

Feedback from the Analysis Community

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introduction

in the following:

- ▶ some **points from analyzers' perspective**
 - ▶ you don't have to agree with them
 - ▶ but appreciated if they are acknowledged as a view
 - ▶ analysis community is open to suggestions which keep in mind the analysis workflow
- ▶ **collection of comments** based on
 - ▶ personal impressions from interactions with analyzers
 - ▶ contributions from analysis community
- ▶ this is **not a representative survey**

**thanks for invitation
to give feedback**

git migration

- ▶ at the moment unclear situation about git migration
message about forced migration shown upon commit to git.cern.ch
- ▶ anxiousness about yet another change
- ▶ clarify **what are the plans?**
probably discussed in Peter's talk
- ▶ keep the option not to disclose all our analyses in a public repository
- ▶ worried about code partially on github and partially on gitlab,
could be avoided:
 - ▶ everything on gitlab?
 - ▶ pay github to have private repositories?
- ▶ **plea:** try to discuss the workflow before the migration!
include people from analysis (PWGs) in the discussion
- ▶ **automated merging and testing?**
combined with code review?

build system

many advantages, and we get used to them ...

- ▶ fast and tested builds
- ▶ reproducible environment allows local debugging
not yet widely known, but helpful for advanced users
- ▶ happy to see presentation during next analysis tutorial:
<https://indico.cern.ch/event/514239/>

ROOT 6

- ▶ ROOT 6 has advantages, both fundamental and practical
 - ▶ active development
 - ▶ proper C++ interpretation, including C++11, using cling
 - ▶ proper error messages
 - ▶ multithreading
 - ▶ improved python support
 - ▶ TBrowser working also on Mac OS X
 - ▶ improved STL streaming
 - ▶ templated TTreeReader
- ▶ some people are already using ROOT 6, and not much seems missing (for analysis)
- ▶ also presentation at analysis tutorial:
<https://indico.cern.ch/event/514239/>
- ▶ plans for migration? when?

analysis framework

- ▶ needs maintenance
- ▶ no dedicated developer
only limited development
- ▶ work for ROOT 6 migration?
- ▶ future of data structures, e.g. AODs or nanoAODs
who takes care?
(nanoAODs available but not widely used)
- ▶ some wishes for better support of local resources
- ▶ usage of VAF?

jupyter notebooks

- ▶ jupyter notebooks with ROOT seem very attractive for
 - ▶ documentation (for code, à la AN, ...)
 - ▶ tutorials
 - ▶ quick start, e.g. summer students
- ▶ CERN projects
 - ▶ ROOT as a service
 - ▶ integration with CERNbox
- ▶ common ALICE infrastructure?
- ▶ what's our take on this?

coding

- ▶ coverity for AliPhysics?
we don't have to be as strict as with AliRoot
but could help spotting problems
- ▶ clean up compiler warnings
and enforce no warnings (warning as error?)
- ▶ guidelines on allowed dependencies
some unintended ones introduced in AliPhysics
- ▶ more documentation of code would help
 - ▶ ROOT-style comments?
 - ▶ doxygen?
 - ▶ auxiliary documents?
- ▶ coding guidelines?

AOD filtering

(longterm)

- ▶ common support for skimmed data sets
- ▶ usage of nanoAODs?
- ▶ replace generic AODs by PWG-specific ones?
which then really contain the needed information

summary

- ▶ in preparation of this talk now:
people appear to be mostly happy
 - ▶ wish for better discussion and inclusion
concerning infrastructure changes (e.g. git migration)
 - ▶ wishes from the offline group
to the analysis community?
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Thank you!

additional slides

(from last presentation, still valid)

LEGO trains

- ▶ daily tags convenient for full train running
- ▶ also testing of trains depends on daily tags
limits turn-around times for testing
- ▶ if we have builds from the commit testing:
faster deployment possible at least for the train tests?
- ▶ provide LEGO train docker container
for local testing in full setup?

communication

- ▶ good atmosphere on the mailing list, helpful comments on the mailing list
- ▶ little information flow through PWG conveners
- ▶ role of user representative was recently discontinued communication could benefit from further discussion
 - ▶ discussion started amongst juniors
- ▶ unclear priorities who defines them actually?