

# Validation WG: Status and Priorities

July 3rd, 2024

# Status: Infrastructure

- Intermittent job failures on EICweb:

```
Will be retried in 3s ...
```

```
Using Docker executor with image eicweb.phy.anl.gov:4567/containers/eic_container/eic_xl:pipeline-97102-default ...
```

```
ERROR: Preparation failed: adding cache volume: set volume permissions: running permission container "378a1983c657253ccfcb916c04e189a80dd91fa45e7344e2c59644122797275c" for volume "runner-twswh3hw-project-399-concurrent-9-cache-3c3f060a0374fc8bc39395164f415a70": starting permission container: Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running? (linux_set.go:105:120s)
```

- Due to networking issue, according to Sylvester
- Manual restarts require eicweb access and take lots of time
- Hack together an external watchdog that automatically detects and restarts via GitLab API?
- Container builds had no issues lately!
- nvidia-smi job won't start:

```
ERROR: Job failed (system failure): prepare environment: Error response from daemon: failed to create task for container: failed to create shim task: OCI run time create failed: runc create failed: unable to start container process: error during container init: error running hook #0: error running hook: exit status 1, stdout: , stderr: Auto-detected mode as 'legacy'
```

```
nvidia-container-cli: initialization error: nvidia error: driver/library version mismatch: unknown (exec.go:78:0s). Check https://docs.gitlab.com/runner/shells/index.html#shell-profile-loading for more information
```

# Status: Ongoing Development


## Detector benchmarks:

 **benchmarks/tracking\_performances: implement CI**

#29 opened 4 days ago by veprbl

 **Add lowq2 benchmarks**

#22 opened on May 16 by simonge

 **Low q2 training**

#21 opened on May 7 by simonge  1 of 4 tasks

 **Add support for snakemake 8.x**

#15 opened on Mar 27 by veprbl

 **adding LFHCal benchmarks in benchmarks/forward\_lfhcal**

#12 opened on Feb 13 by steinber  6 tasks

 **Add Simple Cluster/Hit Analysis to BHCAL Benchmarks**

#11 opened on Feb 1 by ruse-traveler • Draft  2 of 7 tasks

 **Draft: Train neural network for roman pots momentum reconstruction**

#10 opened on Jan 10 by rahmans1 • Draft  1 of 7 tasks

## Physics benchmarks


 **Repository should follow the PWG structure**

#11 opened 3 weeks ago by veprbl

 **Benchmark for Deep Exclusive Meson Production (DEMP) physics** ✓

#14 opened 5 minutes ago by bschmookler  2 of 7 tasks

New!

 **dis/analysis/jets.cxx: update from the latest code** ✓

#13 opened 2 weeks ago by veprbl • Approved

 **add benchmarks/u\_rho** ✗

#3 opened on Jan 13 by zsweger • Draft  2 of 7 tasks

## Migration to Snakemake 8

- drop use of all remote storage Snakemake incompatible features to support both 7 and 8 (get files with xrdcp, TFile, minio-client, ...)

# Priorities

1. Automated campaign analysis
  - a. MVP is a setup that analyses campaigns, e.g. for the last half year
2. Presentation UI
  - a. mainly the missing integration with GitHub and eicweb
3. Adding additional benchmarks
  - a. benchmarks that capture recently brought up issues
  - b. extend set of generic calorimetry and generic tracking benchmarks
  - c. soliciting contribution of ongoing codes