

Parallelization Meeting

Stephen Nicholas Swatman

CERN

2022-05-13



Highlights

- **Container Cleanup, main branch (2022.05.09.)** ([traccc#188](#))
by [@krasznaa](#), merged on 2022-05-10
- **Optimized SYCL Clusterization** ([traccc#187](#))
by [@konradkusiak97](#), merged on 2022-05-11
- **Add additional comments to CUDA CCL algorithm** ([traccc#191](#))
by [@ugGit](#), updated on 2022-05-13
- **Add CI jobs which run the GPU tests** ([vecmem#176](#))
by [@paulgessinger](#), merged on 2022-05-12
- **add vecpar example** ([detray#235](#))
by [@georgi-mania](#), updated on 2022-05-11
- **feat: add example of chained actors** ([detray#248](#))
by [@niermann999](#), updated on 2022-04-27
- **Add jacobian and covariance engine** ([detray#251](#))
by [@beomki-yeo](#), merged on 2022-05-09



Contributions

- **Update on detray navigation: actors and policies**
by Joana Niermann
- **Impact of compiler choice on GPU runtime performance**
by Georgiana Mania

acts-project/traccc: PRs merged since 2022-04-29 |

- **Add binary file I/O (PR#177)**
by @beomki-yeo, merged on 2022-04-29
- **Rewrite SYCL clusterization to reduce copies (PR#181)**
by @konradkusiak97, merged on 2022-05-03
- **Update Algebra Plugins and Detray, main branch (2022.05.03.) (PR#182)**
by @krasznaa, merged on 2022-05-04
- **Update VecMem, main branch (2022.05.03.) (PR#183)**
by @krasznaa, merged on 2022-05-04
- **Const Correctness Updates, main branch (2022.05.05.) (PR#184)**
by @krasznaa, merged on 2022-05-05
- **Common Device Doublet Finding, main branch (2022.05.05.) (PR#185)**
by @krasznaa, merged on 2022-05-06

acts-project/traccc: PRs merged since 2022-04-29 II

- **Container Cleanup, main branch (2022.05.09.) (PR#188)**
by @krasznaa, merged on 2022-05-10
- **Cell EDM Update, main branch (2022.05.10.) (PR#189)**
by @krasznaa, merged on 2022-05-10
- **Cluster EDM Update, main branch (2022.05.11.) (PR#190)**
by @krasznaa, merged on 2022-05-11
- **Optimized SYCL Clusterization (PR#187)**
by @konradkusiak97, merged on 2022-05-11

acts-project/traccc: Open PRs I

- **Add additional comments to CUDA CCL algorithm (PR#191)**
by @ugGit, updated on 2022-05-13
- **Move 'event_map.hpp' into 'traccc/io' directory (PR#176)**
by @beomki-yeo, updated on 2022-04-25
- **Reorganize seeding structure (PR#167)**
by @beomki-yeo, updated on 2022-04-14
- **Implement and test a CUDA version of the module map (PR#154)**
by @stephenswat, updated on 2022-04-13
- **Implement CUDA spacepoint formation with flat EDM (PR#158)**
by @stephenswat, updated on 2022-04-01

acts-project/vecmem: PRs merged since 2022-04-29 I

- **Introduce vecmem::copy::memset, main branch (2022.05.02.) (PR#177)**
by @krasznaa, merged on 2022-05-03
- **Add CI jobs which run the GPU tests (PR#176)**
by @paulgessinger, merged on 2022-05-12

acts-project/vecmem: Open PRs I

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

acts-project/detray: PRs merged since 2022-04-29 |

- **Grid2 Const Correctness, main branch (2022.04.28.) (PR#253)**
by @krasznaa, merged on 2022-04-29
- **Project Version Update, main branch (2022.05.03.) (PR#254)**
by @krasznaa, merged on 2022-05-03
- **Add jacobian and covariance engine (PR#251)**
by @beomki-yeo, merged on 2022-05-09

acts-project/detray: Open PRs I

- **Generic container** (PR#255)
by @beomki-yeo, updated on 2022-05-12
- **add vecpar example** (PR#235)
by @georgi-mania, updated on 2022-05-11
- **feat: add example of chained actors** (PR#248)
by @niermann999, updated on 2022-04-27
- **Add scalar template parameter in magnetic field** (PR#247)
by @beomki-yeo, updated on 2022-04-26
- **exp: runge kutta specific navigation policy** (PR#249)
by @niermann999, updated on 2022-04-25
- **feat: make surface finders callable from navigator** (PR#208)
by @niermann999, updated on 2022-04-12

acts-project/detray: Open PRs II

- **Reduce CI workflows** (PR#244)
by @beomki-yeo, updated on 2022-04-11
- **feat: adding nlohman library** (PR#213)
by @asalzburger, updated on 2022-04-08

acts-project/algebra-plugins: PRs merged since 2022-04-29 I

- **Stability improvement (PR#64)**
by @beomki-yeo, merged on 2022-04-29
- **Add dot product between vector expression in smatrix (PR#65)**
by @beomki-yeo, merged on 2022-04-29

acts-project/algebra-plugins: Open PRs

No new open PRs since **2022-04-29** in
acts-project/algebra-plugins

acts-project/covfie: PRs merged since 2022-04-29

No merged PRs since **2022-04-29** in
acts-project/covfie

acts-project/covfie: Open PRs

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acts-project/covfie