

Validation WG: News and Planning

Aug 7th, 2024

News

- Ready for Snakemake 8 (blocked by python version conflict with py-protobuf)
- Tracking benchmarks run over all past campaigns on eicweb, also local sim
- DEMP benchmark merged
- Jets(DIS) benchmark updated

Development progress

Physics benchmarks

- [🔗 Made changes to the Snakefile, analysis, and plotting scripts](#) ✓
#17 by Lovepreet6 was merged 2 weeks ago · Approved [🔄](#) 3 of 7 tasks

- [🔗 mirror.yaml: mirror branch delete actions to eicweb](#) ●
#16 by veprbl was merged last month · Approved

- [🔗 demp,diffractive_vm: drop use of S3RemoteProvider, stream from XRootD](#) ✓
#15 by veprbl was merged on Jul 7

- [🔗 Benchmark for Deep Exclusive Meson Production \(DEMP\) physics](#) ✓
#14 by bschmookler was merged on Jul 3 · Approved [🔄](#) 2 of 7 tasks

- [🔗 dis/analysis/jets.cxx: update from the latest code](#) ✓
#13 by veprbl was merged 3 weeks ago · Approved

Detector benchmarks

- [🔗 tracking_performances: upload debug plots as artifacts](#) ✓
#41 by veprbl was merged 2 days ago

- [🔗 fix: bench:tracking_performance: snakemake --cores 3](#) ✓
#40 by wdconinc was merged 2 days ago · Approved [🔄](#) 2 of 7 tasks

- [🔗 Modified zdc lyso analysis code.](#) ✓
#39 by JiaJunHuang120000 was merged last week · Approved [🔄](#) 2 of 7 tasks

- [🔗 ecal_gaps: use DETECTOR_CONFIG from the wildcard in eicrecon](#) ✓
#38 by veprbl was merged 2 weeks ago

- [🔗 Benchmark for low-energy photons in the ZDC LYSO](#) ✓
#37 by bschmookler was merged 2 weeks ago · Approved [🔄](#) 6 tasks

- [🔗 tracking_performance: enable running over campaigns](#) ✓
#35 by veprbl was merged last week

- [🔗 included software version](#) ✓
#34 by Simple-Shyam was merged 2 weeks ago [🔄](#) 5 tasks

- [🔗 mirror.yaml: mirror branch delete actions to eicweb](#) ✓
#33 by veprbl was merged last month · Approved

- [🔗 tracking_performances: fix for removed 7.x-specific remote](#) ✓
#32 by veprbl was merged on Jul 7

- [🔗 tracking_performances: Adjust axis extent](#) ✓
#31 by Simple-Shyam was merged last month · Approved [🔄](#) 5 tasks

- [🔗 drop use of Snakemake 7.x-specific remote functionality](#) ✓
#30 by veprbl was merged on Jul 5

- [🔗 benchmarks/tracking_performances: implement CI](#) ✓
#29 by veprbl was merged on Jul 6

Development status

Physics benchmarks

 **Lambda zdc** ●

#19 opened 2 days ago by sebouh137  4 of 7 tasks

 **Semi-coherent zdc benchmark** ✓

#18 opened 5 days ago by JiaJunHuang120000  2 of 7 tasks

Detector benchmarks

 **treewide: use `set -m` and `exec` to avoid lingering ddsim processes** ✓

#42 opened 2 days ago by veprbl

 **snakemake.yml: allow using S3 (XRootD is down sometimes)** ✓

#36 opened 2 weeks ago by veprbl

- #18 needs some help to figure out on-the-fly HepMC file generation
- #19 needs to be fixed to run properly on eicweb
- #42 could use a review
- #36 is ready

Expected developments

- Roman Pots ML training
- Calorimetry PID benchmark
- Calorimetry PID ML training
- Integration of CI with image browser

(Wouter) Discussion item: What's a reasonable duration for a benchmark pipeline. When do we parallelize over serialize?