Acts PR & Issue Recap

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July 26, 2022

Overview

- **feat: Propagator accepts prepared result instance** (PR#1317)
  by @paulgessinger, merged on 2022-07-21
- **refactor: Log threshold error reporting** (PR#1333)
  by @paulgessinger, merged on 2022-07-22
- **build: Update EVERYTHING, do not use EVERYTHING in LCG builds** (PR#1335)
  by @paulgessinger, merged on 2022-07-22
- **ci: Add linux_ubuntu_extra matrix image to ccache key** (PR#1336)
  by @paulgessinger, merged on 2022-07-22
- **refactor: remove old DD4hep example detectors** (PR#1337)
  by @paulgessinger, merged on 2022-07-25
- **fix: add missing TFile::Close() to destructors in ROOT writers** (PR#1344)
  by @AJPfleger, merged on 2022-07-26

- **chore: clang-tidy readability-braces-around-statements**
  (PR#1343)
  by @paulgessinger, merged on 2022-07-26

- **chore: clang-tidy modernize-use-using** (PR#1342)
  by @paulgessinger, updated on 2022-07-26
- **feat: Compute material variance in material mapping** (PR#1318)
  by @Corentin-Allaire, updated on 2022-07-26
- **fix: Update the Material Mapping ploting script to remove json dependency** (PR#1319)
  by @Corentin-Allaire, updated on 2022-07-26
- **refactor: Move add* functions to python modules** (PR#1309)
  by @tboldagh, updated on 2022-07-26
- **docs: Fix seeding example documentation** (PR#1340)
  by @robertlangenberg, updated on 2022-07-26
- **feat: incorporate itk_seeding into chained style for Python modules with full_chain_itk example** (PR#1331)
  by @LuisFelipeCoelho, updated on 2022-07-26

acts-project/acts: Open PRs (non WIP) II

- **feat: improve Python named-type argument checks** (PR#1341)
  by @timadye, updated on 2022-07-25
- **test: geant4 python example** (PR#1334)
  by @andiwand, updated on 2022-07-25
- **fix: Multi-Stepper stepping error in multiple components +
  refactoring** (PR#1339)
  by @benjaminhuth, updated on 2022-07-25
- **fix: full chain vertexing** (PR#1299)
  by @andiwand, updated on 2022-07-22
- **feat: Hough Transform first implementation** (PR#1305)
  by @jahreda, updated on 2022-07-19
- **feat: MultiTrajectory backends** (PR#1262)
  by @paulgessinger, updated on 2022-07-11

- **KalmanFilter error: No measurement detected during the propagation** (Issue#1328)
  by @CarloVarni, updated on 2022-07-19

- **feat: Enable more fine-grained digitization configuration** (PR#1272)
  by @benjaminhuth, updated on 2022-07-10
- **2D r-z Magnetic Field Map Improperly Read** (Issue#669)
  by @osbornjd, updated on 2022-06-18
- **Magnetic Field Storage** (Issue#1239)
  by @osbornjd, updated on 2022-06-12
- **Reproducibility test using hash checks for non-linear KF** (Issue#1246)
  by @paulgessinger, updated on 2022-06-12
- **Cut tube segment dd4hep conversion tests** (Issue#1146)
  by @rahmans1, updated on 2022-05-25
- **Bug: fatras different particle final states between python and executable** (Issue#1221)
  by @CouthuresJeremy, updated on 2022-05-01

acts-project/acts: Stale Issues / PRs II

- **ci: Coverage job is broken with gcovr ¿= 5.1** (Issue#1211)
  by @paulgessinger, updated on 2022-04-29

- **Bug: issue on first build after DD4hep update on system with globaly installed acts** (Issue#1139)
  by @gagnonlg, updated on 2022-02-22

- **Feat: Radial bounds in DD4hep plugin** (Issue#822)
  by @whit2333, updated on 2022-02-19

- **feat!: EXPERIMENTAL! world without layers** (PR#1039)
  by @asalzburger, updated on 2022-02-16

- **Add example (+test) for vertex fitting with constraints** (Issue#1100)
  by @paulgessinger, updated on 2022-01-07

- **Should seed finding tools have a higher-level interface?** (Issue#988)
  by @stephenswat, updated on 2021-11-25

acts-project/acts: Stale Issues / PRs III

- **[bug] Off axis endcap with dd4hep plugin.** (Issue#942)
  by @whit2333, updated on 2021-11-25

- **Improvement: Estimate track parameters from seed at perigee surface** (Issue#1036)
  by @XiaocongAi, updated on 2021-11-10

- **Polyhedron surfaces tests are disabled** (Issue#454)
  by @msmk0, updated on 2021-11-04

- **Tracking for TPC/DC without surfaces** (Issue#165)
  by @FabianKlimpel, updated on 2021-11-04

- **BoundingBox tests fail on double precision** (Issue#752)
  by @paulgessinger, updated on 2021-11-04

- **Debug Information in Acts Seeder** (Issue#944)
  by @osbornjd, updated on 2021-10-21

- **fix: avoid double-static cast** (Issue#647)
  by @asalzburger, updated on 2021-10-21