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SciFi Software review

Planning

- Assign reviewers ✓ [Blake, Albert, Gloria and Marco]
- Make documentation available. Deadline: end of Nov 2017.
- Open meeting with reviewers on **January 24, 2018**. See the agenda ✓.
- Written report from reviewers. Deadline on **February 21, 2018**.
- Second (closed) meeting with reviewers.
- Review report ✓ and reply can be found on EDMS.

Scope

- **Software organisation and personpower:**
 - ◆ JIRA tasks ✓
 - ◆ milestones ✓.
- **Geometry, conditions and detector elements.**
 - ◆ Code in main repos: DDDDB ✓, SIMCOND ✓, LHCb/Det/FTDet ✓ and LHCb/Kernel/FTChannelID ✓.
 - ◆ Documentation: LHCb-INT-2016-044 ✓ and LHCb-INT-2017-027 (v3.0 for review) ✓.
- **Fibre light yield maps** (i.e. attenuation maps).
 - ◆ Code in SciFi repos: SciFiSimG4 ✓ and LightYieldMapTools ✓.
 - ◆ Documentation: LHCb-INT-2016-015, draft v1.0 for review ✓ most up-to-date version: LHCb-INT-2016-015, draft v2.1 on CDS ✓
- **Digitisation.**
 - ◆ Code in main repo: Boole/FT/FTDigitisation ✓ and LHCb/Event/FTEvent ✓.
 - ◆ Documentation: Digitisation note v1.0 for review ✓
- **Clustering and raw buffer:**
 - ◆ Code in main repos: LHCb/FT/FTDAQ ✓, LHCb/Event/FTEvent ✓ and Boole/FT/FTDigitisation ✓.
 - ◆ Documentation: Clustering note v1.0 for review ✓.
- **Test beam framework.**
 - ◆ Code in Kepler and SciFi repo: Kepler ✓.
 - ◆ Documentation: Test beam framework note v1.0 for review ✓

Aim of review

The reviewers are expected to give feedback (mainly but not exclusively based on their expertise) on

- the organisation of the software,
- the documentation,
- the coding style and standards,
- the long-term maintainability of the code (readability),
- the correctness of the simulation (is the code simulating what it is supposed to simulate),
- ...

Guidelines

- Specific comments on the code via JIRA and GitLab are very much encouraged and welcome, but are not considered as part of this review.
- Detailed comments on the documentation are very encouraged and welcome, but are not considered

as part of the review.

- The report from the reviewers should be written concise (e.g bullet points). Details can be discussed during the meeting.
- The report should aim for a global review of the state of the software.
- We welcome all recommendations for improvements in the code, improvements in the organisation, etc.

-- JeroenVanTilburg - 2017-11-16

This topic: LHCb > SciFiSoftwareReview

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