Map Display Nodes

Overview

This page documents two nodes that display maps during and after the mapping process:

- **ShowCurrentMap:** Displays the current map during the mapping process alongside a ground truth map.
- **ShowFinishedMap:** Displays the final saved map after the mapping task alongside the ground truth map.

ShowCurrentMapNode

The **ShowCurrentMapNode** subscribes to the /map topic, which publishes the current occupancy grid during the mapping process. It visualizes the map side by side with the ground truth map using OpenCV.

- Subscribed Topics:
 - /map: Receives the current occupancy grid (nav msgs::msg::OccupancyGrid).
- Key functionality:
 - Converts the occupancy grid into an OpenCV image.
 - Displays the current map and the ground truth map side by side using OpenCV.

Example usage:

ros2 run your_package_name show_current_map

ShowFinishedMapNode

The **ShowFinishedMapNode** loads the final saved map after the mapping task is complete, along with the ground truth map. It displays both maps side by side using OpenCV.

- Key functionality:
 - Loads the ground truth map and final map from disk.
 - Displays both maps side by side using OpenCV.

Example usage:

ros2 run your_package_name show_finished_map

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1 of 1 10/3/24, 00:30