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WaveCatcher analysis software development and applications

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Within this work we shortly represent analysis software for WaveCatcher raw data treatment. The software is based on C++ and root libraries, bash is used to run analysis scripts.

Different modules are developed for binary/ASCII and/or measurements/rates/waveform treatment.

The analysis path have tree main steps :

- 1) Conversion of WaveCatcher raw data into the root format.
- 2.1) waveform analysis (if needed).
- 2.2) Off-line merging the data into a common root file with data from another subsystems : translation stage, temperature or other sensors (if needed).
- 3) Histograming.

An important progress report is given about running of the WaveCatcher with MATLAB which open a large possibilities for on-line linking of different subsystems (translation stage for example).

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