



d0trigsim Status/News

Trigsim Meeting

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Outline

- News
- P13 Features, problems, status summary
- Future Plans

- Angela has created an online manual.

DØ Trigger Simulator Manual

Table of contents

This is a work in progress!

All comments are welcome!

- [Introduction to TrigSim](#)
- [Getting started \(Cookbook method\)](#)
- [Inputs and configuration](#)
- [Command line options](#)
- [Outputs](#)
- [Examples](#)
- Quirks about p11 Production Releases - please look [here](#)
- Quirks about p12 Production Releases - please look [here](#)
- Quirks about p13 Production Releases - please look [here](#)
- [Frequently asked questions \(FAQ\)](#)
- [Glossary](#)

Updated: Dec 9, 2002
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P13 Status

- p13 created in early October, based on t02.35.00
- Improved L1Cal simulation (see Josh's talk)
- Added ability to unpack CTT real data (see Vivek's talk)
- Greatly improved L2 tracking:
 - tsim_l2stt and l2sttcttworker run by default
 - L2 global track match is now possible
- L2Mu changed data format in p13. Can now also run in "passthrough" mode

P13 Status - cont.

- No new L3 tools/filters but some “issues” go away.
 - Conflicts with run_config_mgr
 - L3Cal unpacking configuration by hand
 - L3 tracking configuration by hand
- Timing of L1/L2 packages now available.

P13 Known Problems (misc)

- L1/L2 not handling data well (l1muo, l2stt)
- Crash after 1515 Wh events.
 - Cause unknown
 - Same crash occurs after approximately 500 ttbar events.
 - core file points to L3 while writing out event.
- Crash after 3500 ttbar events running l1l2only. core says framework.
- L1mu - L2mu communication bug still needs attention

P13 Known Problems (triggerlist)

- COOR online still changing, offline does not keep pace.
- Still need to add USEL1BITS line to level2.sim by hand.
- L3 Tracking hand-config at least partially addressed. Not sure what is left to do on this.

P13 Status Summary

- Expect everything to run without crashing starting with p13.05.00.
- Good default triggerlist also in p13.05.00 (L3 fixed)
- p13.05.00 run online in L2 and p13.06.00 in L3
- p13.06.01 reco will run on p13.06 d0trigsim output. Ready for farms.
- We'd be happier if people didn't use anything before p13.05.00 anymore.

Running on Farms

- d0trigsim is working in mc_runjob
- Have MC triggerlist in-hand. Works with p13. Default list for trigsim.
- Have created triggerlist cvs package where “sim” files will be stored for farm running (like cardfiles for MC generation).
- Making d0trigsim part of standard chain was delayed because reco did not run on trigsim output. p13.06.01 fixes this. Should start running on farms.

Future

- short term - p13:
 - run on MC farms
 - p13.07.00 today: l1cal, l1muon, l2slic
 - Bugfixes for L1/L2 problems on data??
- p14/p15 (1 month???):
 - fix ALL gcc errors and warnings
 - Move certification to thumbnails?
 - Whatever surprises we find when L1CTT and L2STT start being used in data.
 - We find out the rest today... .