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Hands-On: The Corryvreckan reconstruction software

Thursday 30 January 2020 14:00 (2h 30m)

Corryvreckan is a modular test beam data reconstruction and analysis framework developed within the CLICdp collaboration. Its modular structure allows for a separation between the framework core and the implementation of the algorithms in each module. This allows users to 'plug-in'the wanted modules and configure their parameters easily from one configuration file.

This 2.5h tutorial will guide you through the Corryvreckan framework and its functionality. You will learn how to configure your analysis, obtain result plots for your devices under test, and how to monitor you data quality online during data taking. In particular, the flexible event building mechanism will be explained and examples including the AIDA TLU and the EUDAQ2 event loader will be covered.

<h2>Preparation:</h2>

Please clone the git repository with the example configuration file prior to the tutorial:

<pre><code> $gitclonehttps://gitlab.cern.ch/jekroege/bttb8_tutorial_corryvreckan</code></pre>

and download the example data sets:

<pre><code> $cdbttb8_tutorial_corryvreckan/data$ ./download$_{e}xample_{d}ata_{0}1.sh(onlythisiftheconnectionisslow)$
./download$_{e}xample_{d}ata_{0}2.sh$ ./download$_{e}xample_{d}ata_{0}3.sh$</code></pre>

If you like, install the Corryvreckan (v1.0.2 or latest) on your computer. In any case, the different installation options will be discussed in the tutorial and can be followed along. More information can be found on the Corryvreckan website or on the Corryvreckan GitLab repository:

https://cern.ch/corryvreckan
https://gitlab.cern.ch/corryvreckan/corryvreckan

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