Git for GlueX, Issues
Offline Software Meeting

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other packages (non-sim-recon, non-hdds, non-hdgeant4)

- note that git repositories are small, single-purpose
- ccdb and hdgeant4 already moved to GitHub
- need policy for when public code can move
- propose and vote at offline software meeting

public repository structure: master branch, release branches, and tags

- master: all the latest and greatest stuff
  - equivalent to the trunk under svn
- release branches: branches created for new releases, including those for special purposes
  - e. g., sim-recon-2.3
- tags: specific points on release (or any) branch
  - e. g., sim-recon-2.3.2
  - corresponding tar file

suggested work flow

- other scenarios possible, but need a common end-point
- goal: topic branch off master branch in the public repository
- how to get there:
  - ▶ create local repository
    - ★ git clone https:/github.com/jeffersonlab/sim-recon.git
  - ▶ create a local topic branch
    - ★ git branch my_work
  - ▶ move to the new topic branch
    - ★ git checkout my_work
  - ▶ ... work on topic branch, make changes, add them, commit them...
  - ▶ push local topic branch to public topic branch
    - ★ git push origin my_work:new_bug_fix
    - ★ creates branch "new_bug_fix" on public repository

work flow (continued)

- how to get there (continued):
  - ▶ issue pull request on GitHub
    - ★ navigate to the branch, click on "pull request"
    - ★ creates action item on GitHub
    - ★ requests that changes on branch "new_bug_fix" be merged onto master branch on public repository
  - ▶ someone else acts on pull request on GitHub
    - ★ navigate to open pull requests
    - ★ merge in changes

Notes on this structure/workflow

- everyone needs an account on GitHub
- anyone can update the master branch
- changes should go onto topic branches, enforced only administratively

proposals

- for decision process
    - vote at offline meeting
- proposal for switch-over
    - dead-line for all svn check-ins
    - switch-over to git