

# FCC SW - fast/full simulation

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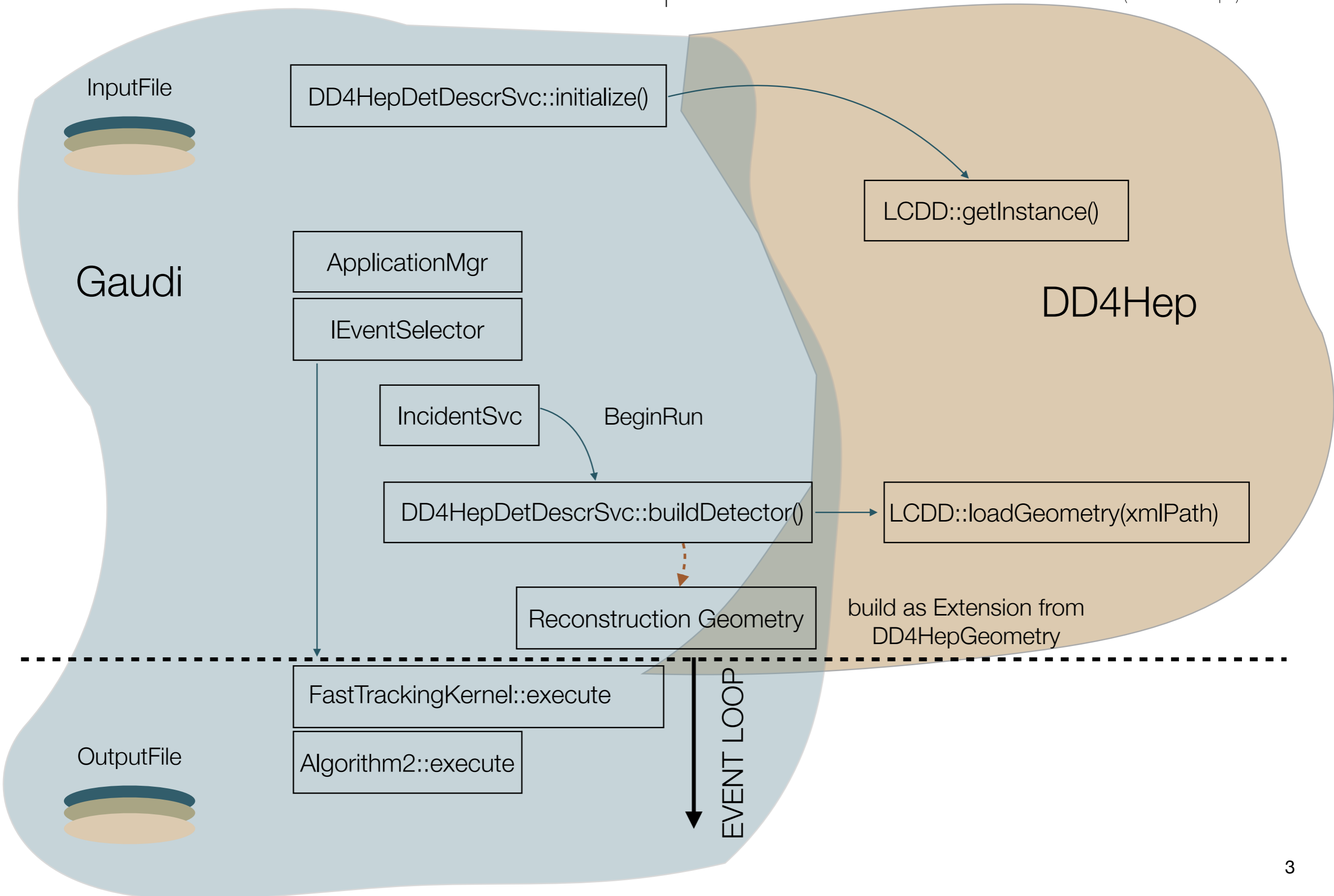
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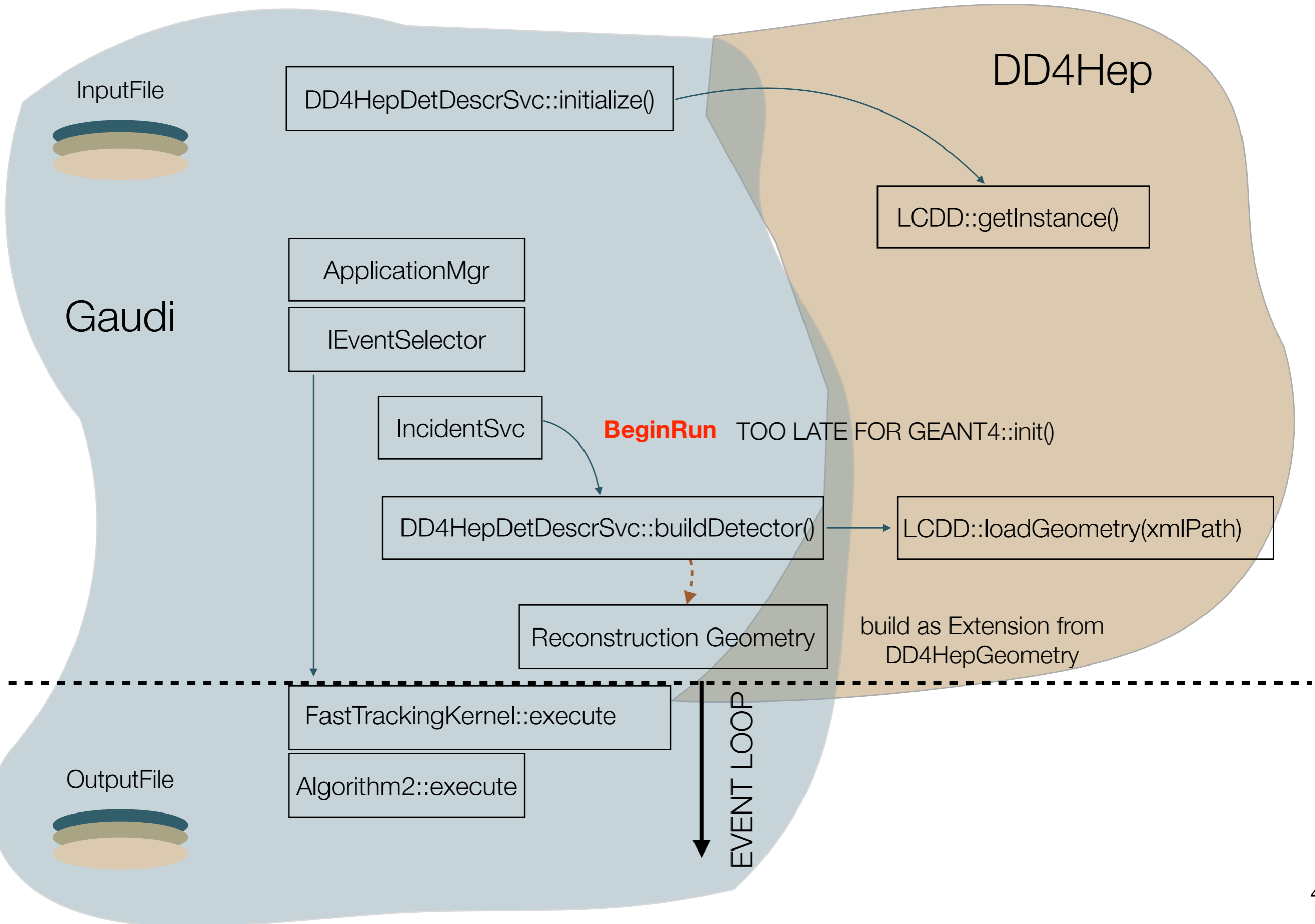
# A quick look at current LHC simulation SW

- **Geant4 is THE full simulation engine used by all LHC experiments**
  - geometry input is differently handled though (xml, GeoModel via DB)
  - Geant4 does provide an event processing backbone (event handling, particle stack, ... )
  
- **ATLAS/CMS (at least) have created fast simulations based on the reconstruction geometry**
  - Tracking not based on Geant4
  - Geometry model not based on Geant4

# Sketch of our current work plan : fast simulation (1st step)



Does this work for Geant4 as well ?



# A common solution

