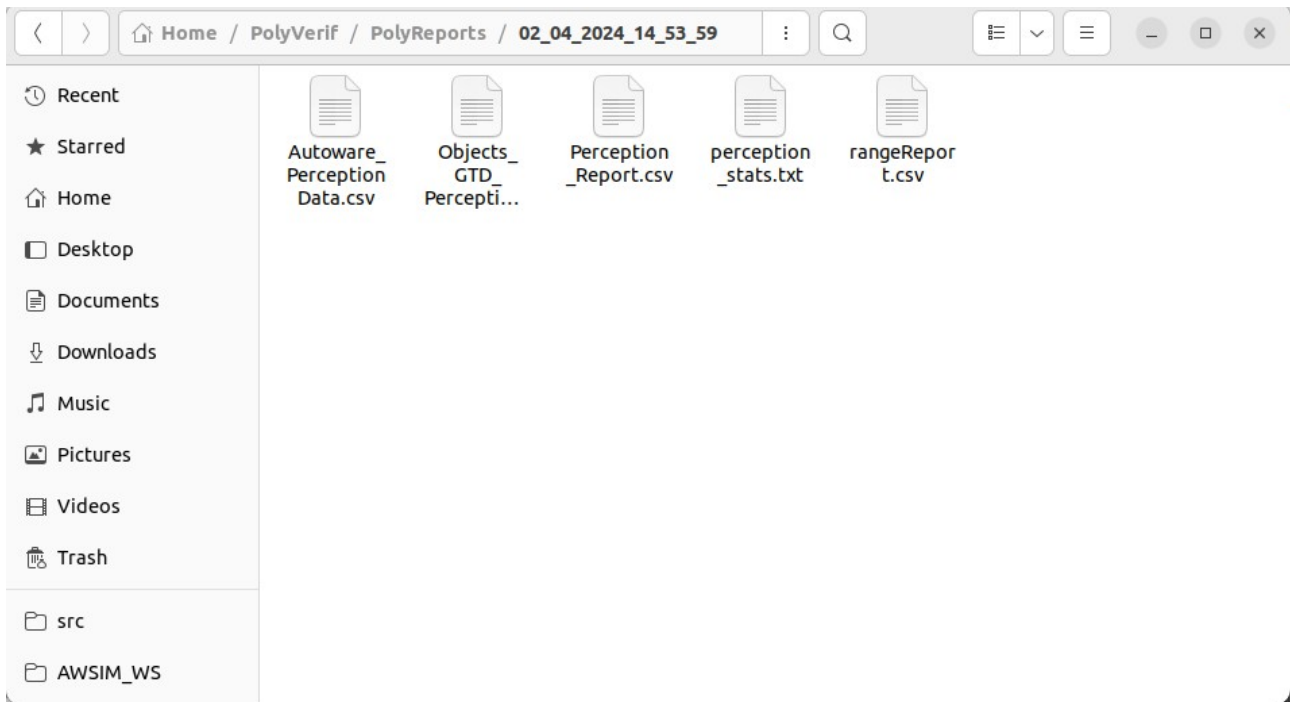
8. To Stop workspace using $ ./WS_stop as shown below.
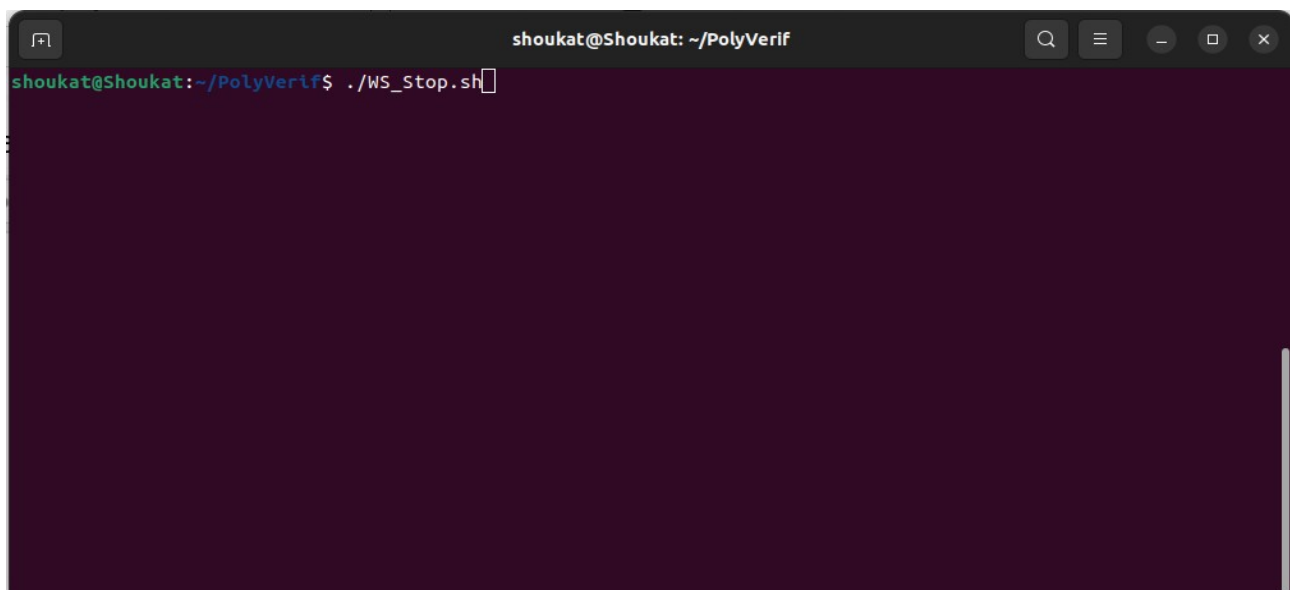
9. From above steps DetectionNode pipeline completed and for other pipelines follow same steps as earlier performed.