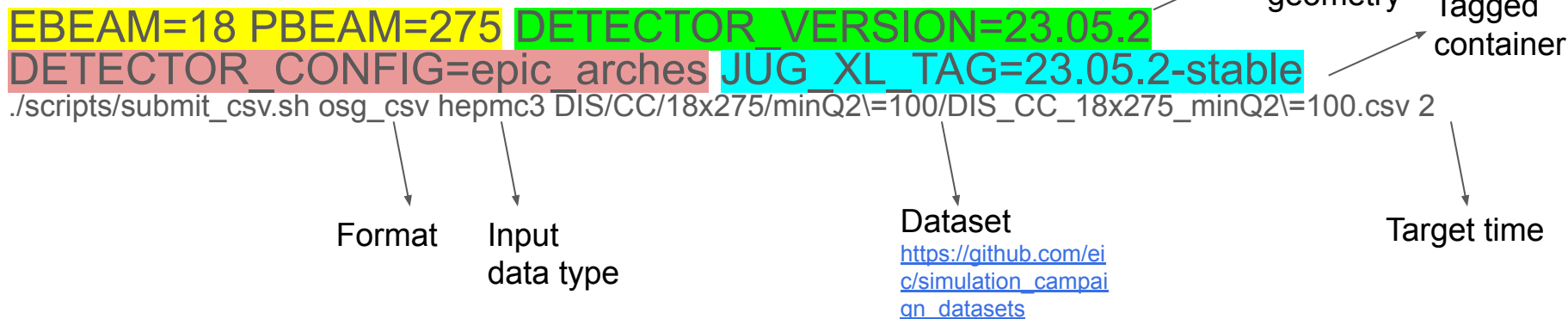


# General Updates for May 2023 Train

Sakib Rahman  
1 June 2023

# Conductor's Log Book

- Created account on Open Science Grid and subscribed to EIC project
- Connected to osg login node `login.collab.ci-connect.net`
- Cloned [https://github.com/eic/job\\_submission\\_condor](https://github.com/eic/job_submission_condor)
- Within the job submission folder the following script is executed for each dataset provided in the form of csv files

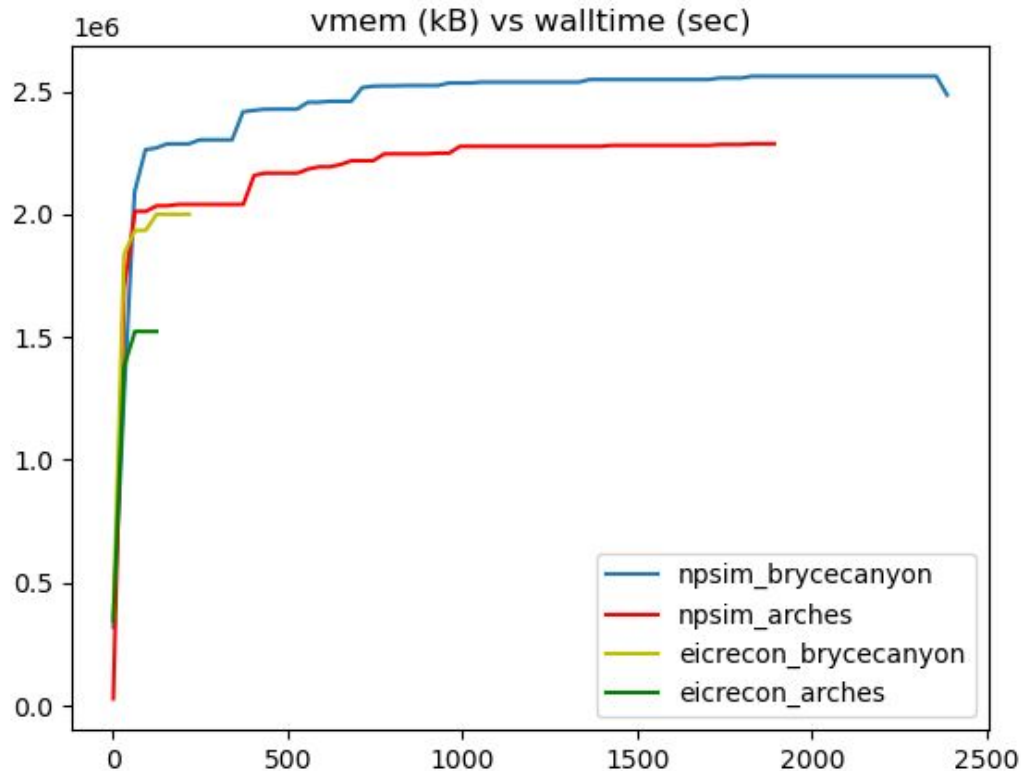


- Jobs when submitted goes into idle queue before running. Failed jobs go into hold queue. Use `hold_review_and_release.sh` to monitor reasons for common job failures and resubmit. To release all jobs on hold at once use `condor_release <username>`
- Running both `epic_arches` and `epic_bryce canyon` in May train. Should be the case until we converge to a single config.

# Conductor's Log Book

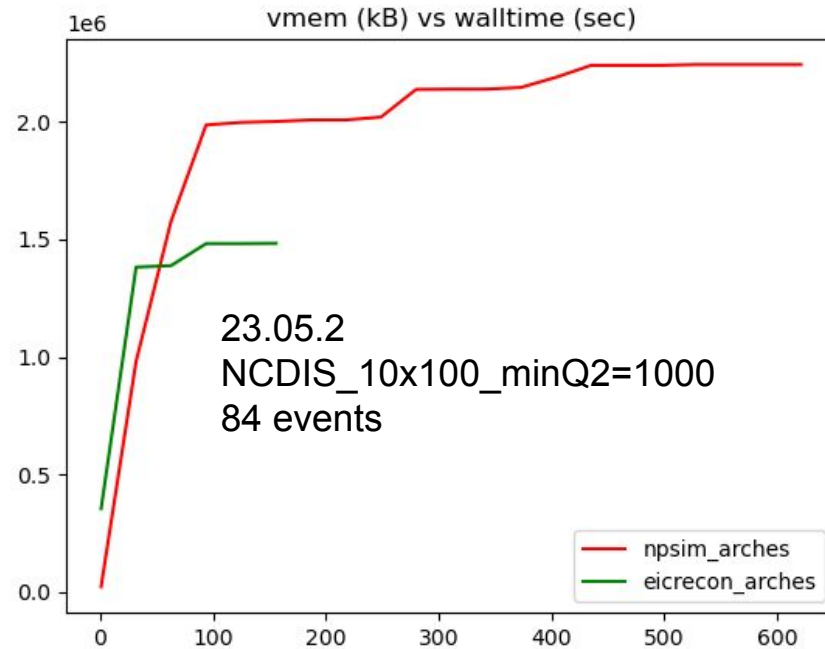
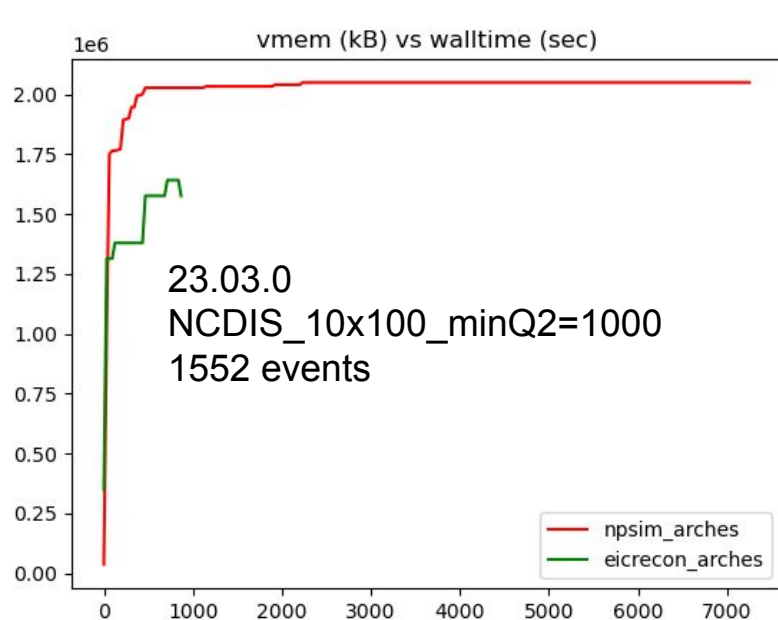
- To view the output from the campaign in the S3 storage:
  - Install minio client
  - Do this ONCE: `./mc config host add S3 https://eics3.sdcc.bnl.gov:9000 eicS3read eicS3read`
  - Then you can use `./mc ls S3/eic2test/EPIC` or `./mc tree S3/eic2test/EPIC` to view content
  - Xrootd mirroring to jlab started. Location: `/work/eic2/EPIC`
- For the majority of the jobs we only store RECO output. For a small number of datasets, we are storing FULL sim results (roughly 10000 events). So, far we have been submitting duplicate jobs with a modified template that stores full sim output. Deprioritize using `condor_prio` command after first 200 jobs in the array are queued in RUN status. Then kill the jobs when the RUN jobs reach DONE status.
- Analyze process monitor logs (<https://github.com/HSF/prmon>) to understand variation in resource usage between campaigns
- [Web summary page under construction](#)
- [Documentation under construction](#)

# Brycecanyon vs Arches in 23.05.2



NCDIS\_18x275\_minQ2=1  
191 events

## Arches in 23.03.0 vs Arches in 23.05.2



Need to consider node variability

# Default Data Sets

Reco output should be available for epic\_brycecanyon for the following on S3.

DIS (pythia8):

NC

CC

EXCLUSIVE:

DEMP

DVCS\_ABCONV

TCS\_ABCOV

Only ran DIS NC for epic\_arches

```
jug_xl+> rahmans1@login:~$ ~/bin/mc tree S3/eicetest/EPIC/FULL/23.05.2
S3/eicetest/EPIC/FULL/23.05.2
├── epic_arches
│   ├── DIS
│   │   └── NC
│   │       ├── 10x100
│   │       │   ├── minQ2=10
│   │       │   └── minQ2=100
│   │       ├── 18x275
│   │       │   ├── minQ2=10
│   │       │   └── minQ2=100
│   │       └── 5x41
│   │           ├── minQ2=10
│   │           └── minQ2=100
└── epic_brycecanyon
    ├── DIS
    │   └── NC
    │       ├── 10x100
    │       │   ├── minQ2=10
    │       │   └── minQ2=100
    │       ├── 18x275
    │       │   ├── minQ2=10
    │       │   └── minQ2=100
    │       └── 5x41
    │           ├── minQ2=10
    │           └── minQ2=100
```

# Backgrounds

Just 1 merged background file available. Contains beamgas and synchrotron radiation.  
Queued today. Output should be available at some point tomorrow on S3.

```
jug_xl+> rahmans1@login:~$ ~/bin/mc ls S3/eictest/EPIC/EVGEN/BACKGROUNDS
[2023-05-01 13:41:29 CDT] 17GiB STANDARD bgmerged_ep_noradcor.10x100_q2_10_100_run001_n_10000.hepmc
[2023-06-01 12:23:19 CDT] 0B BEAMGAS/
[2023-06-01 12:23:19 CDT] 0B SYNRAD/
```