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

Interactive C++: cling and clang-repl

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Waiting for the release of ROOT and then we can release Cling.
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: https://github.com/compiler-research/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
Working on Parameterized kernel specs proposal
Upstreaming Patches

✤ Spreadsheet tracking the progress here.
✤ 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
Thank you!