

Planning Simulator TF2 Issues #2541

✓ Answered by TakaHoribe
 Denri006 asked this question in Q&A

Category



Labels

None yet

3 participants



Denri006 on Apr 20, 2022

Hi everyone. I followed this guide to set up Autoware Universe:

<https://autowarefoundation.github.io/autoware-documentation/main/installation/autoware/source-installation/>

I used the ansible script to install dependencies after manually installing ros-galactic and Autoware was able to compile (with 1 modification, but that issue will be posted about in another Q&A discussion).

and this guide to run the planning simulator:

<https://autowarefoundation.github.io/autoware-documentation/main/tutorials/ad-hoc-simulation/planning-simulation/>

When running the following commands,

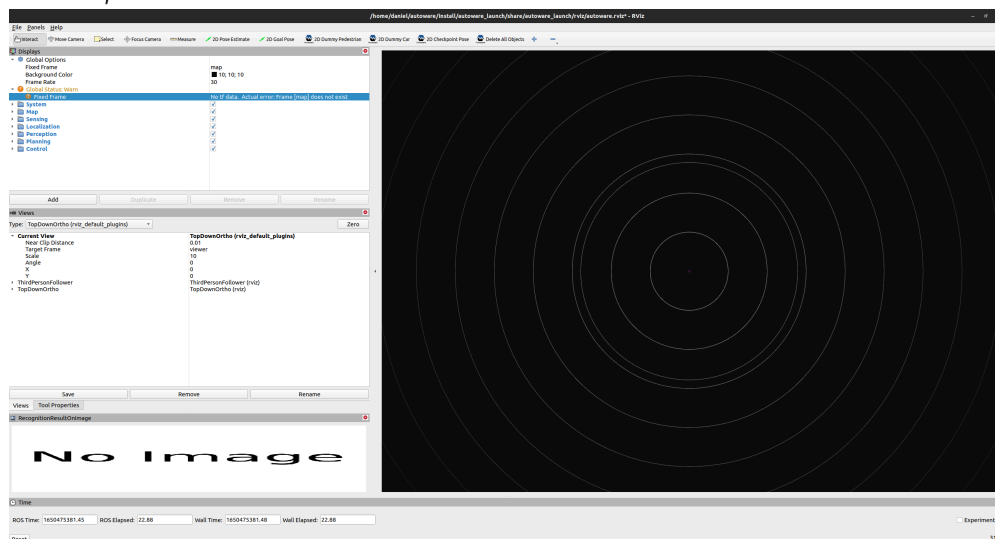
```
source ~/autoware/install/setup.bash
ros2 launch autoware_launch planning_simulator.launch.xml
map_path:=$HOME/Downloads/sample-map-planning
vehicle_model:=sample_vehicle sensor_model:=sample_sensor_kit
```



I expected the simulation to work as it was shown in this video:

<https://youtu.be/iW-a7cKUxuY?t=340>

Instead, I was met with this:



and my terminal was flooded with these TF2 warnings:

```
[awapi_awiv_adapter-22] [INFO] [1650475409.009679485]
[awapi.awapi_awiv_adapter_node]: waiting for node:
/planning/scenario_planning/motion_velocity_smoother, param:
max_velocity
[awapi_awiv_adapter-22]
```



```
[rviz2-20] Warning: Invalid frame ID "map" passed to canTransform
argument target_frame - frame does not exist
[rviz2-20]          at line 156 in /tmp/binarydeb/ros-galactic-
tf2-0.17.2/src/buffer_core.cpp
[rviz2-20] Warning: Invalid frame ID "map" passed to canTransform
argument target_frame - frame does not exist
[rviz2-20]          at line 156 in /tmp/binarydeb/ros-galactic-
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[rviz2-20]          at line 156 in /tmp/binarydeb/ros-galactic-
tf2-0.17.2/src/buffer_core.cpp
[system_error_monitor-5] [WARN] [1650475409.221470751]
[system.system_error_monitor]: input data is timeout
```

The launch log is attached below

[launch.log](#)

The terminal output is logged here:

[stdoutlog.log](#)

My environment:

Ubuntu 20.04.4

Kernel 5.13.0-40-generic [#45](#)~20.04.1-Ubuntu

Xeon E5-1650V4

64GB Ram

Nvidia Geforce GTX 1080ti (510.60.02 driver and cuda 11.4)

Python 3.8.10

GCC 8.4.0 (downgraded from default 9.4.0 to allow tensorrt_yolo to compile)

I have confirmed that my map path is correct, so that is not the issue.

I can also reproduce the errors by following the steps in the guides above.

↑ 1



Answered by **TakaHoribe** on Apr 21, 2022

Not sure, but I had a similar issue before. In that time, the map loading takes a very long time due to a low ros2 DDS performance.

I could solve it by DDS tuning following this tutorial.

<https://docs.ros.org/en/rolling/How-To-Guides/DDS-tuning.html>

[View full answer](#) ↓

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kenji-miyake on Apr 20, 2022

[@Denri006](#) It seems the map isn't loaded for some reason.

If there is no message like `Could not find lanelet map under {path-to-map-dir}/lanelet2_map.osm` in the log, I guess it's because of the DDS settings?

Could you tell me the result of this command? By default, it's empty.

```
echo $RMW_IMPLEMENTATION
```



↑ 1

1 reply



Denri006 on Apr 21, 2022 Author

This is the result of that command:

```
rmw_cyclonedds_cpp
```



TakaHoribe on Apr 21, 2022 Maintainer

Not sure, but I had a similar issue before. In that time, the map loading takes a very long time due to a low ros2 DDS performance.

I could solve it by DDS tuning following this tutorial.

<https://docs.ros.org/en/rolling/How-To-Guides/DDS-tuning.html>

I also applied the localhost_only option for the ros communication.

What I did is below, just in case.

```
$ echo $RMW_IMPLEMENTATION // this command returns  
"rmw_cyclonedds_cpp"
```



and add this in `/etc/sysctl.conf`,

```
net.ipv4.ipfrag_time=3  
net.ipv4.ipfrag_high_thresh=134217728  
net.core.rmem_max=2147483647  
net.core.rmem_default=8388608
```



then, enable localhost_only

```
$ export ROS_LOCALHOST_ONLY=1  
$ sudo ifconfig lo multicast
```



Marked as answer



4



4



1

2 replies

Denri006 on Apr 21, 2022 Author

This fixed it for me. Thanks SO much for your help.



1

kenji-miyake on Jun 12, 2022

An alternative command that uses `ip` instead of `ifconfig`.

```
sudo ip link set multicast on lo
```



Answer selected by **Denri006**