

# Acts PR & Issue Recap

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# Overview

- 1 acts-project/acts  
Merged PRs
- 2 acts-project/acts  
Open PRs (non WIP)
- 3 acts-project/acts  
Issues opened since 2022-03-22
- 4 acts-project/acts  
Stale Issues and PRs
- 5 acts-project/acts  
All stale Issues and PRs

- **feat: Curvature sorting in SeedFilter** (PR#1168)  
by @LuisFelipeCoelho, merged on 2022-03-23
- **fix: Reduce memory usage of multiplication tests** (PR#1200)  
by @stephenswat, merged on 2022-03-23
- **feat: Reintroduce default bin finder constructor** (PR#1197)  
by @stephenswat, merged on 2022-03-23
- **ci: Physics performance monitoring** (PR#1193)  
by @paulgessinger, merged on 2022-03-24
- **feat: Add compatibility method to seedfinder** (PR#1198)  
by @stephenswat, merged on 2022-03-24
- **build: Add 'assert.h' override** (PR#1202)  
by @paulgessinger, merged on 2022-03-24

- **build: Download nlohmann/json zip instead of git clone** (PR#1204)  
by @paulgessinger, merged on 2022-03-24
- **feat: Introduce Exa.TrkX plugin** (PR#1151)  
by @benjaminhuth, merged on 2022-03-28
- **ci: Fix gcovr version to 5.0** (PR#1210)  
by @paulgessinger, merged on 2022-03-28
- **ci: Python fixes** (PR#1212)  
by @paulgessinger, merged on 2022-03-29
- **feat: make interaction point cut optional in seedFinder** (PR#1207)  
by @LuisFelipeCoelho, merged on 2022-03-29

## acts-project/acts: Open PRs (non WIP) I

- **feat: Custom z bin search order** (PR#1169)  
by @LuisFelipeCoelho, updated on 2022-03-29
- **feat: Gaussian Sum Filter** (PR#1134)  
by @benjaminhuth, updated on 2022-03-29
- **feat: cut to the maximum value of delta z between SPs in seedFinder** (PR#1209)  
by @LuisFelipeCoelho, updated on 2022-03-29
- **feat: Implement a new orthogonal range search seed finder** (PR#904)  
by @stephenswat, updated on 2022-03-29
- **refactor: Use enum class for MaterialUpdateStage** (PR#1205)  
by @paulgessinger, updated on 2022-03-29
- **refactor: transformCoordinates methods without InternalSpacePoint class** (PR#1173)  
by @CarloVarni, updated on 2022-03-28

- **refactor!:** Use enum class for `NavigationDirection` (PR#1206)  
by @paulgessinger, updated on 2022-03-25
- **refactor!:** Simplify `CKF SourceLinkAccessor` and make fewer assumptions (PR#1203)  
by @paulgessinger, updated on 2022-03-25
- **feat:** Adding inner and outer tube covers for disc approach descriptor (PR#1188)  
by @noemina, updated on 2022-03-24
- **perf:** Tile  $8 \times 8$  covariance matrix multiplication (PR#1181)  
by @stephenswat, updated on 2022-03-18

- **ci: Coverage job is broken with gcovr  $\geq$  5.1** (Issue#1211)  
by @paulgessinger, updated on 2022-03-29

- **python config for example chains** (Issue#1098)  
by @timadye, updated on 2022-03-27



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by @timadye, updated on 2022-03-27
- **refactor: Hard coded matrix operations** (PR#1123)  
by @paulgessinger, updated on 2022-03-10
- **feat: global chi2 fitter / GX2F** (PR#1099)  
by @r4lv, updated on 2022-02-25
- **Bug: issue on first build after DD4hep update on system with globally 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
- **Vertexing issues observed in python vertexing example** (Issue#1091)  
by @paulgessinger, updated on 2021-12-31
- **Some writers performs their writes in the destructor** (Issue#881)  
by @paulgessinger, updated on 2021-12-11
- **2D r-z Magnetic Field Map Improperly Read** (Issue#669)  
by @osbornjd, updated on 2021-12-06
- **Should seed finding tools have a higher-level interface?** (Issue#988)  
by @stephenswat, updated on 2021-11-25
- **[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