

## L2STT Simulator Status 15 September 2000

- Cluster Algorithms -  
Algo I : old Clusters + bug fix  
Algo II : new Clusters ( VHDL )  
both algorithms have been implemented. An RCP parameter allows to select one .
- Tests made with Muon single tracks :
- strips B        clust    roads        STTTracks
- old Clusters    11(10)    5.9(4.5)   .90(.33)   .63(.49)
- old Clusters    11(10)    6.0(4.6)   .90(.33)   .67(.48)
- +bug fix
- new Clusters    11(10)    6.0(4.6)   .90(.33)   .67(.48)

## Simulator 15-Sept-00

- Clusters tested with bbar events:

- |              | stripsB   | clust    | roads  | STTTracks |
|--------------|-----------|----------|--------|-----------|
| old Clusters | 1425(560) | 507(210) | 30(10) | 27(12)    |
| old Clusters | 1425(560) | 502(208) | 30(10) | 27(12)    |
| +bug fix     |           |          |        |           |
| new Clusters | 1425(560) | 502(208) | 30(10) | 27(12)    |

## Simulator 15-sept-00

- The two Cluster Algorithms are enable via RCP parameters.
- Code committed, and gone into Release

## Simulator 15-Sept-00

- CFT to SMT LUT  
big table created.  
tables per single detector going to be created.  
Creation of tables is run into the Simulator at Initialization stage
- TranslationMgr.  
all old functions replaced by the new Wendy's LutTable .  
Wendy's LutTable extended to include requirements needed for Clusters.  
X Y distributions for Clusters and Clusters-in-Roads created that way. ( Stereo view included in LutTables)

## Simulator 15-Sept-00

- TranslationMgr removed from all packages. This eliminates the circular dependencies.
- All packages tested with muon data. Runs OK.
- Code committed and tagged. Going to release. Should be pretty stable form now on.

## Simulator 15-Sept-00

- Release -  
All three packages ( tsim\_12stt, 12stt\_fitting and 12stt\_util )  
are in the d0dist/dist/releases/ area.  
Still some bugs to be fixed : release of C files ; another bug  
in tsim\_12stt.
- Present simulator builds with CVS t01.12.00

## Simulator 15-Sept-00

- NtupleManager.  
Steve working on creating an extended Ntuple that will include Roads and Clusters together.
- IOgen . Creation of the STT class for output STT Simulator information. Will work with Dugan O'Neil and use the L1Cal as an example of application of the IOGen tools.