art news

7 May 2024
art stakeholder meeting

art 3.15 (released April 25)

art 3.15.00 (Latest)

🌈 **knoepfel** released this 5 days ago   · **3 commits** to develop since this release   🏷 v3_15_00   ⚬ 8bb6dcb

What's Changed

- The art suite is now C++20 only
- New product-mixing mode that allows for a random offset into an event stream ([#109](#))

Full Changelog: `v3_14_04...v3_15_00`

art 3.15 (released April 25)

art 3.15.00 — Latest

knoepfel released this 5 days ago · 3 commits to develop since this release   v3_15_00   8bb6dcb

What's Changed

- The art suite is now C++20 only   e28 specifically
- New product-mixing mode that allows for a random offset into an event stream (#109)

Full Changelog: `v3_14_04...v3_15_00`

🔷 Fermilab

art 3.15 (released April 25)

art 3.15.00 (Latest)

🌈 **knoepfel** released this 5 days ago   · **3 commits** to develop since this release   🏷 v3_15_00   ⊶ 8bb6dcb

---

What's Changed

- The art suite is now C++20 only   e28 specifically
- New product-mixing mode that allows for a random offset into an event stream ([#109](#))

Full Changelog: `v3_14_04...v3_15_00`

Corresponding art-root-io/critic version uses ROOT 6.30/06.
Corresponding Spack environment in progress (difficulties in automating this).

🎇 **Fermilab**

ROOT dictionary building issues

- art 3.15 uses C++20 concepts, which are not yet understood by ROOT's dictionary-building mechanisms (`genreflex` or `rootcling`).

- This can lead to build failures

  (e.g. https://github.com/art-framework-suite/art/issues/146)

- We have tried to restrict concept usage to lower-level libraries that arguably should not be included as dependencies in ROOT dictionaries.

- However, you may need to rearrange where headers are included for your dictionaries (i.e. move `#include` statements to implementation files).

- ROOT is aware of the limitation and intends to adjust their dictionary-generation code (timescale unknown).

🎇 Fermilab