Introduction

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CERN

2021-10-29 - ACTS Parallelization Meeting

acts-project/traccc
Merged PRs

acts-project/traccc: PRs merged since 2021-10-15 I

- **Mark header functions inline to avoid linker error** (PR#98)
  by @stephenswat, merged on 2021-10-25

acts-project/traccc
Open PRs

acts-project/traccc: Open PRs I

- **Fix several outstanding compiler warnings** (PR#99)
  by @stephenswat, updated on 2021-10-26
- **Refactor spacepoint binning** (PR#95)
  by @beomki-yeo, updated on 2021-10-26
- **Refactor our test building infrastructure** (PR#97)
  by @stephenswat, updated on 2021-10-26
- **Track parameter estimation for cpu and cuda** (PR#85)
  by @beomki-yeo, updated on 2021-10-26
- **Reject warnings in CI builds** (PR#80)
  by @stephenswat, updated on 2021-10-25
- **Add a minimal CUDA magnetic field storage** (PR#94)
  by @stephenswat, updated on 2021-10-15

acts-project/traccc: Open PRs II

- **Add a test suite for connected component analysis** (PR#91)
  by @stephenswat, updated on 2021-09-28
- **Another CUDA implementation of connected component labeling** (PR#19)
  by @stephenswat, updated on 2021-09-08

acts-project/vecmem
Merged PRs

acts-project/vecmem: PRs merged since 2021-10-15 I

- **Add five additional downstream memory resources** (PR#114)
  by @stephenswat, merged on 2021-10-22
- **Add a special memory resource for debugging** (PR#132)
  by @stephenswat, merged on 2021-10-23
- **oneAPI Support Update, main branch (2021.10.24.)** (PR#133)
  by @krasznaa, merged on 2021-10-25
- **GoogleTest Separation, main branch (2021.10.25.)** (PR#134)
  by @krasznaa, merged on 2021-10-25
- **Deduplicate common memory resource test definition** (PR#135)
  by @stephenswat, merged on 2021-10-28

acts-project/vecmem
Open PRs

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 2021-10-15 I

- **feat: toy geometry** (PR#125)
  by @niermann999, merged on 2021-10-15
- **Enable using the grid in cuda device code – squashed version of #96** (PR#128)
  by @beomki-yeo, merged on 2021-10-19
- **feat: walk along the geometry graph** (PR#124)
  by @niermann999, merged on 2021-10-20
- **feat: single type navigator** (PR#127)
  by @niermann999, merged on 2021-10-25
- **remove the forward declaration** (PR#138)
  by @beomki-yeo, merged on 2021-10-27
- **fix warninig from pointless comparioins of dindex >= 0** (PR#137)
  by @beomki-yeo, merged on 2021-10-27

acts-project/detray: PRs merged since 2021-10-15 II

- **use explicit template argument for grid get data** (PR#139)
  by @beomki-yeo, merged on 2021-10-27
- **fix: remove compiler warnings and fix display app** (PR#140)
  by @niermann999, merged on 2021-10-28
- **ref: make volume class more generic** (PR#135)
  by @niermann999, merged on 2021-10-28

acts-project/detray
Open PRs

acts-project/detray: Open PRs I

- **Project Externals Re-organisation, main branch (2021.10.18.)** (PR#129)
  by @krasznaa, updated on 2021-10-29
- **idea: use custom detray get** (PR#142)
  by @niermann999, updated on 2021-10-29
- **cuda implementation for mask store** (PR#134)
  by @beomki-yeo, updated on 2021-10-29
- **cuda implementation for transform_store** (PR#133)
  by @beomki-yeo, updated on 2021-10-29
- **feat: geometry reachability checks** (PR#141)
  by @niermann999, updated on 2021-10-28
- **feat: introduce batched geometry** (PR#84)
  by @niermann999, updated on 2021-10-12

acts-project/algebra-plugins
Merged PRs

- **Repository Re-organisation, main branch (2021.10.15.)** (PR#27)
  by @krasznaa, merged on 2021-10-19
- **Add cuda qualifiers to algebras** (PR#28)
  by @beomki-yeo, merged on 2021-10-19
- **clang-format, main branch (2021.10.20.)** (PR#30)
  by @krasznaa, merged on 2021-10-20

acts-project/algebra-plugins
Open PRs

acts-project/algebra-plugins: Open PRs I

- **Code Rewrite, main branch (2021.10.22.)** (PR#31)
  by @krasznaa, updated on 2021-10-28

Contributions today I

- **vecmem status update**
  by Stephen Nicholas Swatman
- **Peek at changes to algebra-plugins**
  by Attila Krasznahorkay