

feat(autoware.repos): change vls driver to nebula driver #3699

New issue

Merged

mitsudome-r merged 1 commit into autowarefoundation:main from drwnz:feat/nebula on Aug 2, 2023

Conversation 2 Commits 1 Checks 25 Files changed



drwnz commented on Jul 30, 2023 • edited

Contributor

Description

This PR should be tested in conjunction with [autowarefoundation/sample_sensor_kit_launch#64](#)

This PR changes the LiDAR driver used from `velodyne_vls` to `Nebula`.

Nebula is actively maintained, supports more different LiDARs, and has been tested to have feature parity with `velodyne_vls` for Velodyne VLP16 and Velodyne VLS128.

Tests performed

This has been tested with the Autoware `sample_sensor_kit_launch` on branch `feat/nebula` and the sample Autoware map and rosbag data found here: <https://autowarefoundation.github.io/autoware-documentation/main/tutorials/ad-hoc-simulation/rosbag-replay-simulation/>

Localization, pointcloud preprocessing, and perception were all found to work with the same performance as with the previous `velodyne_vls` driver.

Effects on system behavior

System behavior should be the same as when using the previous `velodyne_vls` LiDAR driver, with some performance benefits (and more to come as Nebula is developed and optimized).

Reviewers

	mitsudome-r	✓
	yukkysaito	✓
	amc-nu	
	xmfcx	

Assignees

No one assigned

Labels

component:sensing type:new-feature

Projects

None yet

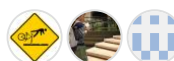
Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

3 participants



Pre-review checklist for the PR author

The PR author **must** check the checkboxes below when creating the PR.

- ☒ I've confirmed the [contribution guidelines](#).
- ☒ The PR follows the [pull request guidelines](#).

In-review checklist for the PR reviewers

The PR reviewers **must** check the checkboxes below before approval.

- ☐ The PR follows the [pull request guidelines](#).

Post-review checklist for the PR author

The PR author **must** check the checkboxes below before merging.

- ☐ There are no open discussions or they are tracked via tickets.

After all checkboxes are checked, anyone who has write access can merge the PR.



feat(autoware.repos): 00222db
change vls driver to
nebula driver ...

drwnz requested review from **amc-nu**, **yukkysaito**,
xmfcx and **mitsudome-r** last year

drwnz mentioned this pull request on Jul 30, 2023

**feat: change from velodyne_vls to
nebula driver**

Merged

autowarefoundation/sample_sensor_ki
t_launch#64

4 tasks



mitsudome-r approved these
changes on Jul 31, 2023

[View reviewed changes](#)

mitsudome-r left a comment

Member

lgtn



yukkysaito approved these changes on Jul 31, 2023

[View reviewed changes](#)

yukkysaito left a comment

Contributor

LGTM



drwnz added **type:new-feature** **component:sensing** labels on Jul 31, 2023



drwnz mentioned this pull request on Jul 31, 2023

feat: nebula for aip launcher
tier4/aip_launcher#157

[Merged](#)



mitsudome-r merged commit **1fce19b** into **autowarefoundation:main**
on Aug 2, 2023
24 checks passed

[View details](#)



drwnz deleted the **feat/nebula** branch last year



tier4-autoware-public-bot **bot** mentioned this pull request on Aug 2, 2023

chore: sync upstream tier4/autoware#5

[Open](#)



drwnz mentioned this pull request on Aug 9, 2023

docs(reference-hw): add nebula
autowarefoundation/autoware-
documentation#432

[Merged](#)

4 tasks