RW Lock in ROOT 6.12

ROOT

Data Analysis Framework

https://root.cern

Issues to address for 6.12

- We need to decide if we maintain or revert the RW lock
- After the merge, several problems popped up
  - Generation of hsimple crashes
    - https://epsft-jenkins.cern.ch/job/root-pullrequests-build/12313/console
  - Generation of documentation crashes
    - https://sft.its.cern.ch/jira/browse/ROOT-9123
  - Performance degradation
    - https://github.com/root-project/root/pull/1251#issuecomment-343476882
  - Dead locks in TClass tests
    - http://cdash.cern.ch/viewTest.php?onlyfailed&buildid=428233
  - Readers taking a lock does not block writers from acquiring the write-lock
- Given the short time for the release, maybe it's better to revert the changes at least in v6-12-00-patches branch