

EUDAQ(2) status and prospects © DESY

AIDA-2020 Final Annual Meeting 28/04/2020



EUDAQ2

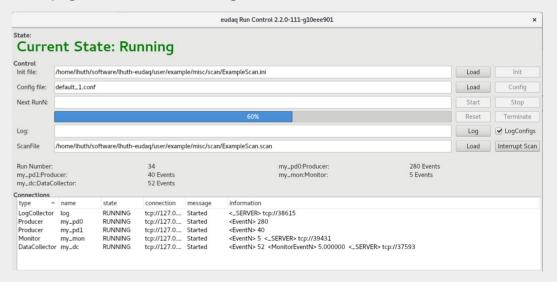


EUDAQ2 Status

- EUDAQ2 runs stable and reliable since more than a year
- Reference paper: https://iopscience.iop.org/article/10.1088/1748-0221/14/10/P10033
- Currently at tagged version 2.4.2
- Provided producers:
 - AIDA/EUDET TLU
 - EUDET telescopes
 - PI-Stages
 - TimePix3
 - Caribou
- EUDAQ2 becomes more and more popular:
 - Aidastrip (Lycoris)
 - CALICE
 - CLIC (Caribou system)
 - ItK Strip
 - Mu3e
 - TOTEM
 - ATLAS BCM/RD42
- ...
- Limited number of pull request
 - → Need to ensure that we do not diverge too much
 - → Please open pull requests if you enhanced EUDAQ
- We keep the software currently in an as is state, but are open to changes on request
- We need to improve incorporating changes
- Do we need to formalize EUDAQ2 a bit further? Collaboration, group with responsibilities, clear assignments?
- How to proceed with EUDAQ1.XX developments?

EUDAQ2 @ DESY

- Baseline DAQ system for our telescopes (DURANTA/DATURA and AZALEA (borrowed from CERN))
- Until the end of the year EUDAQ1, EUDAQ2 and both TLU versions are supported
- Starting 2021 we will stop supporting the EUDET-TLU as well as EUDAQ1
 - → This requires a higher availability of AIDA-TLUs
 - → We will not remove the hardware, usage on own risk
- DESY will stay committed to support EUDAQ2
- Trying to hire additional effort right now



AIDA-TLU Production @ DESY



- We made a cost estimate last autumn
- Production time (Fully assembled and tested) ~ 3 month
- Would most likely start with 10 pieces
 - → More if there are a high number of requests
- Would like to sell them without making significant money
- Waiting for green light from David (testing of the updated version)

Quantity	Material/ piece	Production/ piece	Docu & CE	Costs/ total	Costs/ piece
1	1982	2562	850	5394	5394
5	1754	987	850	14555	2911
10	1704	808	850	25970	2597
20*	1650	750	850	48850	2443

Autumn 2019, CE certificate (3k EUR) additionally required