

L1/Velo OO Migration Plans

- Team members
- Migration plan
- Feedback

Team members:

- Core development
 - Bruce Hay (CERN)
- L1 trigger algorithms
 - Roland Richter (Heidelberg)
 - Pawel Jalocha (Cracow)
 - Frank Fiedler (CERN)
 - Bruce Hay (CERN)

Short of manpower for core development - welcome help.

Migration plan: Data model

- existing data model (as presented in last software meeting) is an almost exact copy of the SICb data model for L1 & Velo
 [all documentation can be found at http://cern.ch/bruce
- automatic code documentation using

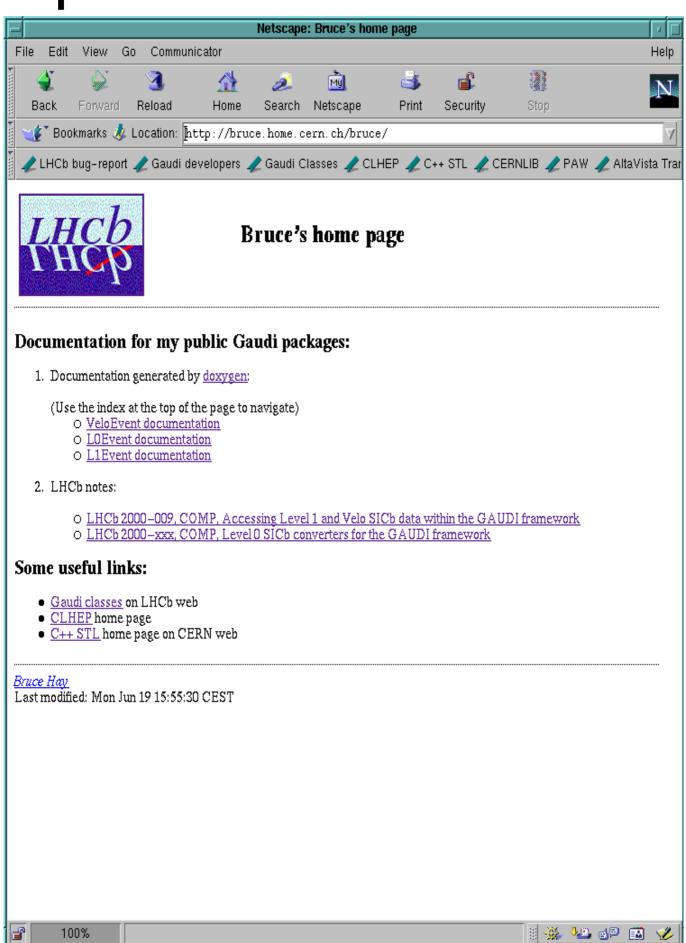


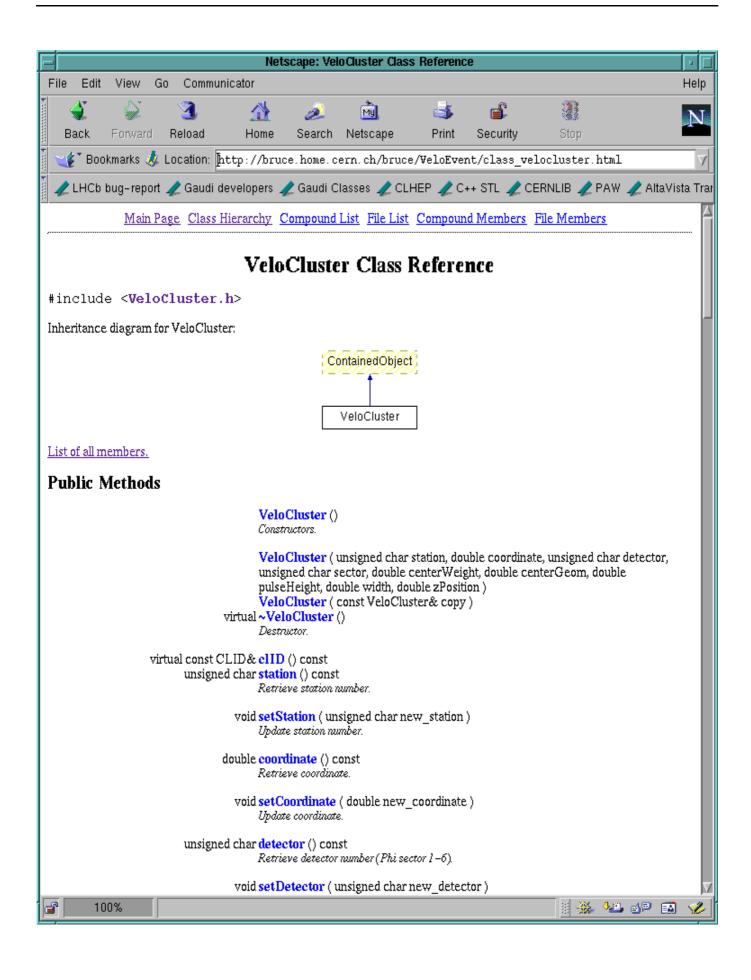
Currently plan to review all classes in our data model

Class	Contents	Timescale
MCVeloHit	Entry/exit points, etc. from MC tracking	July/August 2000
RawVeloHit	Digitised hits in Silicon strips	July/August 2000
VeloCluster	Reconstructed R/Phi cluster	July/August 2000

then carry on with 2D/3D tracks, vertices - completed by September.

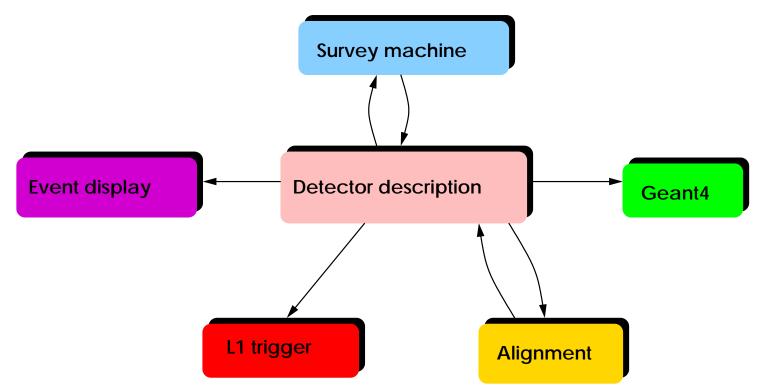
http://cern.ch/bruce





Migration plans: detector description

current XML description too static?



Proposal: describe volumes & materials separately from alignment. We plan to have a working meeting on this starting September 4. (Liverpool/NIKHEF/CERN). New Velo detector will be implemented.

Migration plans:

Digitisation

- requires geometry
- will implement new features noise inefficiency charge diffusion
- start design now completed after Geometry description (+2 months)

Reconstruction

- cluster reconstruction: start design now completed after Geometry description (+2 months)
- 2D/3D tracks, vertices? In SICb these were the same objects as the L1 tracks and vertices. What to implement for L1 emulation only or for offline use?

Feedback:

Manpower

 with testbeam and detector optimisation a priority we are unable to commit people to OO migration at the moment

Commonality/uniformity of approach

- to avoid a lot of rewriting later we would like to see certain things better specified
- standardisation of access to data objects: no fancy containers/objects
- standard method for linking to MC: inheritance or reference tables
- stick to naming conventions

Workshops rather than meetings

- to arrive at a concensus and common approaches more easily and quickly than in a distributed environment
- hands-on approach to aid transfer of information to the implementors