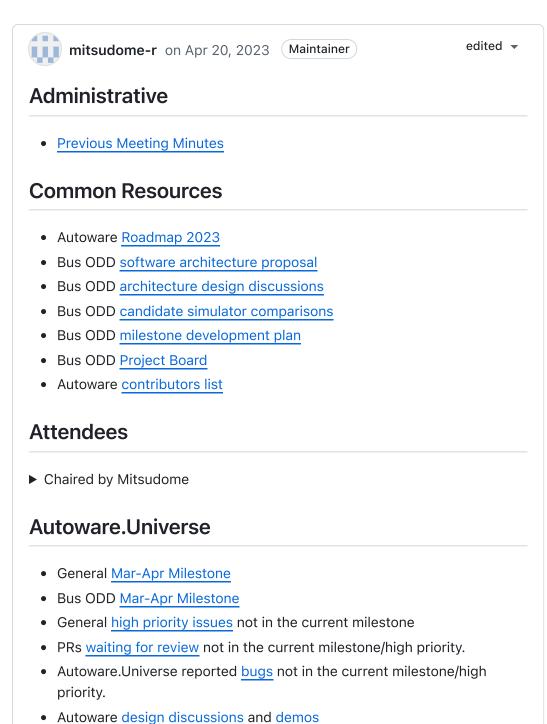


Software WG Meeting 2023/04/25 #3444

mitsudome-r started this conversation in Working group meetings



Category Working group meetings Labels meeting:software-wg 2 participants

Discussions

Announcements

Updates from developers

ITRI Bus Integration Updates

Skipping since no ITRI members joined the call.

Other Discussion Topics

Adapt Autoware.universe for our PIXKIT vehicle (Alex)

PIX Moving would like to present their work with their effort to adapt Autoware.universe for PIXKIT vehicle, including ROS2 drivers for the vehicle, 4-wheel steering, documentation and others. This vehicle and the implemented software will be presented at the Autoware tutorial at IEEE MOST conference in Detroit.

PIX Moving also has some questions regarding Autoware.universe performance.

Mark's presentation: To be posted

- Videos will be shared in different conferences including IEEE MOST
 - If anyone has demo video to that they would like to see in conference (e.g., new use cases), please contact Alex.
 - David: possibly docking video that was shared in ODD WG?
 - Mark: that wasn't using Autoware.Universe
- · Mark to post issues to Discussions after the call
- Possible solution maybe to:
 - Check build options
 - modify DDS configuration
 - convert nodes to components and use container for better communication efficiency
- Bonolo: PIX can update FTE activity report for April report with this content

Adding "local" coordinate option to Lanelet2 map loader

#3427

Currently, Lanelet2 map loader supports "MGRS" and "UTM", but they maybe overridden with "local_x/local_y" tags in lanelet2 map.

The PRs in the issue will add new option "local" so that users have to explicitly select "local" coordinate to use the tag.

Autoware Enhancement Project

- Fatih created the project for Autoware Enhancement: https://github.com/orgs/autowarefoundation/projects/21
- We would like to sync on the scope of the Project board and how it should be maintained.

Distribution of new tasks

Action Items

- Developers to add their discussion items to the agenda for the next meeting
- Developers to share updates on their works in the next meeting



3 comments · 1 reply

Oldest

Newest



ahuazuipiaoliang on Apr 27, 2023 (Collaborator)

Issue that Pixmoving meets

autowarefoundation/autoware.universe#3568 autowarefoundation/autoware.universe#3569

1

0 replies

Top



ahuazuipiaoliang on Apr 27, 2023 (Collaborator)

Pixmoving Presentation Slides

1

1 reply



ahuazuipiaoliang on Apr 27, 2023 (Collaborator)

@mitsudome-r

please have a look at the slides



ahuazuipiaoliang on Apr 28, 2023 (Collaborator)

@mitsudome-r Thank you for your advice, after modifying the DDS configuration, according to the instruction of Autoware, the performance of Autoware has been optimized.

```
export PATH="$PATH:/home/pixkit/.local/bin"
source /opt/ros/humble/setup.bash
export RMW_IMPLEMENTATION=rmw_cyclonedds_cpp
export PATH=/usr/local/cuda/bin${PATH:+:${PATH}}
export LD_LIBRARY_PATH=/usr/local/cuda/lib64${LD_LIBRARY_PATH:+:${LD_LIBRARY_PATH}}
export PATH="/usr/local/cuda/bin:$PATH"
export LD_LIBRARY_PATH="/usr/local/cuda/lib64:$LD_LIBRARY_PATH"
export RCUTILS_COLORIZED_OUTPUT=1
export ROS_LOCALHOST_ONLY=1
if [ ! -e /tmp/cycloneDDS_configured ]; then
    sudo sysctl -w net.core.rmem_max=2147483647
    sudo ip link set lo multicast on
    touch /tmp/cycloneDDS_configured
```

But we still meet the autowarefoundation/autoware.universe#3569

1

0 replies