Pull request and issue summary for acts-project/acts

September 20, 2022

acts-project/acts: PRs merged between 2022-09-13 and 2022-09-20 I

- ▶ ⑂ **refactor: Reuse MultiTrajectory in (C)KF** (PR#1507)
  by @paulgessinger, no assignee, merged on 2022-09-13
- ▶ ⑂ **fix: Sequencer correctly calls algorithm finalize** (PR#1514)
  by @paulgessinger, no assignee, merged on 2022-09-13
- ▶ ⑂ **feat: Add operator -> to Acts::Result** (PR#1509)
  by @benjaminhuth, no assignee, merged on 2022-09-13
- ▶ ⑂ **docs: Remove obsolete config, and invalid doc markup** (PR#1519)
  by @paulgessinger, no assignee, merged on 2022-09-14
- ▶ ⑂ **docs: Fix seeding example documentation** (PR#1340)
  by @robertlangenberg, assigned to @robertlangenberg, merged on 2022-09-15
- ▶ ⑂ **docs: Enable sphinx linkcheck build in CI** (PR#1523)
  by @paulgessinger, no assignee, merged on 2022-09-15
- ▶ ⑂ **docs: Update magnetic field documentation** (PR#1518)
  by @paulgessinger, no assignee, merged on 2022-09-15
- ▶ ⑂ **docs: Tracking in a nutshell** (PR#1399)
  by @paulgessinger, assigned to @paulgessinger, merged on 2022-09-15

acts-project/acts: PRs merged between 2022-09-13 and 2022-09-20 II

- ▶ 🔗 **docs: Update logging doc, add info on thresholds** (PR#1520)
  by @paulgessinger, no assignee, merged on 2022-09-16

- ▶ 🔗 **docs: update markdown cheatsheet** (PR#1524)
  by @benjaminhuth, no assignee, merged on 2022-09-16

- ▶ 🔗 **feat: Exa.TrkX with torchscript backend** (PR#1473)
  by @benjaminhuth, no assignee, merged on 2022-09-16

- ▶ 🔗 **docs: Gaussian Sum Filter** (PR#1403)
  by @benjaminhuth, assigned to @benjaminhuth, merged on 2022-09-16

- ▶ 🔗 **fix: Added missing return to seedfinder::CreateSeedsForGroup** (PR#1521)
  by @guilhermeAlmeida1, no assignee, merged on 2022-09-16

- ▶ 🔗 **refactor: Improve material mapping speed** (PR#1458)
  by @Corentin-Allaire, assigned to @asalzburger, merged on 2022-09-16

- ▶ 🔗 **feat: Allow configurable particle selection and reproducible seeds for Geant4** (PR#1428)
  by @benjaminhuth, no assignee, merged on 2022-09-19

- ▶ 🔗 **chore: Add priority merge label to kodiak config** (PR#1532)
  by @paulgessinger, no assignee, merged on 2022-09-19

- **chore: Add priority label to kodiak config** (PR#1533)
  by @paulgessinger, no assignee, merged on 2022-09-19
- **docs: Contribution guidelines** (PR#1525)
  by @paulgessinger, no assignee, merged on 2022-09-19
- **fix: ParticleSmearing options not setup in AMVF example exe** (PR#1508)
  by @paulgessinger, no assignee, merged on 2022-09-19
- **refactor: improve full_chain_itk.py example** (PR#1513)
  by @timadye, assigned to @andiwand, merged on 2022-09-19

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- ⤴ **refactor: improve full_chain_odd.py example** (PR#1538)
  by @andiwand, assigned to @timadye, updated on 2022-09-20

- ⤴ **refactor: MTJ stores measurement as jagged vector** (PR#1512)
  by @paulgessinger, ⚠ **no assignee**, updated on 2022-09-20

- ⤴ **feat: Hough Transform first implementation** (PR#1305)
  by @jahreda, ⚠ **no assignee**, updated on 2022-09-19

- ⤴ **feat: Material Mapping Auto-tuning script with Orion** (PR#1464)
  by @Corentin-Allaire, ⚠ **no assignee**, updated on 2022-09-16

- ⤴ **docs: Exa.TrkX** (PR#1517)
  by @benjaminhuth, ⚠ **no assignee**, updated on 2022-09-16

- ⤴ **fix: Refactor and fix component merging for GSF** (PR#1364)
  by @benjaminhuth, assigned to @asalzburger, updated on 2022-09-13

- ⤴ **feat: Add a tool for writing B-fields to disk in CSV format** (PR#1470)
  by @stephenswat, assigned to @stephenswat, updated on 2022-09-07

acts-project/acts: Open PRs II

- ⚙ **WIP** **ci: test exatrkx training ci** (PR#1505)
  by @benjaminhuth, ⚠ **no assignee**, updated on 2022-09-20

- ⚙ **WIP** **feat: MultiTrajectory backends const version** (PR#1496)
  by @paulgessinger, ⚠ **no assignee**, updated on 2022-09-20

- ⚙ **WIP** **feat: VectorMultiTrajectory memory statistics** (PR#1511)
  by @paulgessinger, ⚠ **no assignee**, updated on 2022-09-19

- ⚙ **WIP** **refactor: Add macro to simplify algorithm binding** (PR#1510)
  by @benjaminhuth, ⚠ **no assignee**, updated on 2022-09-19

- ⚙ **WIP** **docs: updates to the seeding documentation** (PR#1476)
  by @LuisFelipeCoelho, ⚠ **no assignee**, updated on 2022-09-16

- ⚙ **WIP** **docs: adding Fatras description** (PR#1402)
  by @asalzburger, assigned to @asalzburger, updated on 2022-09-14

- ⚙ **WIP** **docs: polish tgeo plugin doc** (PR#1397)
  by @niermann999, assigned to @niermann999, updated on 2022-09-14

acts-project/acts: Open PRs III

- ⑁ **WIP** **docs: first brush over the geometry pages** (PR#1395)
  by @asalzburger, assigned to @asalzburger, updated on 2022-09-14

- ⑁ **WIP** **docs: Add Track Fitting** (PR#1398)
  by @AJPfleger, assigned to @AJPfleger, updated on 2022-09-14

- ⑁ **WIP** **fix: stop CKF branch if particle is stopped** (PR#1454)
  by @andiwand, ⚠ **no assignee**, updated on 2022-09-09

- ⑁ **WIP** Stale **feat: Adding unit tests for perigee propagation outside beam pipe** (PR#1354)
  by @asalzburger, ⚠ **no assignee**, updated on 2022-09-09

- ⑁ **WIP** Stale **refactor: Create and use Acts::SpacePoint as input for public interface of Seedfinder!** (PR#1394)
  by @robertlangenberg, ⚠ **no assignee**, updated on 2022-09-09

- ⑁ **WIP** **chore: Clang-tidy check headers** (PR#1440)
  by @paulgessinger, ⚠ **no assignee**, updated on 2022-09-06

- ⑁ **WIP** **fix: B-field interpolation errors** (PR#1467)
  by @timadye, ⚠ **no assignee**, updated on 2022-09-05

acts-project/acts: Open PRs IV

- ⑂ 🚧 WIP **ci: Only run main ubuntu builds on WIP PRs** (PR#1488)
  by @paulgessinger, ⚠️ **no assignee**, updated on 2022-09-05

- ⑂ 🚧 WIP **feat: global chi2 fitter / GX2F** (PR#1099)
  by @r4lv, ⚠️ **no assignee**, updated on 2022-08-31

- ⑂ 🚧 WIP **feat: experimental geometry - surfaces, portals and volumes** (PR#1465)
  by @asalzburger, ⚠️ **no assignee**, updated on 2022-08-30

- ⑂ 🚧 WIP **fix: Energy loss function** (PR#1323)
  by @beomki-yeo, ⚠️ **no assignee**, updated on 2022-08-17

- ⑂ 🚧 WIP **refactor: change WhiteBoard backend to std::any** (PR#1412)
  by @benjaminhuth, ⚠️ **no assignee**, updated on 2022-08-10

- ⑂ 🚧 WIP Stale **feat!: Allow regional seeding configuration** (PR#1187)
  by @Corentin-Allaire, ⚠️ **no assignee**, updated on 2022-07-30

- ⑂ 🚧 WIP Stale **feat: Finite State Machine Navigator** (PR#1291)
  by @paulgessinger, ⚠️ **no assignee**, updated on 2022-07-30

acts-project/acts: Open PRs V

- ⑂ 🚧 WIP Stale **feat: Enable more fine-grained digitization configuration** (PR#1272)
  by @benjaminhuth, ⚠ **no assignee**, updated on 2022-07-10

- ⑂ 🚧 WIP Stale **feat!: EXPERIMENTAL! world without layers** (PR#1039)
  by @asalzburger, ⚠ **no assignee**, updated on 2022-02-16

- ⊙ **Separate context and config information in SeedFinderConfig** (Issue#1522)
  by @tboldagh, ⚠ **no assignee**, updated on 2022-09-20

- ⊙ **EDM Memory usage** (Issue#1516)
  by @paulgessinger, ⚠ **no assignee**, updated on 2022-09-14

acts-project/acts: All stale Issues / PRs I

- ⑂ 🚧 WIP `Stale` **feat: Adding unit tests for perigee propagation outside beam pipe** (PR#1354)
  by @asalzburger, ⚠️ **no assignee**, updated on 2022-09-09

- ⑂ 🚧 WIP `Stale` **refactor: Create and use Acts::SpacePoint as input for public interface of Seedfinder!** (PR#1394)
  by @robertlangenberg, ⚠️ **no assignee**, updated on 2022-09-09

- ⊙ `Stale` **Some writers performs their writes in the destructor** (Issue#881)
  by @paulgessinger, assigned to @Corentin-Allaire, updated on 2022-08-11

- ⊙ `Stale` **Vertexing issues observed in python vertexing example** (Issue#1091)
  by @paulgessinger, ⚠️ **no assignee**, updated on 2022-08-11

- ⑂ 🚧 WIP `Stale` **feat!: Allow regional seeding configuration** (PR#1187)
  by @Corentin-Allaire, ⚠️ **no assignee**, updated on 2022-07-30

- ⑂ 🚧 WIP `Stale` **feat: Finite State Machine Navigator** (PR#1291)
  by @paulgessinger, ⚠️ **no assignee**, updated on 2022-07-30

- ⑂ 🚧 WIP `Stale` **feat: Enable more fine-grained digitization configuration** (PR#1272)
  by @benjaminhuth, ⚠️ **no assignee**, updated on 2022-07-10

acts-project/acts: All stale Issues / PRs II

- ▶ ⊙ Stale **Magnetic Field Storage** (Issue#1239)
  by @osbornjd, ⚠️ **no assignee**, updated on 2022-06-12

- ▶ ⊙ Stale **Reproducibility test using hash checks for non-linear KF** (Issue#1246)
  by @paulgessinger, assigned to @XiaocongAi, updated on 2022-06-12

- ▶ ⊙ Stale **Cut tube segment dd4hep conversion tests** (Issue#1146)
  by @rahmans1, assigned to @asalzburger, updated on 2022-05-25

- ▶ ⊙ Stale **Bug: fatras different particle final states between python and executable** (Issue#1221)
  by @CouthuresJeremy, ⚠️ **no assignee**, updated on 2022-05-01

- ▶ ⊙ Stale **ci: Coverage job is broken with gcovr $>= 5.1$** (Issue#1211)
  by @paulgessinger, assigned to @paulgessinger, updated on 2022-04-29

- ▶ ⊙ Stale **Bug: issue on first build after DD4hep update on system with globaly installed acts** (Issue#1139)
  by @gagnonlg, ⚠️ **no assignee**, updated on 2022-02-22

- ▶ ⊙ Stale **Feat: Radial bounds in DD4hep plugin** (Issue#822)
  by @whit2333, ⚠️ **no assignee**, updated on 2022-02-19

- ▶ 🔀 🚧 WIP Stale **feat!: EXPERIMENTAL! world without layers** (PR#1039)
  by @asalzburger, ⚠️ **no assignee**, updated on 2022-02-16

- ▶ ⊙ Stale **Add example (+test) for vertex fitting with constraints** (Issue#1100)
  by @paulgessinger, ⚠️ **no assignee**, updated on 2022-01-07

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

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

- ▶ ⊙ Stale **Improvement: Estimate track parameters from seed at perigee surface** (Issue#1036)
  by @XiaocongAi, ⚠️ **no assignee**, updated on 2021-11-10

- ▶ ⊙ Stale **Polyhedron surfaces tests are disabled** (Issue#454)
  by @msmk0, assigned to @asalzburger, updated on 2021-11-04

- ▶ ⊙ Stale **Tracking for TPC/DC without surfaces** (Issue#165)
  by @FabianKlimpel, assigned to @asalzburger, updated on 2021-11-04

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

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

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