Monte Carlo Production Status

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CDF MC production

- done using the runMC package
  - executable combining (cdfSim + Production)
  - Trigger simulation is also performed (seeded by runMC)
- latest version: *runMCmcv4_9_1_v11.tar.gz*
- Trigger simulation issues
  (some bugs have been found)
- two types of production:
  - starting from the generator level (Pythia or Herwig)
  - starting from HEPG files (done with Madgraph, etc.)
    (HEPG files need to be transfered locally before processing)

Offsite MC production:

- by early 2003, MC production on the CAF was “not allowed” anymore
- had to turn to offsite resources

For the winter conferences:

- Toronto/Alberta were key players when urgent requests appeared and have played a significant role.
- Out of 31.5 million events, 8.2 million were done @ Toronto/Alberta
- for Toronto: Fish cluster (22 CPU for most of the time)
- for Alberta: Thor cluster.

Currently know MC requests (re. 4.9.1):

- $Z' \rightarrow e^+e^-$ (waiting for generator tcl files)

- τ group , 10.4 millions events (waiting for generators tcl's)

- there is also some pending Madgraph samples (for a while):
  Madgraph $Z- > \tau^+\tau^-$ + 2 jets
  Madgraph $Z- > \tau^+\tau^-$ + 1 jets

Near term:

- Upcoming 4.10.x version for the summer conferences

- need to update runMC package

- will look also at traditional cdfSim+Production.Exe combo vs runMC package.

- BIGMAC will be used for official production