Introduction

Paul Gessinger CERN 2022-02-18



Highlights

algebra-plugins

■ Add Matrix Type, main branch (2022.02.11.) (PR#50) by @krasznaa, merged on 2022-02-14

detray

- Add track parameters (PR#196) by @beomki-yeo, merged on 2022-02-16
- feat: Introduce detector metadata (PR#200) by @niermann999, merged on 2022-02-13
- OPEN: Add RK stepper (PR#204) by @beomki-yeo, updated on 2022-02-18

Contributions today I

- SYCL Seed finding, Track param estimation and Spacepoint binning by Konrad Aleksander Kusiak
- Stephen's quest for the optimal parallelization strategy for propagation by Stephen Nicholas Swatman

Backup

Merged PRs

acts-project/traccc

acts-project/traccc: PRs merged since 2022-02-04 I

- Bug fix initializing local memory in doublet finding (PR#128) by @konradkusiak97, merged on 2022-02-04
- Fix warning in track parameter estimation (PR#131) by @beomki-yeo, merged on 2022-02-10
- Avoid zero block case for track parameter estimation (PR#134) by @beomki-yeo, merged on 2022-02-14
- Update seeding configuration (PR#135) by @beomki-yeo, merged on 2022-02-14
- Warning Fixes, main branch (2022.02.10.) (PR#132) by @krasznaa, merged on 2022-02-16
- Add boost program options (PR#136) by @beomki-yeo, merged on 2022-02-17

acts-project/traccc

Open PRs

acts-project/traccc: Open PRs I

- Add Seeding Performance Writer (PR#130) by @beomki-yeo, updated on 2022-02-18
- Add a mapper for validation purpose (PR#133) by @beomki-yeo, updated on 2022-02-17
- Another CUDA implementation of connected component labeling (PR#19) by @stephenswat, updated on 2021-12-01

acts-project/vecmem

Merged PRs

acts-project/vecmem: PRs merged since 2022-02-04 I

- LLVM CUDA Compatibility, main branch (2022.02.04.) (PR#164) by @krasznaa, merged on 2022-02-11
- CUDA Runtime Dynamic Linking, main branch (2022.02.05.) (PR#165) by @krasznaa, merged on 2022-02-11

Open PRs

acts-project/vecmem

acts-project/vecmem: Open PRs I

■ [WIP] Add cms caching cuda allocator (PR#79) by @cgleggett, updated on 2021-04-28

acts-project/detray

Merged PRs

acts-project/detray: PRs merged since 2022-02-04 I

- Warning Improvements, main branch (2022.02.04.) (PR#193) by @krasznaa, merged on 2022-02-05
- Use pointer for detector in navigator class (PR#194) by @beomki-yeo, merged on 2022-02-05
- Project Version Update, main branch (2022.02.09.) (PR#198) by @krasznaa, merged on 2022-02-09
- feat: Introduce detector metadata (PR#200) by @niermann999, merged on 2022-02-13
- update to algebra plugins v0.7.0 (PR#202) by @beomki-yeo, merged on 2022-02-15
- Add track parameters (PR#196) by @beomki-yeo, merged on 2022-02-16

acts-project/detray: PRs merged since 2022-02-04 II

■ Project version update to v0.6.0 (PR#203) by @beomki-yeo, merged on 2022-02-16

Open PRs

acts-project/detray

acts-project/detray: Open PRs I

- Add RK stepper (PR#204) by @beomki-yeo, updated on 2022-02-18
- ref: Remove edges from surfaces (PR#201) by @niermann999, updated on 2022-02-15
- ref: Harmonize type handling in surfaces and volumes (PR#180) by @niermann999, updated on 2022-02-11
- feat: add guided navigator example (PR#197) by @niermann999, updated on 2022-02-09
- ref: Use adj matrix in geometry graph (PR#179) by @niermann999, updated on 2022-01-17

Merged PRs

acts-project/algebra-plugins

acts-project/algebra-plugins: PRs merged since 2022-02-04 I

- Fix identity error in CUDA debug builds with Eigen (PR#47) by @stephenswat, merged on 2022-02-04
- More MSVC Fixes, main branch (2022.02.04.) (PR#48) by @krasznaa, merged on 2022-02-11
- Add Matrix Type, main branch (2022.02.11.) (PR#50) by @krasznaa, merged on 2022-02-14