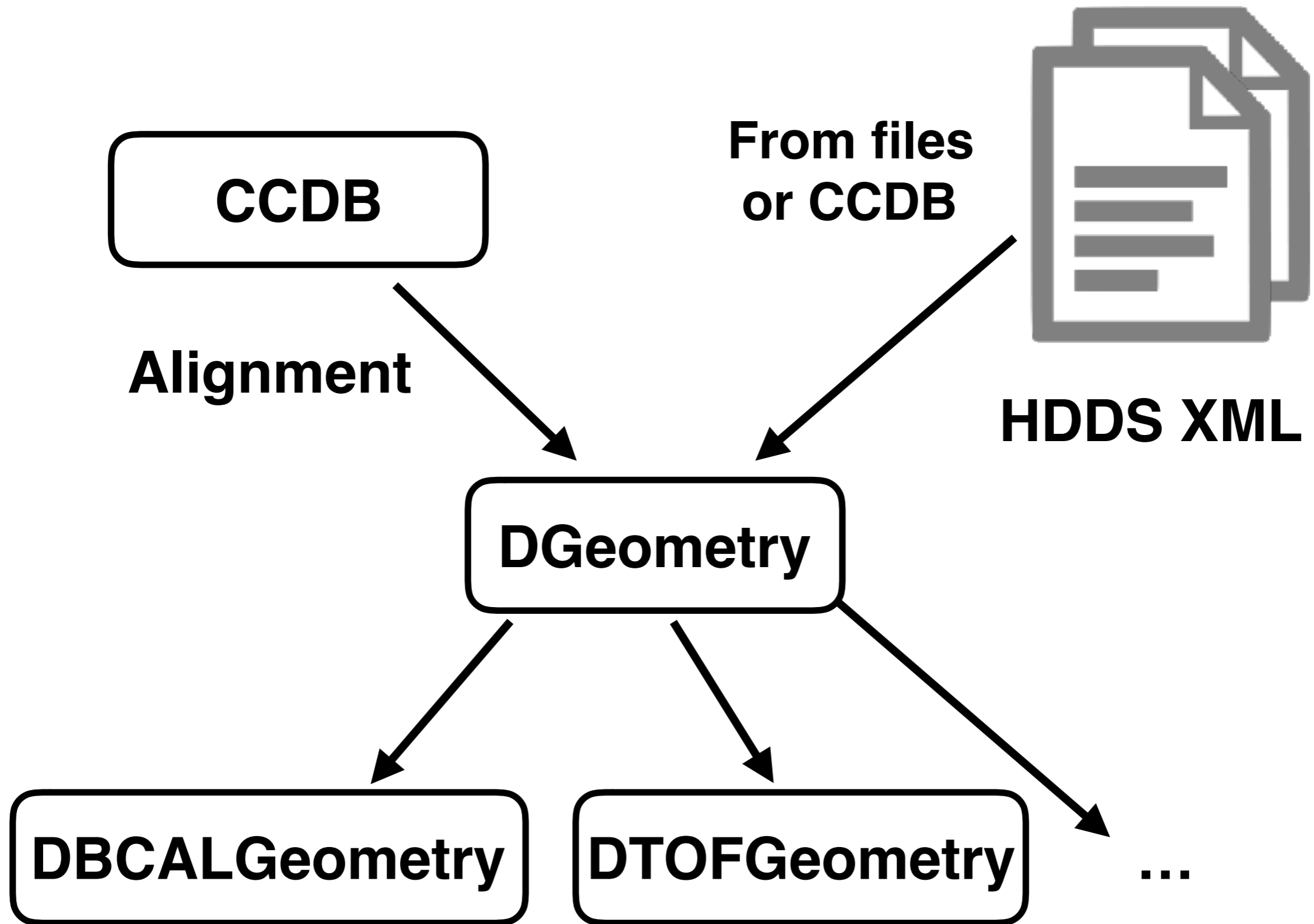


Detector Geometry

- Current scheme in sim-recon needs to be rationalized to support alignment work & support future detector changes.
A modest proposal follows.
- Make DGeometry the canonical source of geometry information, synthesizing two sources:
 - Nominal geometry comes from HDDS XML files.
A version should be frozen and only updated with major changes (e.g. we add in the DIRC)
 - Deltas to the nominal geometry (“alignment parameters”) are stored in the CCDB
- Detector specific geometry classes provide information in the parameterization most convenient for the reconstruction
 - These classes must also be refactored to have a proper interface, i.e. accessing data via functions and not the data members directly



Detector Geometry

- Working on GlueX note to define geometry parameters
- What about simulation?
 - Need to coordinate with Richard
 - Idea: Don't apply alignment shifts to individual detector elements, try to calibrate these effects out in data. Do allow translations/rotations of whole subdetectors.
 - First step: Write tool that creates a modified HDDS XML output from the canonical DGeometry source.
 - This could be eventually be done completely in memory