

Autonomy Software WG Meeting 2022/05/24 #2608

BonoloAWF started this conversation in **Working group meetings**



BonoloAWF on May 18, 2022

edited ▾

Administrative

- [Previous Meeting Minutes](#)

Attendees

► Chaired by Ryohsuke

Common Resources

- Bus ODD [software architecture proposal](#)
- Bus ODD [architecture design discussions](#)
- Bus ODD [candidate simulator comparisons](#)
- Bus ODD [milestone development plan](#)
- Autware [contributors list](#)

Announcements

Autware.Auto

- ☐ Updates on [bug fixes](#) and [documentation bugs](#)
- ☐ Release of Autware.Auto v2.0.0

Autware.Universe

- ☒ Bus [ODD issues](#)
- ☒ Autware.Universe reported [bugs](#)
- ☒ Autware [design discussions](#) and [demos](#)

Discussion topics

Proposed by Bonolo:

- Bottlenecks in the performance of the Autware NDT localiser were identified in

Category



Working group meetings

Labels

meeting:software-wg

1 participant



Ryohsuke - The authors should check whether the [OpenMP implementation](#) satisfies their requirements. I think we would like to have similar test on different platforms (e.g. Nvidia Jetson) as a reference.

Related issue: [autwarefoundation/autware.universe#602](#)

Action Items

- ☐ [@xmfcx](#) to create an issue to test the existing lidar-only perception pipeline with the data provided ☒ [Collect raw sensor data to test sensor drivers](#) [autware.universe#562](#) (comment)
- ☐ [@hatem-darweesh](#) to prepare presentation slide about OpenPlanner for the next ASWG call
- ☐ [@mitsudome-r](#) to propose to ODD WG about adding parking scenario for Bus use cases if it is included in ITRI's course.

Review of Issues and Discussions

The following Discussions and Issues were highlighted:

- ☒ [Use crosswalk traffic light signal in behavior planning module](#) [autware.universe#937](#) - improves decision making by adding traffic light signals, check the PR for algorithm implementation details
- ☒ [Run Lidar Centerpoint with TVM](#) [autware.universe#908](#) - Esteve is working on TVM integration. We need assistance, writing the library. from engineers who are familiar with both TensorRT and TVM
- ☒ [Goal pose is not aligned to the map](#) [autware.universe#711](#) - in progress
- ☒ [Add another crop_box_filter node](#) [autware.universe#703](#) - node was transferred from Autware.Auto, waiting for review
- ☒ [Collect rosbag of sensor data for camera](#) [autware.universe#680](#) - will be followed up at the on-vehicle testing meeting next week
- ☒ [Implement any missing calibration tools](#) [autware.universe#679](#) - the tools available for calibration should be added to the docs
- ☒ [Add YOLO Custom Dataset Handler](#) [autware.universe#610](#) - Fatih will create the repo
- ☒ [Add TVM inference capability](#) [autware.universe#628](#) - related to ☒ [Run Lidar Centerpoint with TVM](#) [autware.universe#908](#)
- ☒ [Evaluate performance of localization pipeline](#) [autware.universe#602](#) - pointcloud map was created from KITTI dataset, issues with the converted rosbag were noted
- ☒ [Evaluate performance of object detection pipeline](#) [autware.universe#565](#) - PR waiting for review, more metrics should be integrated in future
- ☒ [Unreasonable freespace planning area in parking scenario](#) [autware.universe#947](#) - needs further investigation
- ☒ [Show UVC camera ID](#) [#313](#) - we are open to supporting new camera hardware

0 comments