

SoLID software distribution and github

Zhiwen Zhao

2018/11/20

Software distribution with container

- Official jlab common environment distribution
 - <https://hub.docker.com/r/jeffersonlab/jlabce/tags>
- SoLID simulation currently depends on JLAB_VERSION=1.3m
 - `docker run -it --rm -p 6080:6080 -p 5901:5901 jeffersonlab/jlabce:1.3m`
 - Singularity shell `–s /bin/tcsh`
`/group/solid/apps/jeffersonlab_jlabce_tag1.3m_digestsha256:a8e2ff2bd14062fb17117a4a31f7ffd52f6945d683d447a5cdb2ef5a1d41109e_20181107_s2.6.0.simg`
- SoLID can test latest JLAB_VERSION=2.3
 - `docker run -it --rm -p 6080:6080 -p 5901:5901 jeffersonlab/jlabce:2.3`
 - Singularity shell `–s /bin/tcsh`
`/group/solid/apps/jeffersonlab_jlabce_tag2.3_digestsha256:380df60645113a18f07e90ddaa64adf9a3f9ad22b0038e9020ae207a086c1113_20181003_s2.6.0.simg`
- After moving from svn to github, we can build jeffersonlab/jlabsolid based on jlabce with solid code to run all software in a single container
- This make it possible to run solid software anywhere (local machine, jlab farm, openscience grid ...) to get the same result
- More details will be updated at https://hallaweb.jlab.org/wiki/index.php/Solid_container

Svn to github conversion

- The svn location
<https://jlabsvn.jlab.org/svnroot/solid/>
the github test location
https://github.com/JeffersonLab/solid_gemc_test
the github planned location (not existing yet)
https://github.com/JeffersonLab/solid_gemc
- Codes of simulation, digitization, analysis are all under one repo "solid_gemc" which is converted from svn "solid_gemc2"
then add dir digitization to include gem and mrpc digitization code
then add dir analysis to include tracking and mrpc timing
- event generator will have individual repo
for example, something like "JeffersonLab/evgen_BHphoton" converted from svn "evgen/genTCS"
- All other stuff will be kept in SVN to keep the new repo clean.
- All repo can be controlled by a solid admin team like "halla-solid"
Individual repo can have different admin persons to approve pull request.
Use "master" branch as devel and do standard github release with tar ball as production.
Main development can be done by "fork first and submit pull request" mode.
- Freeze SVN next week and do the conversion