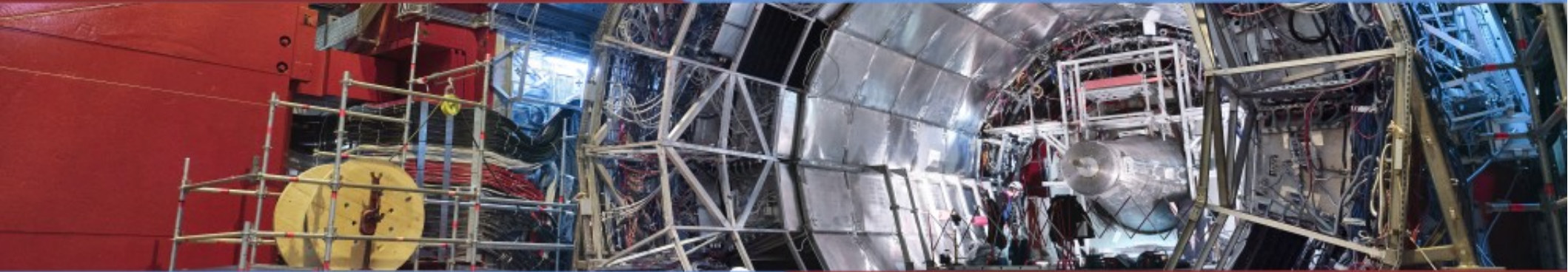


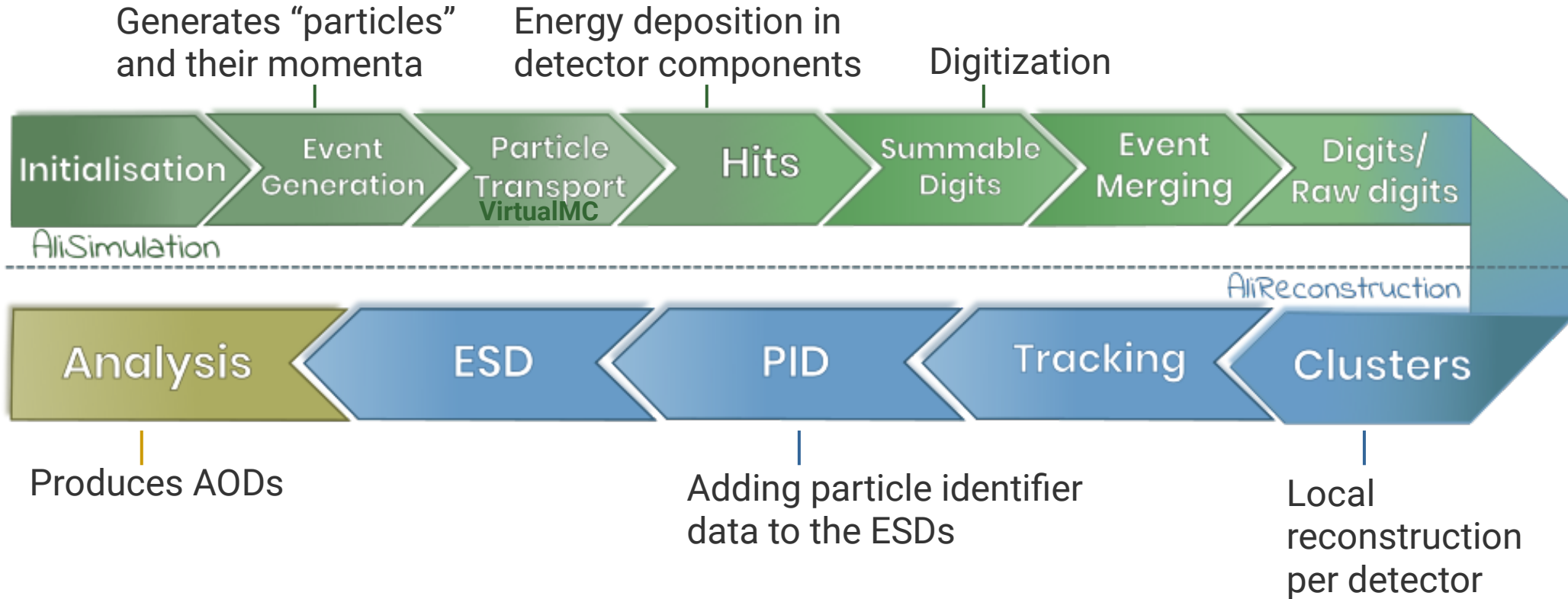
# Readiness of WL benchmark candidates: ALICE



Olga Datskova, Costin Grigoras  
presented on 08/10/2019

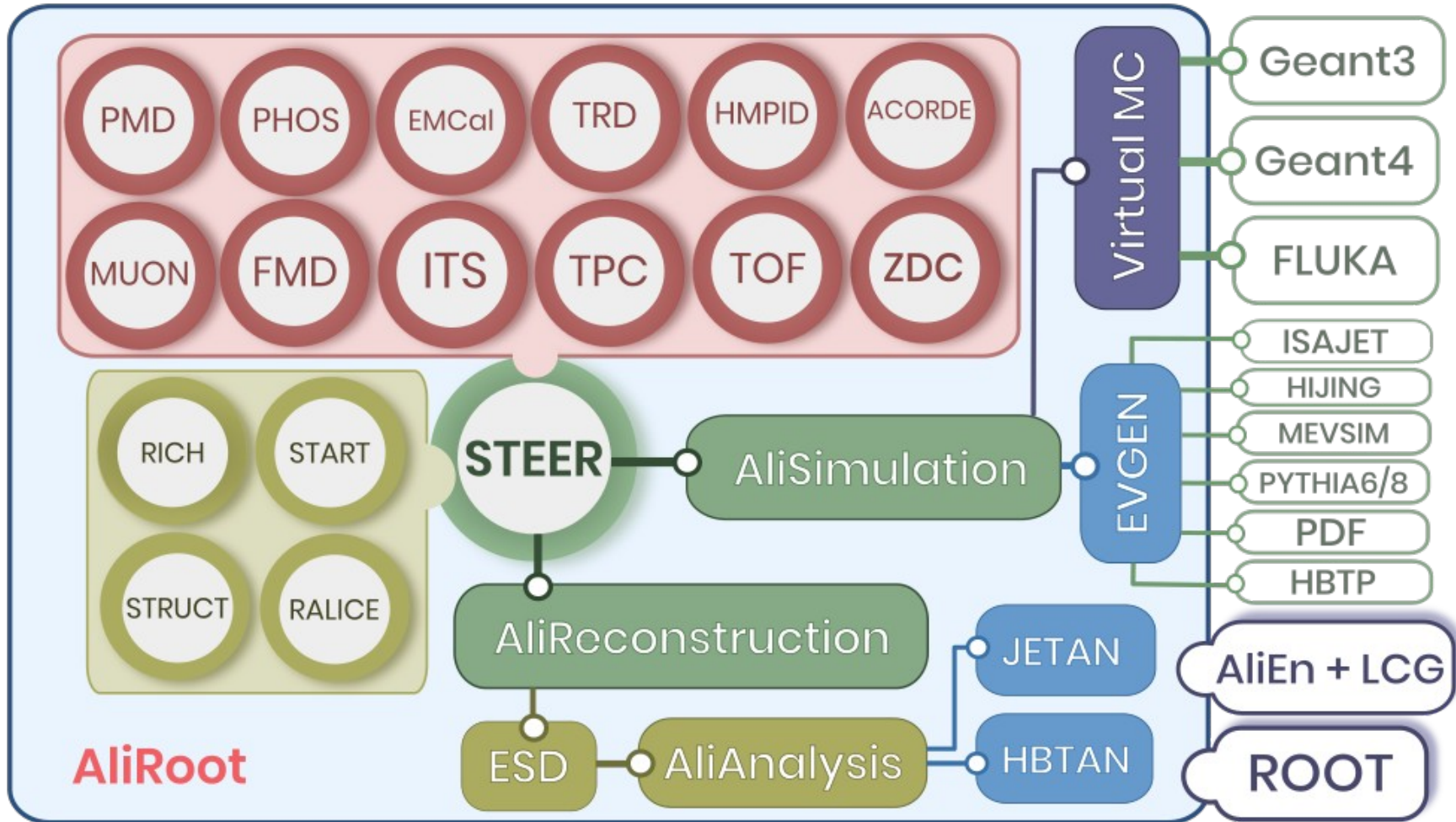
<https://indico.cern.ch/event/739897/>

# Production Workflow



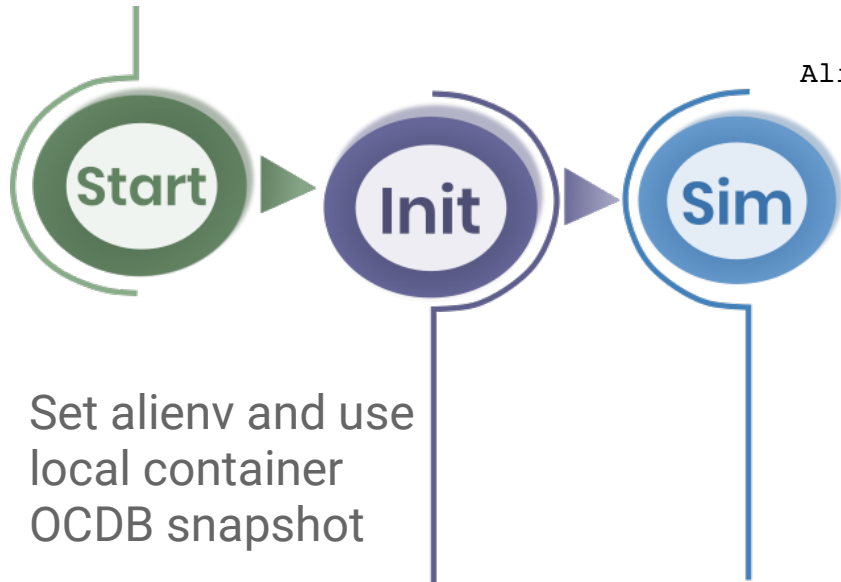
Modular design with single-threaded single-process event processing.

# Software Stack



# alice-gen-sim

```
~$ cd /bmk/alice-gen-sim  
~$ ./alice-gen-sim-bmk.sh -t1 -e5 -c4
```



## AliSimulation

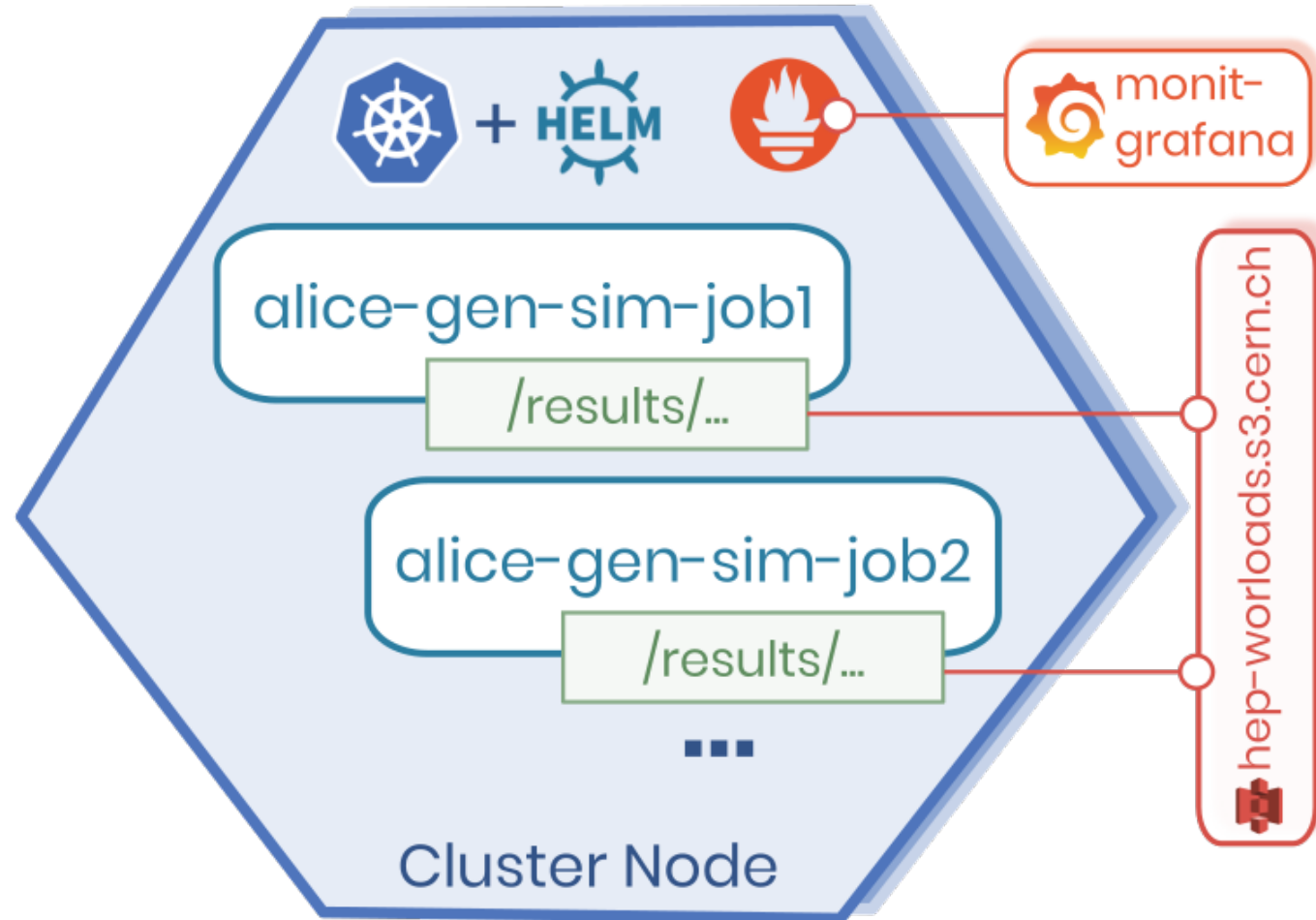
```
Run R:93.4480s C:62.2600s (1 slices)  
RunDigitization R:9.1831s C:7.9500s (1 slices)  
RunHitsDigitization R:17.5393s C:14.4800s (1 slices)  
RunSDigitization  
  R:8.8904s C:7.4700s (1 slices)  
  creating summable digits for AD R:7.6170s C:6.9600s (1 slices)  
  creating summable digits for EMCAL R:0.0655s C:0.0100s (1 slices)  
  creating summable digits for FMD R:0.3766s C:0.0400s (1 slices)  
  creating summable digits for MUON R:0.0164s C:0.0100s (1 slices)  
  creating summable digits for PHOS R:0.0235s C:0.0000s (1 slices)  
  creating summable digits for PMD R:0.0551s C:0.0400s (1 slices)  
  creating summable digits for T0 R:0.0000s C:0.0000s (1 slices)  
  creating summable digits for TOF R:0.3128s C:0.2900s (1 slices)  
  creating summable digits for TRD R:0.0544s C:0.0400s (1 slices)  
  creating summable digits for VZERO R:0.0425s C:0.0100s (1 slices)  
RunSimulation R:39.6803s C:22.6200s (1 slices)  
RunTrigger R:0.3844s C:0.3600s (1 slices)
```

# Testing Setup

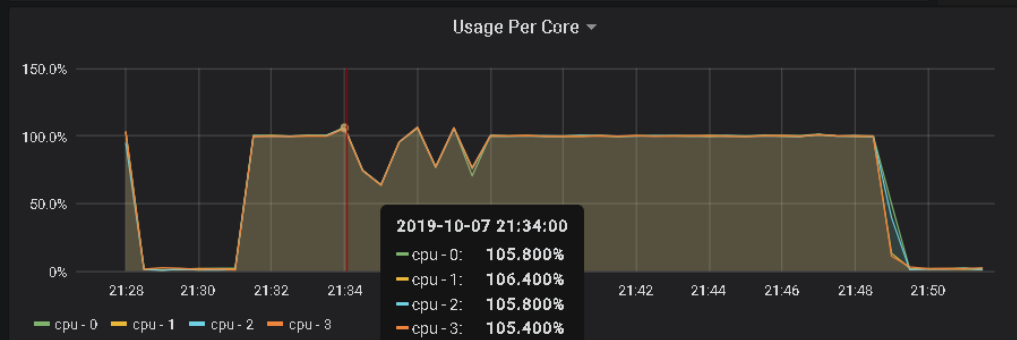
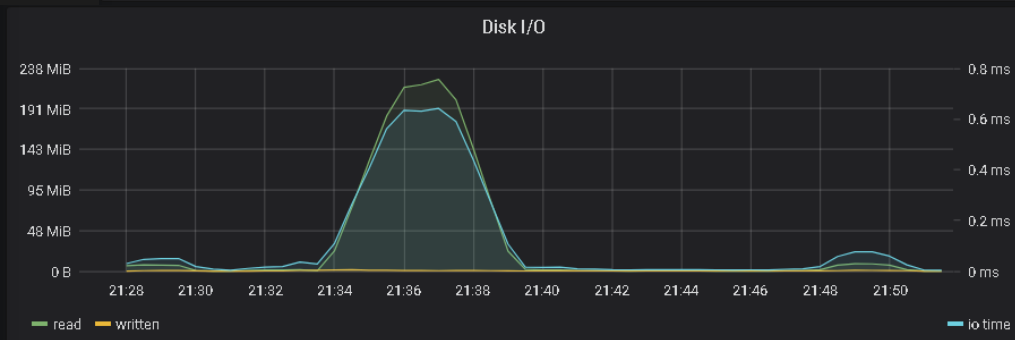
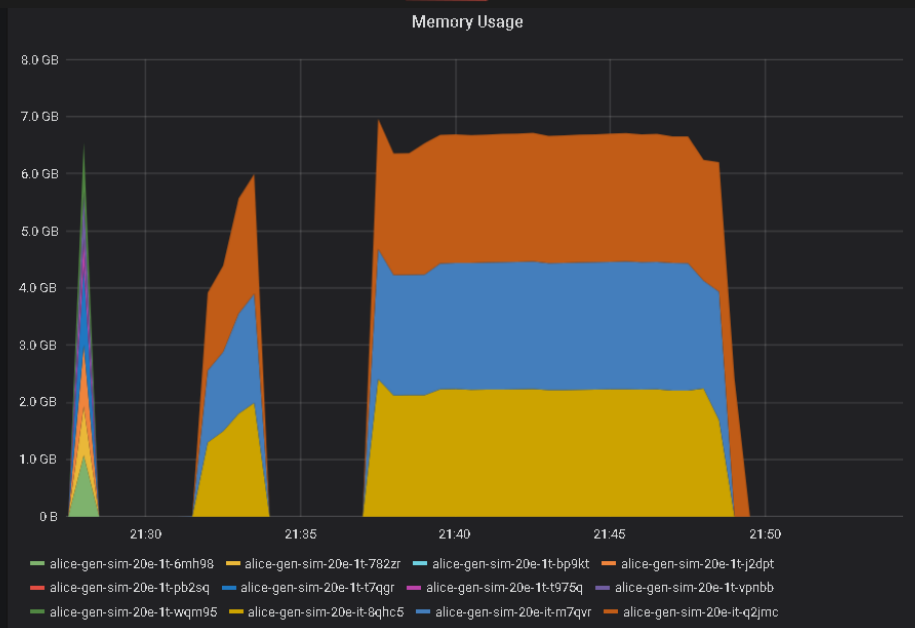
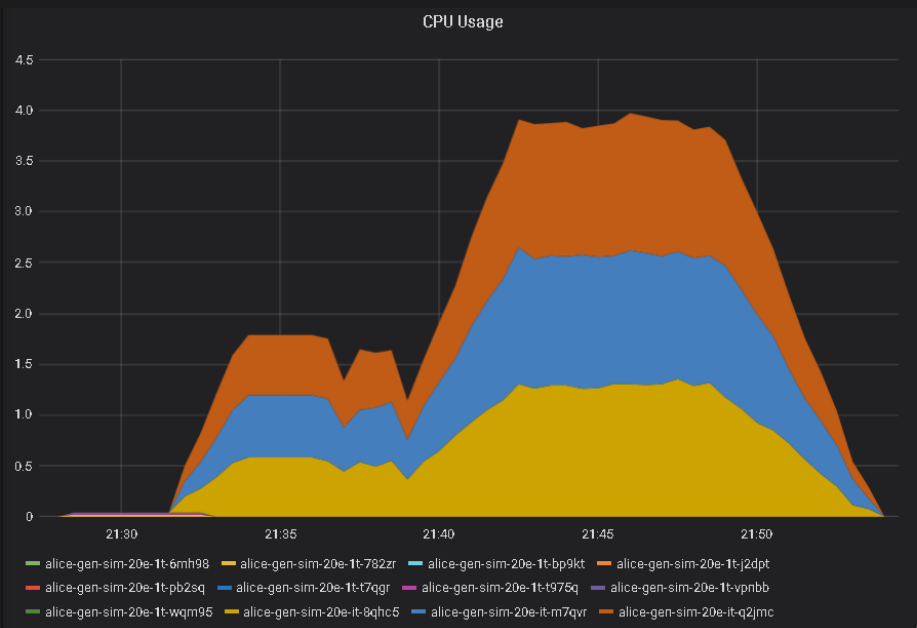
Approach to investigate failing workloads (20-25%) and spread.

Retain all logging and output information.

Provider-neutral deployment

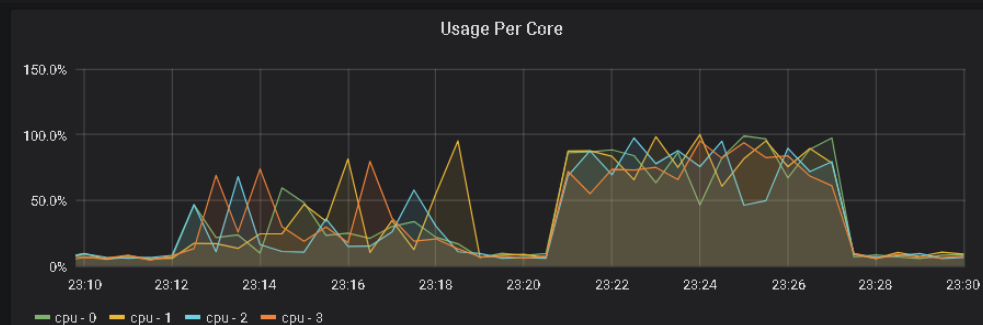
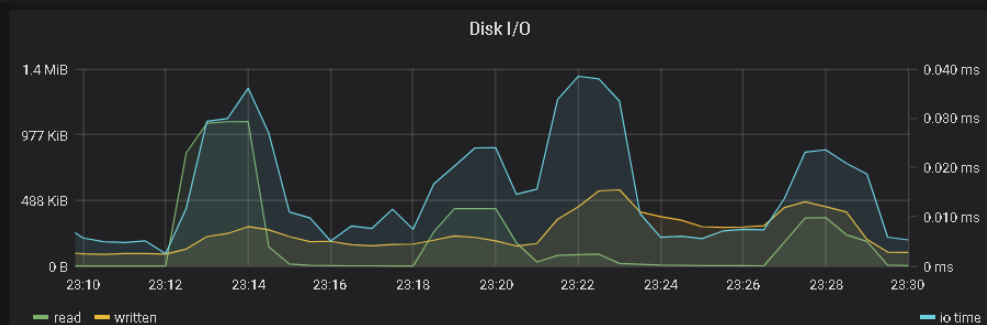
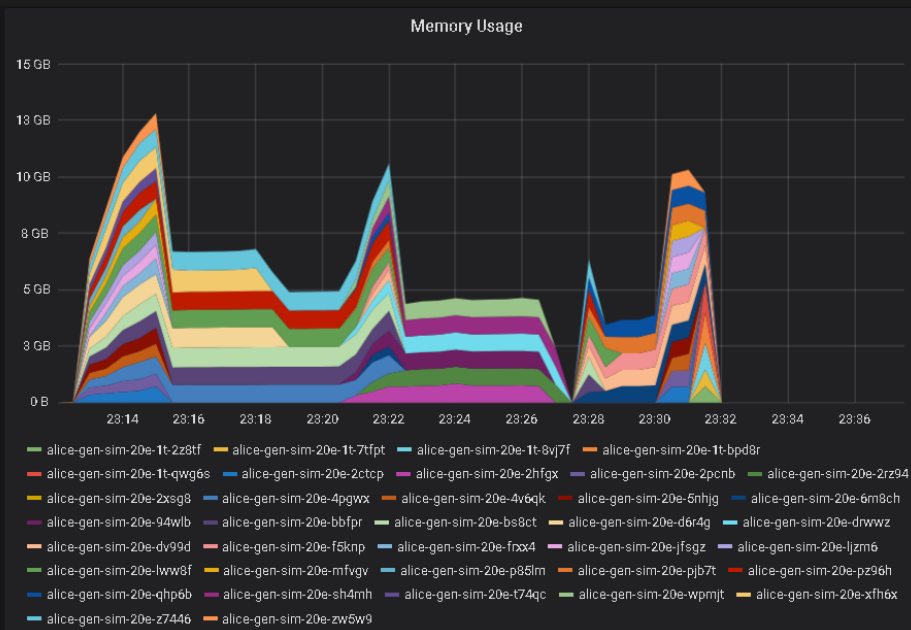
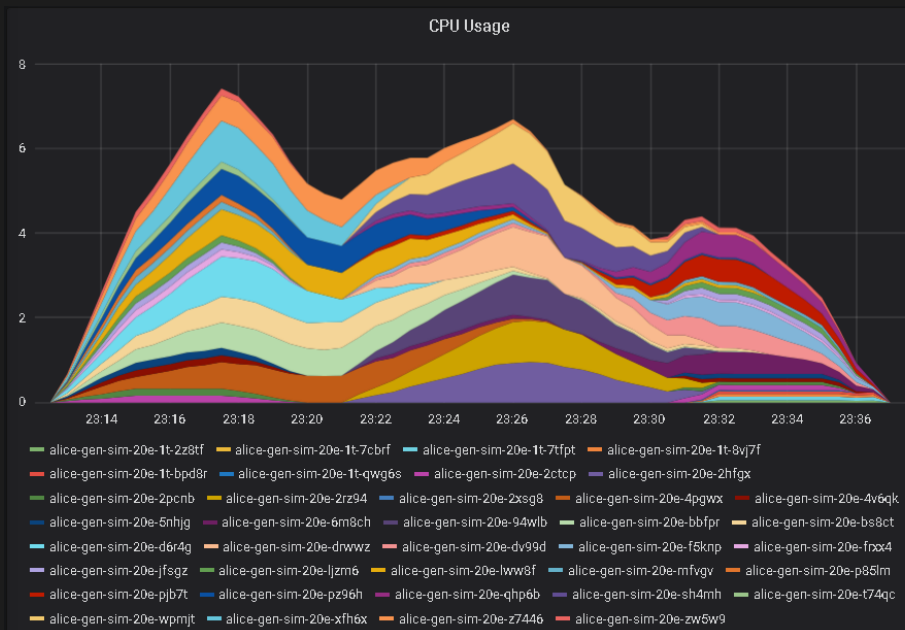


# NCOPIES = nproc

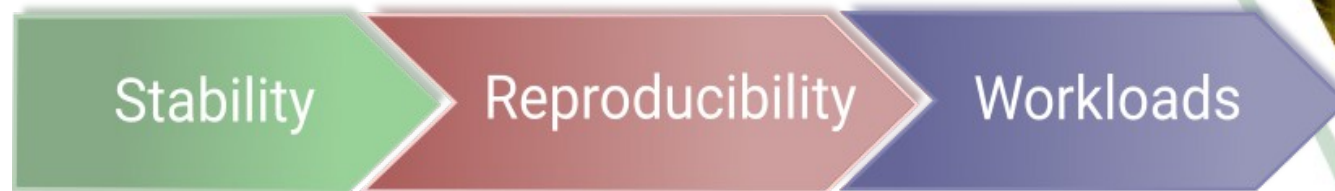


# NCOPIES = 1

20 jobs



# Ongoing Work...



Fix

**BMK-218:**  
crashes  
in gen-sim

**BMK-60:** spread  
in gen-sim results

**BMK-90:** split  
gen-sim, add reco

Improve

Testing setup  
with alerts and  
log processing

Scheduled CI/CD  
pipelines for  
running workloads

Update AliRoot  
versions  
(CC7 as base?)

