Pull request and issue summary for acts-project/acts

January 24, 2023

#### acts-project/acts: PRs merged between 2023-01-17 and 2023-01-24 |

- build: Add -Wfloat-conversion to clang warnings (PR#1676) by @benjaminhuth, no assignee, merged on 2023-01-17
- So fix: fix enum to test presence of inner tube cover surface. (PR#1771) by @goetzgaycken, no assignee, merged on 2023-01-17
- Iso fix: Missing Include in CuboidVolumeBuilder (PR#1786) by @CarloVarni, no assignee, merged on 2023-01-17
- Image: Section Section Section 2023-01-17
  Image: Section 2023-01-17
- ▶ So refactor: Managing Seed Candidates with ad-hoc container (PR#1764) by @CarloVarni, assigned to @noemina, merged on 2023-01-17
- feat: GeolD hook from python & ODD hook (PR#1779) by @benjaminhuth, no assignee, merged on 2023-01-18
- ▶ ⊱ feat: Visualization for DetectorVolume and Portal (PR#1762) by @Matthewharri, no assignee, merged on 2023-01-18
- ▶ ⊱ refactor!: Changes to SeedFinderOrthogonal to allow reuse of the object (PR#1757) by @tboldagh, no assignee, merged on 2023-01-18

#### acts-project/acts: PRs merged between 2023-01-17 and 2023-01-24 II

- So refactor: modernize & add checks to 'Acts::TrackingGeometryBuilder' (PR#1656) by @benjaminhuth, assigned to @andiwand, merged on 2023-01-18
- ▶ ⊱ feat: Optionally decorate geometry dumps to json. (PR#1732) by @goetzgaycken, no assignee, merged on 2023-01-18
- Image: book state of the sta
- Image: Second Second
- fix: Don't write empty trajectories in RootTrajectorySummaryWriter (PR#1789) by @benjaminhuth, no assignee, merged on 2023-01-18
- ▶ ⊱ feat: Enable Geant4 logging in VERBOSE mode (PR#1790) by @benjaminhuth, no assignee, merged on 2023-01-20
- Image: Section Section (PR#1792) by @Corentin-Allaire, assigned to @andiwand, merged on 2023-01-23
- k- refactor: physmon vertexing (PR#1688)
   by @andiwand, no assignee, merged on 2023-01-24
- Image: fix: sequencer timing output (PR#1793) by @andiwand, no assignee, merged on 2023-01-24

# acts-project/acts: Open PRs I

- feat: Add option to use odd with G4 (PR#1794) by @Corentin-Allaire, <u>no assignee</u>, updated on 2023-01-24
- Shore: bump actsvg to v0.4.28 (PR#1797) by @andiwand, no assignee, updated on 2023-01-24
- fix estimation of annulus bounds. (PR#1796) by @goetzgaycken, no assignee, updated on 2023-01-24
- ▶ î feat: Example of integrating HoughTransform example algorithm with python (PR#1795) by @tboldagh, ↑ no assignee, updated on 2023-01-24
- refactor: Suppress large printout of Geant4 by default (PR#1791) by @benjaminhuth, no assignee, updated on 2023-01-23
- fix: Energy loss function (PR#1323) by @beomki-yeo, assigned to @asalzburger, updated on 2023-01-21
- Shuild: Install Examples headers (PR#1752) by @osbornjd, no assignee, updated on 2023-01-19

## acts-project/acts: Open PRs II

- feat: Add INFO printouts about the layers & volumes (PR#1773) by @tboldagh, assigned to @asalzburger, updated on 2023-01-19
- fix: If ITk module splitting is enabled also split back side modules. (PR#1716) by @goetzgaycken, assigned to @niermann999, updated on 2023-01-18
- perf: Tile 8×8 covariance matrix multiplication (PR#1181) by @stephenswat, no assignee, updated on 2023-01-17
- feat: geometry id delegate (PR#1684) by @asalzburger, no assignee, updated on 2023-01-17
- Model WIP docs: adding Fatras description (PR#1402) by @asalzburger, assigned to @asalzburger, updated on 2023-01-18
- Similar WIP docs: first brush over the geometry pages (PR#1395) by @asalzburger, assigned to @asalzburger, updated on 2023-01-18
- Image: WIP feat: new Acts::Detector building from ProtoDetector description (cylindrical) (PR#1767)
   by @asalzburger, no assignee, updated on 2023-01-09

# acts-project/acts: Open PRs III

- Stale feat: port RootNTupleReader (PR#1620) by @andiwand, no assignee, updated on 2022-12-21
- ▶ <sup>™</sup> WIP Stale feat: Python documentation (PR#1633) by @benjaminhuth, <u>↑</u> no assignee, updated on 2022-12-21
- Stale refactor: Create and use Acts::SpacePoint as input for public interface of Seedfinder! (PR#1394) by @robertlangenberg, no assignee, updated on 2022-11-12
- Stale fix: B-field interpolation errors (PR#1467) by @timadye, <u>no assignee</u>, updated on 2022-10-12
- Stale feat: Enable more fine-grained digitization configuration (PR#1272) by @benjaminhuth, A no assignee, updated on 2022-10-03
- Stale feat: Adding unit tests for perigee propagation outside beam pipe (PR#1354) by @asalzburger, no assignee, updated on 2022-09-09

acts-project/acts: New stale Issues / PRs since 2023-01-17 |

Stale Make central minimum track momentum threshold (Issue#1761) by @paulgessinger, A no assignee, updated on 2023-01-21

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

- Stale Make central minimum track momentum threshold (Issue#1761) by @paulgessinger, A no assignee, updated on 2023-01-21
- Stale Drop 'boost progress' from examples where it is not used (Issue#1736) by @tboldagh, no assignee, updated on 2023-01-16
- ► Stale Remove 'volumeSignature' from geometry building (Issue#1731) by @paulgessinger, ↑ no assignee, updated on 2023-01-16
- Stale Detailed timing per event (Issue#1700)
   by @CouthuresJeremy, no assignee, updated on 2023-01-05
- Stale Optimal seeding parameters for a detector (Issue#1699) by @CouthuresJeremy, no assignee, updated on 2023-01-05
- Stale Particle smearing assertion with Geant4 (Issue#1603) by @benjaminhuth, assigned to @benjaminhuth, updated on 2022-12-21
- Stale Create volume restricted BFieldMap (Issue#1659) by @asalzburger, <u>no assignee</u>, updated on 2022-12-21

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

- Stale feat: port RootNTupleReader (PR#1620) by @andiwand, A no assignee, updated on 2022-12-21
- Stale feat: Python documentation (PR#1633) by @benjaminhuth, no assignee, updated on 2022-12-21
- Stale Documentation update: Core (Issue#1418) by @paulgessinger, assigned to @andiwand, updated on 2022-11-23
- Stale Documentation update: Examples (Issue#1420) by @paulgessinger, assigned to @andiwand, updated on 2022-11-23
- Stale Documentation update: How-to (core) (Issue#1422) by @paulgessinger, no assignee, updated on 2022-11-23
- Stale bug: interpolation out of bounds with ATLAS B-field map (Issue#1484) by @timadye, no assignee, updated on 2022-11-12

Stale refactor: Create and use Acts::SpacePoint as input for public interface of Seedfinder! (PR#1394) by @robertlangenberg, <u>no assignee</u>, updated on 2022-11-12

# acts-project/acts: All stale Issues / PRs III

- Stale Documentation update: Plugins (Issue#1421)
   by @paulgessinger, assigned to @paulgessinger, updated on 2022-10-22
- Stale Documentation update: FATRAS (Issue#1419) by @paulgessinger, assigned to @asalzburger, updated on 2022-10-22
- Stale Vertexing produces vertex candidates that are unreasonable (Issue#1361) by @paulgessinger, no assignee, updated on 2022-10-22
- Stale Add Primary Vertex Label to tracks (Issue#1544) by @Lucas-Borgna, <u>no assignee</u>, updated on 2022-10-22
- Stale EDM Memory usage (Issue#1516)
   by @paulgessinger, <u>no assignee</u>, updated on 2022-10-22
- Stale Documentation update: Contribution guidelines (Issue#1423) by @paulgessinger, assigned to @paulgessinger, updated on 2022-10-19
- Stale fix: B-field interpolation errors (PR#1467) by @timadye, no assignee, updated on 2022-10-12

## acts-project/acts: All stale Issues / PRs IV

- Stale feat: Enable more fine-grained digitization configuration (PR#1272) by @benjaminhuth, no assignee, updated on 2022-10-03
- Stale Monitor Floating Point Exceptions in Cl (Issue#1481) by @paulgessinger, <u>no assignee</u>, updated on 2022-10-01
- Stale Optionally have the vertex finding recalculate perigee parameters relative to consistent reference (Issue#1482)
   by @paulgessinger, no assignee, updated on 2022-10-01
- Stale Full chain vertexing with AMVF (Issue#1406) by @paulgessinger, A no assignee, updated on 2022-10-01
- Stale Documentation: hints for debugging (Issue#1463) by @timadye, no assignee, updated on 2022-09-24
- Stale Vertexing produces unexpectedly poor efficiency (Issue#1362) by @paulgessinger, <u>no assignee</u>, updated on 2022-09-20
- Stale Ambiguous perigees with low momentum (Issue#1386) by @andiwand, <u>no assignee</u>, updated on 2022-09-20

# acts-project/acts: All stale Issues / PRs V

- Stale Vertexing produces propagation errors (Issue#1345) by @paulgessinger, <u>no assignee</u>, updated on 2022-09-20
- Stale add monitoring for vertexing in physmon (Issue#1313) by @andiwand, assigned to @paulgessinger, updated on 2022-09-20
- Stale 2D r-z Magnetic Field Map Improperly Read (Issue#669) by @osbornjd, assigned to @timadye, updated on 2022-09-20
- Stale Fatras: Bethe-Heitler calculation wrong? (Issue#1437) by @asalzburger, no assignee, updated on 2022-09-20
- Stale feat: Adding unit tests for perigee propagation outside beam pipe (PR#1354) by @asalzburger, A 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

## acts-project/acts: All stale Issues / PRs VI

- 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, <u>no assignee</u>, updated on 2022-02-19

## acts-project/acts: All stale Issues / PRs VII

- Stale Add example (+test) for vertex fitting with constraints (Issue#1100) by @paulgessinger, 1 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
- O 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

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

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