

Input:

SIMU: data file (Event Header, MC points, MC tracks) + parameters;

DATA: data file + mapping + calibration + ...;

Output:

+ **Hits** (its, ts, tof, ecal, rs). Possible formats:

- a) raw-data-hits[raw data | MC-points] + **MC hit truth** (MC only);
- b) raw-data-hits[raw data | MC-points] (***MC hit truth**(MC only));
- c) mc-data-hits[MC-points] (raw-data-hits + ***MC hit truth** + mc-points info +...)

+ **Base event objects**

- MC Particles [MC tracks, MC event header] (***MC particle info**);
- MC Vertices [MC tracks] (***Vertex fit pars**);
- (MC|RC) Event [MC event header | raw data].

+ **Reconstucted objects** (MC|RC)

- Tracks (***Track fit pars**), RC Vertices (***Vertex fit pars**), TOF pids, Ecal custers, RS clusters, ...
- Fit parameters (***Track fit pars**, ***Vertex fit pars**, ...) & Objects parametrizations (clusters)

+ **Globals: parameters & geometry** (MC|RC)

Geometry(MC|RC), hit makers & other tasks parameters, ...

Task sequence:

MC,RC:

- **Event**, MC particles, MC vertices (including primary vertex); (*event maker/builder*)
- **Hits**; (*hit makers*)

MC:

- **Tracks** (*Track fit pars), *Vertex fit pars; (*object finders + fitters*)
- TOF pids, Ecal clusters, RS clusters, ... (*mc. object makers*)
- ...

RC:

- **Tracks** (*Track fit pars), **Vertices** (*Vertex fit pars); (*object finders + fitters*)
- **TOF pids, Ecal clusters, RS clusters, ...** (*rc. object makers*)
- ...

MC,RC (optionally):

- **Event** (selection flags).