heaphook: roadmap to stable debian package #3310

New issue

⊘ Closed   ⊙ 3 tasks done   **sykwer** opened this issue on Mar 5, 2023 · 1 comment

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sykwer commented on Mar 5, 2023   Member

Checklist

- ☑ I've read the contribution guidelines.
- ☑ I've searched other issues and no duplicate issues were found.
- ☑ I've agreed with the maintainers that I can plan this task.

Description

I've developed https://github.com/tier4/heaphook to resolve the performance bottleneck caused by the heap allocation (See #3274).
When Autoware is distributed as Debian packages as discussed in #3222, as many ROS packages as possible should be installed as Debian packages from the Autoware side to reduce the build time burden.
Since `heaphook` is still under development, I'd like to first add it to `autoware.repos`, and show here the roadmap until it is eventually installed as a Debian package.

Purpose

Provide `heaphook` as a Debian package for Autoware.

Possible approaches

The following significant changes are expected to be made to `heaphook`.

- Design changes to make it easier to add new memory allocation algorithms (separation of policy and mechanism)
- Add new memory allocation algorithms
- Major API changes (currently, a `so` file with different names for each memory allocation algorithm are

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants

specified directly in `LD_PRELOAD` , but this may change in the future)

- Performance evaluation and resulting changes

After the development gets stable, provide `heaphook` as a Debian package for Autoware.
Manage `heaphook` packages as discussed in [#3222](#).

Definition of done

Development of `heaphook` gets stable and stable versions are distributed as Debian packages.

👍 1

sykwer mentioned this issue on Mar 5, 2023

feat(repos): add heaphook to repos `⑁ Merged`
#3306

📋 4 tasks

xmfcx commented on Nov 15, 2023   `Contributor`

With the release, I am closing the issue.

It is possible to perform `sudo apt install ros—humble—heaphook` right now.

https://github.com/ros/rosdistro/blob/master/humble/distribution.yaml#L2326-L2340

❤️ 1

xmfcx closed this as [completed](#) on Nov 15, 2023