

# Status of the Calibration and Alignment Framework at the Belle II Experiment

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# C++ Framework

- **C++ classes built upon the Belle II software framework.**
- **Collector Module:**
  - Produces ntuples/histograms/etc from Belle II event data
  - Data separated into IoVs
  - Used as input to algorithm step
- **Algorithm Class:**
  - Reads data for a range of IoVs
  - Produces constants and saves to local database payloads
  - Can request iteration of collector step

# Python Framework

- **Created a user friendly interface that developers can call from their normal steering files.**
- **Features:**
  - Can submit collector step to local multiprocessing or batch systems.
  - Define dependencies of calibrations on one another → pass constants to each subsequent step
  - Uses an explicit FSM framework to control processing flow and logging
- **Should allow the future automation framework and developers to run nearly the same code**