INTT Software Update

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Updates to coresoftware

- https://github.com/sPHENIX-Collaboration/coresoftware/tree/master/offline/packages/intt

- Key updates:

  - InttFelixMap.h/cc

    - Hardcoded Felix channel mapping to be used in online/offline analysis

  - InttDeadMapHelper.h/cc

    - Draft of helper class for dead channel analysis

    - Made obsolete by improved standalone macro

Updates to calibraions

- https://github.com/sPHENIX-Collaboration/calibrations/tree/master/Tracking/INTT/macros

- https://github.com/josephbertaux/calibrations/tree/master/Tracking/INTT/macros
    - (Changes have not been pulled to sPHENIX yet, but my branch is up to date)

- Key updates:
    - InttFelixMappingExample.C
        - Demonstrates usage of the shared library in coresoftware to retrieve barrel/layer/ladder given Felix, Felix channel
    - InttDeadMap.C
        - Draft of dead channel analysis macro
        - Does a rigorous classification by fitting channel counts to Poisson distributions
        - Uses the fit to classify with Bayes' theorem

Updates to OnlMon

- https://github.com/sPHENIX-Collaboration/OnlMon/tree/main/subsystems/intt

- Key updates:

  - Updated process_event() function in InttMon.cc to read in real data

  - Can't use it until either updated unpacker libraries are installed on rcas nodes,

  - Or until online environment is set up on OPC0

Updates locally on OPC0

- Initialized a repository with Martins writePmonProject.pl

- Currently only a working, local version exists

- It is depended on libraries only available on the OPC0 file system