C++ as a service — rapid software development and dynamic interoperability with Python and beyond

Interactive C++: cling and clang-repl

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# Status. Cling

\* Waiting for the release of ROOT and then we can release Cling.

#### Status. Clang-Repl

Several patches waiting a review

The goal is to provide better stability and robustness which can later cling can reuse.

# Status. InterOp

- \* Cppyy now covers all primitive datatypes. Status.
- LibInterOp is open sourced: <a href="https://github.com/compiler-research/">https://github.com/compiler-research/</a>
  InterOp
- \* Worked on simplifying CallFunc: PR 11252

#### Status. Clad

- Released v1.1
- \* ROOT's builtin derivatives to the pullback/pushforward model implemented
- Looking at how to optimize the time for generation in Cling. Investigating the current performance issue

# Status. Xeus-Clang-Repl

Working on Parameterized kernel specs proposal

#### Upstreaming Patches

- Spreadsheet tracking the progress <u>here</u>.
- \* Total amount of upstreamed cling patches 26(26+0) out of 52 upstreamable.

## CaaS Open Projects

\* Open projects are tracked in our open projects page.

# Next Meetings

Monthly Meeting — 2nd Mar, 1700 CET/0800 PDT

If you want to share your knowledge/experience with interactive C++ we can include presentations at an upcoming next meeting

