

MC Production Status

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CDF Simulation Meeting

Status

Future production

Info's

- Priority list:

http://www-cdf.fnal.gov/internal/mcProduction/Priority_20040625_2.txt

- Datasets

<http://hep.physics.utoronto.ca/RachidMazini/cdf/cdfmcprod.html>

for now, only completed datasets, with logfiles, DFC info's...

Future requests will be added when priority list is done.

Production status

- BigMac cluster had many hardware problems in September
 - Network switches, disks, computes nodes
 - More than 1 week without any MC production
- Disk space is not an issue anymore, concatenation is more efficient and datasets are quickly put in DFC.
- Need datasets to be defined when a request is made.
- Waiting for HERWIG validation
- About 10% MC production done in Alberta

Recently 5.3.3 Completed Samples

- QCD dijet with 0 min bias
 - PYTHIA Z Born term, 1M
 - PYTHIA dijets, 10 samples, 13M
 - $p_T=0, 10, 60, 90, 120, 150, 200, 300, 400, 500$
 - PYTHIA Z+jets, $p_T=20$, 1M
 - ALPGEN+PYTHIA, 2M
 - $b\bar{b}$, $p_T=8, 20, 70$
 - $c\bar{c}$, $p_T=20, 70$

All data samples are in DFC

- Equivalent HERWIG samples have also been completed but suffer from “non-conservation energy” problem.

Recently 5.3.3 Completed Samples

- Top
 - PYTHIA ttbar , mtop = 175, 1.15M
 - HERWIG ttbar, mtop =175, 1.15M (Energy conservation problem)
- Exotic
 - PYTHIA diphoton, 1M

Future 5.3.3 productions

- QCD
 - PYTHIA dijet $p_T=0$, 2M (as soon as the dataset is defined) ~ 2 days
 - HERWIG dijets reprocessing, 13M, ~ 2 weeks
 - ALPGEN+HERWIG $b\bar{b}$ $p_T=8$, 0.5 M ~ 1day.
- Top
 - 3 Herwig samples, 1.5M ~ 2 days

CPU time given here for Toronto

Alberta, DCAF? contribution will make processing faster

About 3 weeks of full production ahead of us