

Bookkeeping: A new logbook for the ALICE experiment



George-Cristian Raduta¹, Martin Boulais¹, Jik Huijberts²

¹ALICE CERN, ²Amsterdam University of Applied Sciences

Fill # 8686 STABLE BEAM

Stable beams start: 29/04/2023, 20:16:31
Stable beams end: 30/04/2023, 05:01:13
Beams Duration: 08:44:42

Scheme name: 25ns_399b_386_204_268_128bpl_7in_hybrid_3INDIV_bs250ns

Statistics

Fill Efficiency: 88.22%
Mean run duration: 01:55:43

Runs

Total: 6
Per quality: bad: 2 good: 4

Run	Detectors	Tags	Fill No.	LHC Period	Start	Stop	Since prev.	Trg V...	Defin...	Duration	Environment ID	Quality	EPN	FLP	Dat	DCI	EPH	Topology Full
535012	13	HMP,MCH,MD,TPC...	8686	LHC2...	29/04/2023 20:19:38	29/04/2023 20:20:07			CTP	PHYS...	2eyUAF4819	bad	13	19	Cr	Cr		(hash, default, production)...

Log Tree

EPN 152 show abnormal behavior

EPN 152 didn't send any TF

EPN 152 show abnormal behavior

EPN crash already reported in this log entry

Re: EPN 152 show abnormal behavior

There is nothing "abnormal" in epn152. It's just a QC process that died because of a processing error

```

    "gc-task-EMC-NewTask_reco
    stderr: terminate called after throwing an instance of 'o2::emcal::InvalidCellIDException'
  
```

Please try to use a terminology with more focused content. If microsoft word crashes on your mac i doubt you would bring it to apple service claiming an abnormal behaviour.

On the spot Runs and Fills statistics

Instant global and individual statistics about the system performances to help improve the overall efficiency of the experiment

Automatic End-of-Shift (EOS)

Reports are generated automatically for the shifter by gathering information on:

- Runs and Environments deployed
- Encountered issues during the shift
- LHC Beam Flow

Why Bookkeeping?

Scientific experiments, such as ALICE, need to have a constant, real-time overview of their configuration. This is critical to analyze the data, reproduce the experiments in the same conditions, compute the efficiency or simply catch, understand and solve errors. Moreover, the collaborators working on the experiment need a way to be notified and keep track of all the framework changes.

Automated Logs and Notifications

Automatic entries from O² components on their state will trigger notifications for users and groups on emails and chat application

System State and Configuration

Keeps track of the experiment's activities and provides a history state to the users with respect to:

- Environments states transitions
- Runs states and configurations

End of shift report - ECS - 01/05/2023 Afternoon

Shifter name: George Raduta
Trainee name:

Issues during the shift

- [HMPD, ECS Shifter] - HMP flp out of sync at start of PHYSICS run
- [QC, EMC, PDR, ECS Shifter] - Re: Re: EMC qc task crash during PHYSICS run - Call EMC on-call
- [EPN, ECS Shifter] - EPN 152 show abnormal behavior
- [QC, EMC, PDR, EPN, ECS Shifter] - Re: Re: EPN 152 show abnormal behavior
- [QC, EMC, PDR, EPN, ECS Shifter] - Re: Re: EPN 152 show abnormal behavior
- [PDR, EPN, ECS Shifter] - EPN 152
- [EMC, PDR, EPN, ECS Shifter] - Re: Re: EPN 152 show abnormal behavior
- [HMPD, ECS Shifter] - HMP flp out of sync at start of PHYSICS run

Environments & runs

Log Tree

End of shift report - ECS - 01/05/2023 Morning

shifter: Alice User One
trainee: -

Issues during the shift

- [PDR, ECS Shifter] - Re: Re: Strange structures in TF Buffer utilization per EPN110
- [EPN, ECS Shifter] - Re: Re: Strange behavior in TimeFrame Buffer utilization per EPN in run 535545
- [TPC, PDR, RC, EPN, ECS Shifter] - Re: Re: GPU-Reconstruction - DPL Issue
- [TPC, PDR, RC, EPN, ECS Shifter] - Re: Re: GPU-Reconstruction - DPL Issue
- [TPC, PDR, RC, EPN, ECS Shifter] - Re: Re: GPU-Reconstruction - DPL Issue
- [TPC, PDR, RC, EPN, ECS Shifter] - Re: Re: GPU-Reconstruction - DPL Issue
- [TPC, PDR, RC, EPN, ECS Shifter] - Re: Re: GPU-Reconstruction - DPL Issue
- [TPC, PDR, RC, EPN, ECS Shifter] - Re: Re: GPU-Reconstruction - DPL Issue
- [QC, EMC, PDR, ECS Shifter] - EMC qc task crash during PHYSICS run - Call EMC on-call
- [QC, EMC, PDR, ECS Shifter] - Re: EMC qc task crash during PHYSICS run - Call EMC on-call
- [QC, EMC, PDR, ECS Shifter] - Re: EMC qc task crash during PHYSICS run - Call EMC on-call
- [QC, EMC, PDR, ECS Shifter] - Re: EMC qc task crash during PHYSICS run - Call EMC on-call
- [PDR, ECS Shifter] - Spikes in TimeFrame Buffer plot during PHYSICS run

LHC

- 07:00 NO BEAM
- 08:13 CYCLING
- 09:05 SETUP
- 09:14 INJECTION PROBE BEAM
- 09:24 INJECTION PHYSICS BEAM
- 10:00 PREPARE RAMP
- 10:12 RAMP

Environment 2eyWLR4KxFT DESTROYED

Created at 29/04/2023, 20:46:50

History

STANDBY	DEPLOYED	CONFIGURED	RUNNING	DESTROYED
at 29/04/2023 20:46:50	at 29/04/2023 20:47:21	at 29/04/2023 20:50:45	at 29/04/2023 20:52:11	at 29/04/2023 21:55:16

Runs

Run #535517

Detectors: CPV, FDD, FTO, FVO, HMP, ITS, LHC Data, MCH, MET, MID, PHS, TOF, TPC, TRD

Fill number: 8686
Stable beams start: 29/04/2023, 20:16:31
Stable beams end: 30/04/2023, 05:01:13
Beams Duration: 08:44:42
Beam Type: PROTON - PROTON
Scheme: 25ns_399b_386_204_268_128bpl_7in_hybrid_3INDIV_bs250ns
name: ALICE Dipole Current: 5999.06
ALICE Dipole Polarity: POSITIVE
ALICE L3 Current: 29999.9
ALICE L3 Polarity: POSITIVE
LHC Beam Energy: 07974 GeV
LHC Beam Mode: STABLE BEAMS
LHC Data Star: 1
LHC Period: LHC23g

Trigger Value: CTP
PDR Configuration Option: Repository hash
PDR Topology Description Library File: production/production.desc
PDR Workflow Parameters: QC,CALIB,GPU,CTF,EVENT,DISPLAY
PDR Beam Type: pp
TFB DD Mode: processing-disk
Data Distribution (FLP): On
DCS: On
EPN: On
Topology: (hash, default, production/production.desc, synchronous-workflow-
Topology Full Name: callib

