

Questions about autoware.universe end-to-end performance issues. #3048

Unanswered nainaigetuide asked this question in Q&A



nainaigetuide on Nov 16, 2022

Hello.

- I'm doing work on profiling autoware.universe. At present, I have encountered the problem of high end-to-end delay, and I would like to ask for advice.

The machine configuration is as follows:

Scenario: <https://autowarefoundation.github.io/autoware-documentation/main/tutorials/ad-hoc-simulation/rosbag-replay-simulation/>

Environment

OS: Ubuntu 20.04, 5.15.0-52-generic

ROS: ROS2 Galactic

CPU: Intel(R) Xeon(R) Silver 4114 CPU @ 2.20GHz 40 Core

GPU: Tesla T4

Memory: 64GByte

Storage: 180GByte

- When using the Caret tool to analyze the delay, it is found that the delay is much higher than 100ms, and the bottleneck is not in the calculation of a certain ROS node. Every part seems to have a relatively high delay, such as attachments.

[test.pdf](#)

- When running autoware, the average CPU utilization rate is 40%, the highest load is 20, and the highest IO TPS is 190. These indicators do not show the bottleneck of the program.
- I have the following questions:
Do you know the bottleneck that restricts the high latency of the system?

↑ 1

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None yet

2 participants



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takeshi-iwanari on Nov 18, 2022

Please refer to the following comment.

[tier4/caret_analyze#203 \(comment\)](#)

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