

STT Simulator

Status and To Do List

- People
 - Silvia, Bill, Dugan, Evgeny, Meena, Wendy, HP
- Goal
 - By **Oct 15**, complete integration of STT simulator into standard simulator framework while satisfying the needs of this group.
- Status
 - Simulator (tsim_l2stt)
 - Analyzer (l2stt_analyze)
- Short Term To Do List

Simulator (tsim_12stt) Status

- TestVector Code
 - **FRC** to **STC**
 - **FRC** to **TFC**
 - **STC** to **TFC**
 - **TFC** to **L2CTT**
 - L1CTT to FRC
 - FRC to L3
 - STC to L3
 - TFC to L3
- Other Code Updates
 - **Road LookUp Table**
 - **Cluster to Road Map**
 - **L2STTChunk**
 - Test vector bug fixes and improvements

Analyzer (l2stt_analyze) Status

- What is it?
 - A regular framework package to add data from STT objects (clusters, roads, tracks and perhaps channels) to the global ntuple provided by the NtupleMgr.
- Status
 - Just the basic shell is in place

Short Term To Do List

- **Simulator (tsim_l2stt)**
 - Simplify and re-structure test-vector code
 - Complete list of test-vectors (**need help!**)
 - Move SVXChannel extraction code into own class.
 - Use L2STTChunk to store clusters and roads
 - Get SVXChannels from RawDataChunk, via RawDataChunk to UnpDataChunk unpacker
- **Analyzer (l2stt_analyze)**
 - Get cluster and road data into analyzer, via L2STTChunk.
 - Transplant ntuple code from simulator to analyzer

Short Term To Do List...

- Simulator (tsim_l2stt)
 - Re-structure as a DataFlow package
 - Get CTT tracks (in IOGEN format) via dataflow mechanism
 - Include broadcast of STT tracks to L2 and L3
- Analyzer (l2stt_analyze)
 - Get STT tracks (in IOGEN format) from RawDataChunk using dataflow extract mechanism
 - Complete ntuple

To Do List...

- Misc.
 - CTT track to STT sextant map (Bill needs this yesterday!)
 - SMT to STT address map
 - CFT to SMT coordinate map
 - Write/Improve standard macros for `l2stt_analyze` ntuple