

[proposal] Removing NDT implementations other than `ndt_omp` #2936

✓ Answered by **kminoda** **kminoda** asked this question in **Ideas**



kminoda on Oct 12, 2022

Collaborator

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I propose to remove `ndt` and `ndt_pcl_modified` packages from Autoware.

The package was intended to provide a unique interface for various types of NDT implementation (like `ndt_omp` or `pcl` ones), but in real current Autoware is actually designed to use `ndt_omp` implementation. In addition, as far as we know, NDT implementations other than `ndt_omp` does not seem to be used.

It is true that leaving these packages would be better in terms of customizability, but I believe that the drawbacks of the increase in maintaining cost is non-negligible.

Thus, I propose to remove `ndt` and `ndt_pcl_modified` packages to simplify the localization module and especially `ndt_scan_matcher`.

Let us know if you are using `pcl` or `pcl_modified` implementations for NDT.

I will wait for a week (let me know if this is too short), and if I see no disagreements on this proposal, I would like to move on to apply the above idea to Autoware.

- [Corresponding pull request](#)
- [Performance evaluation between NDT in PCL vs NDT_OMP](#)

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Answered by **kminoda** on Oct 19, 2022

Since no response was posted here, I would like to close this discussion and move on to remote the `ndt` package.

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kminoda on Oct 19, 2022

Collaborator

Author

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Answer selected by **kminoda**