Error message from system_error_monitor during planning-simulation #3950



Unanswered)

felixf4xu asked this question in Q&A



(3++) felixf4xu on Nov 1, 2023

Hi,

I'm trying planning simulation by instructions at https://autowarefoundation.github.io/autoware-

documentation/main/tutorials/ad-hoc-simulation/planning-simulation/ and I run:

ros2 launch autoware_launch planning_simulator.launch.xml
map_path:=\$HOME/autoware_map/sample-map-planning
vehicle_model:=sample_vehicle sensor_model:=sample_sensor_kit

In the terminal, I got several error messages:

 $[system_error_monitor-16] \ [ERROR] \ [1698828110.660675931] \\ [system_error_monitor]$

/autoware/control/autonomous_driving/node_alive_monitoring]:

[Single Point Fault]: Error

[system_error_monitor-16] [ERROR] [1698828110.660702997]

[system_error_monitor

/autoware/control/autonomous_driving/node_alive_monitoring/topic_sta

control_topic_status]: [Single Point Fault]: Error

[system_error_monitor-16] [ERROR] [1698828110.660709785]

[system_error_monitor

/autoware/control/autonomous_driving/node_alive_monitoring/topic_sta

control_topic_status]: [Single Point Fault]: Error

[system_error_monitor-16] [ERROR] [1698828110.660714491]

[system_error_monitor /autoware/planning/node_alive_monitoring]:

[Single Point Fault]: Error

[system error monitor-16] [ERROR] [1698828110.660719102]

[system_error_monitor

/autoware/planning/node_alive_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_sta

planning_topic_status]: [Single Point Fault]: OK

[system_error_monitor-16] [ERROR] [1698828110.660723480]

[system_error_monitor

/autoware/planning/node_alive_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic_state_monitoring/topic_status/topic

planning_topic_status]: [Single Point Fault]: Error

[system_error_monitor-16] [ERROR] [1698828110.660727858]

[system_error_monitor

/autoware/planning/performance_monitoring/trajectory_validation]:

[Single Point Fault]: Error

[system_error_monitor-16] [ERROR] [1698828110.660732596]

[system_error_monitor

/autoware/planning/performance_monitoring/trajectory_validation/traj

trajectory_validation_acceleration]: [Single Point Fault]:

acceleration is too large

[system_error_monitor-16] [ERROR] [1698828110.660785034]

Category



Q&A

Labels

None yet

3 participants



Q

Q



```
[system_error_monitor
/autoware/planning/performance_monitoring/trajectory_validation/traj
trajectory_validation_curvature]: [Single Point Fault]: curvature
is too large
[system_error_monitor-16] [ERROR] [1698828110.660790761]
[system_error_monitor
/autoware/planning/performance_monitoring/trajectory_validation/traj
trajectory_validation_deceleration]: [Single Point Fault]:
deceleration is too large
[system_error_monitor-16] [ERROR] [1698828110.660794815]
[system_error_monitor
/autoware/planning/performance_monitoring/trajectory_validation/traj
trajectory_validation_finite]: [Single Point Fault]: infinite
value is found
[system_error_monitor-16] [ERROR] [1698828110.660799487]
[system_error_monitor
/autoware/planning/performance_monitoring/trajectory_validation/traj
trajectory_validation_interval]: [Single Point Fault]: points
interval is too long
[system error monitor-16] [ERROR] [1698828110.660804158]
[system_error_monitor
/autoware/planning/performance_monitoring/trajectory_validation/traj
trajectory_validation_lateral_acceleration]: [Single Point
Fault]: lateral acceleration is too large
[system_error_monitor-16] [ERROR] [1698828110.660808695]
[system_error_monitor
/autoware/planning/performance monitoring/trajectory validation/tra
trajectory_validation_relative_angle]: [Single Point Fault]:
relative angle is too large
[system_error_monitor-16] [ERROR] [1698828110.660813396]
[system_error_monitor
/autoware/planning/performance monitoring/trajectory validation/tra
trajectory_validation_steering]: [Single Point Fault]: expected
steering is too large
[system_error_monitor-16] [ERROR] [1698828110.660817686]
[system_error_monitor
/autoware/planning/performance_monitoring/trajectory_validation/traj
trajectory_validation_steering_rate]: [Single Point Fault]:
expected steering rate is too large
[system_error_monitor-16] [ERROR] [1698828110.660821689]
[system_error_monitor
/autoware/planning/performance_monitoring/trajectory_validation/traj
trajectory_validation_steering_rate]: [Single Point Fault]:
expected steering rate is too large
[system_error_monitor-16] [ERROR] [1698828110.660826018]
[system_error_monitor
/autoware/planning/performance_monitoring/trajectory_validation/traj
trajectory_validation_velocity_deviation]: [Single Point Fault]:
velocity deviation is too large
```

How to read and explain this error message?

```
system_error_monitor
/autoware/control/autonomous_driving/node_alive_monitoring/top____ta
control_topic_status]: [Single Point Fault]: Error
```

I guess topic_state_monitor_control_command_control_cmd is a node name, but what's Single Point Fault?

[Single Point Fault]: Error



In the same terminal, I have several additional message:

[component_container_mt-35] [INFO] [1698828105.978490946] [default_ad_api.node.operation_mode]: control, planning components at the is unhealthy. Autonomous is not available. [component_container-34] [INFO] [1698828106.091265498] [control.trajectory_follower.controller_node_exe]: Waiting for trajectory.

[component_container-34] [INFO] [1698828106.091300094]
[control.trajectory_follower.controller_node_exe]: Control is
skipped since input data is not ready.

[component_container_mt-35] [INFO] [1698828108.978990938]

[default_ad_api.node.operation_mode]: control, planning component state is unhealthy. Autonomous is not available.

[component_container-34] [INF0] [1698828110.559280915]

 $[control.trajectory_follower.lane_departure_checker_node]:$

waiting for reference_trajectory msg...

My AUTO button is greyed out, so I can't proceed along with the document to start simulation.



(the screenshot is from the document, where AUTO button is enabled.

1

2 comments

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isamu-takagi on Nov 8, 2023 (Maintainer)

How to read and explain this error message?

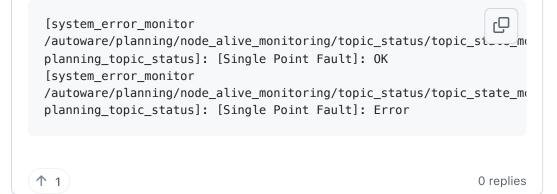
I guess topic_state_monitor_control_command_control_cmd is a node name, but what's Single Point Fault?

Yes, topic_state_monitor_control_command_control_cmd is the name of the node that monitors the topic rate. And that node is detecting and reporting an error in the topic rate.

Single Point Fault indicates that the error has been classified as requiring an emergency stop. (It is based on the word in ISO 26262, but it is used with a different meaning in Autoware.)

My AUTO button is greyed out, so I can't proceed along with the document to start simulation.

From the log below, it seems that the route is being output, but the trajectory is not. There is probably an error occurring on the nodes between them (such as behavior_path_planner, behavior_velocity_planner). Please check if these nodes are working properly.





kyoichi-sugahara on Jan 16 Collaborator

@isamu-takagi Thank you so much for answering @felixf4xu If you still have question please open another discussion, I will close this discussion for now.



0 replies