

Always use_sim_time? #2673

Unanswered doganulus asked this question in Q&A



doganulus on Jun 19, 2022

Collaborator

edited ▾

I currently investigate the timing aspects of Autoware, which is critical for testing and simulation but also its overall safety. Normally it's desirable to build real-time systems on a linear, increasing, and abstract time model, which helps the determinism and stability of the system.

One of ROS2's design articles talks about the issue of [clock and time](#) and mentions that such time abstraction can be achieved via publishing to the `/clock` topic and setting `use_sim_time` parameter at launch. Now the parameter name `use_sim_time` may imply that it is only for simulation. But, as far as I can see, it can be used to have better control over timestamps even at deployment time and provide a greater parity with simulation. Yet I am not familiar enough with network issues or other performance considerations.

So I wonder what arguments can be made against setting `use_sim_time` *always* and controlling timestamps via an explicit clock publisher in Autoware?

↑ 3

Category



Q&A

Labels

None yet

1 participant



0 comments