FCC SW

G Ganis, C Helsens

FCC SW Meeting, 26 March 2021

What happened since last meeting

Key4hep / EDM4hep

- Key4hep meeting skipped because of LCSW week
- EDM4hep dedicated to discuss a possible improvement in the naming of collections
  - Trigger a discussion about schema evolution, for which there will be a dedicated meeting (tentative 20 April) after some preparation work

Next meetings: Mar 30th, April 13th (Key4hep), Apr 20th (EDM4hep)

- Register to egroups **hsf-edm4hep-wg** and/or **key4hep-sw**

Recent activities

- Distributed computing
  - See next
- CLD full simulation
  - Found not working any longer after key4hep induce rebasing
    - Thanks to E Perez and G Boudoul
  - This was looked and understood by Valentin
    - PR with fix available
    - Still some issue to be fixed with output

Distributed Computing

- ## FCC VO activated at CERN
  - HT Condor FCC resources connected to FCC VO
    - Pool accounts for lxbatch created: fcc001...fcc020
  - Standard VO registration procedure
- ## (iLC)Dirac
  - Basic workflow 'generator + delphes_edm4hep app' exercised
  - Not yet connected with EOS area (in progress)
    - It will be a dedicated area under /eos/experiment/fcc
- ## Might need some re-organization of EOS area
  - Currently we have : /eos/experiment/fcc/{ee,eh,helhc,hh,users}
- ## Need also to define convention for Dirac file catalog
  - Which metadata information in file, etc etc

Distributed Computing and EOS area management

- Current file convention for data files

    DelphesEvents/*DelphesCardTag*/*MCgen*_*InState*_*FinState*_ecm*Ecm*_*AuxInfo*/

    DelphesEvents/fcc_tmp_v02/p8_ee_Zbb_ecm91_EvtGen_Bd2KstTauTau/

    where
    - *DelphesCardTag*: tag identifying a specific delphes card
    - *MCgen*: a string identifying the generator (p8, wz, kk, …)
    - *InState*: the initial state (ee or pp or eh ...)
    - *FinState*: the final state (e.g. Zbb or HZ …)
    - *Ecm*: center of mass energy in GeV (e.g. 91 or 240)
    - *AuxInfo*: auxiliary info (optional)

- Is this ok/enough?
    - Standardize codes or values for *MCgen*, *FinState*, *Ecm*, …
        - Need tag for *MCgen* configuration cards?
    - Should we go for a different approach?
        - Eg. run number + database for meta information
    - Investigate what options Dirac provide

Today's meeting

Discussion about job options for Gaudi

Next meetings ([Indico category](#))
- [Apr 16th](#)
    - Following tentative dates: [Apr 30th](#)
- Suggestion for discussion topics for next meetings are welcome

Minutes of the meeting attached to the agenda pages