

PSI Center for Scientific Computing,
Theory and Data

EIDO Update

22 July 2024

SLS

BEC rollout

- Debye / NIDAQ continues
- cSAXS training ongoing

BEC

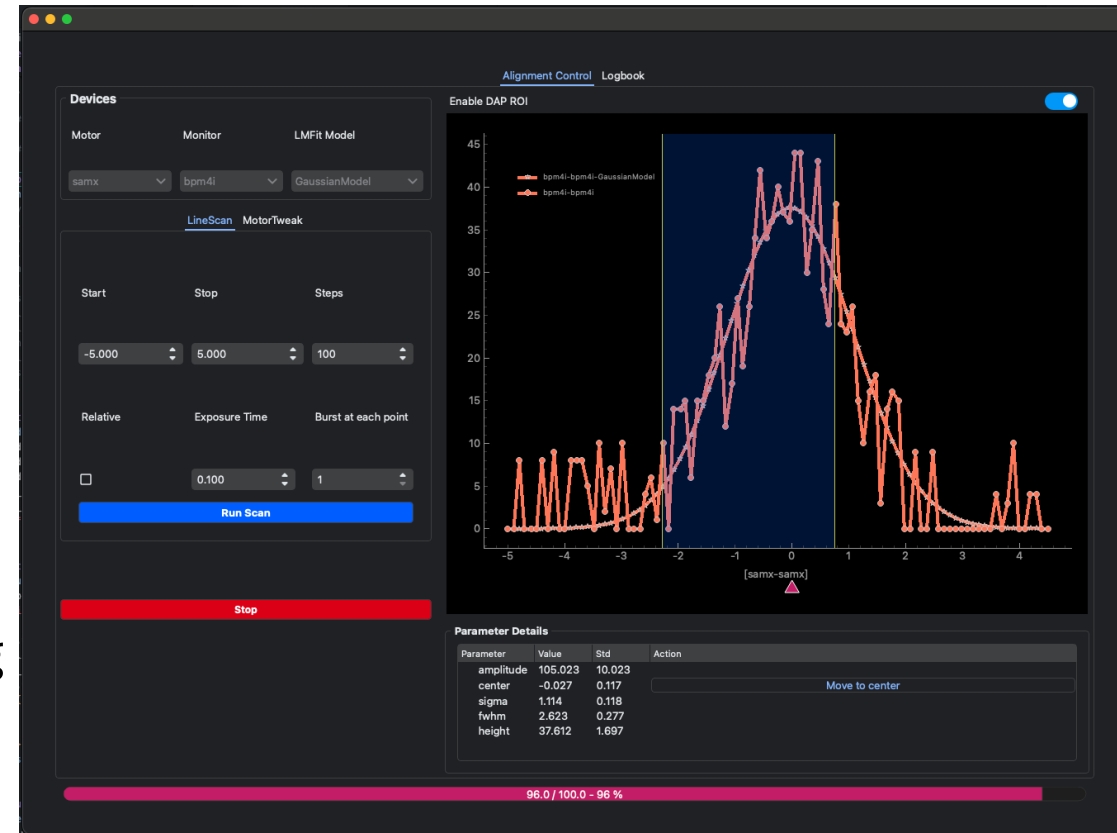
BEC Core

- blissdata integration
- Improvements and minor bug fixes



BEC Widgets

- Dedicated alignment GUI to assist BL commissioning
- Feedback and requests from BLs
- Refactoring and improvements to the code base



SwissFEL

sf-daq (Data Acquisition)

- Version change for 3 (actually 2) detectors:
 - Version is part of the detector name.
 - Search/replace in 4 repos with dozens of occurrences. (needs simplification)
 - Found and removed code referencing historic versions.
- Collected all git repos into one gitlab group.
- Deployment needs some love ...

- JF06T08V04 -> JF06T08V05
- JF06T32V04 -> JF06T32V05
- JF16T03V01 -> JF16T03V02

dap (Detector Analysis Pipeline)

- Completed first round of refactor/rewrite/cleanup.
- Was one function of 500 lines. Now broken apart into steps.
- Removed several instances of needless copying of the image and mask data.
- Need to test if results are the same and performance is better...

```
.#.in.case.of.further.modification.with.the.mask,.make.a.ne  
.maskPr.=.np.copy(pixel_mask_pf)  
  
.peak_list_x,.peak_list_y,.peak_list_value.=.peakfinder_8(  
....max_num_peaks,  
....d.astype(np.float32),  
....maskPr.astype(np.int8),
```