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Principal Reviewer

Olivier Callot

Code Location

Package	Project	Functionality
VeloLite/VeloLiteMoniSim	Gauss	monitoring of MCHits
Det/VeloLiteDet	LHCb	detector element
VeloLite/VeloLiteDigitisation	Boole	digitisation and clustering
VeloLite/VeloLiteAssociators	Lbcom	MC truth association
VeloLite/VeloLiteDAQ	Lbcom	raw bank encoding
Event/VeloLiteEvent	LHCb	event classes (temporary location)

Reviewer Comments

- The VeloLiteChannelID (VeloLiteChannelID.xml) is a copy of VeloChannelID, but with 12 bits for encoding the strip number.

Review Comments (notes taken by Paul)

- Change naming scheme from VeloLite to VL in order to be consistent.
- Should only have one decoder method (with a test?).
- Cleanup methods which are not used. Only add them when necessary.
- Do not inherit code from other packages - ensure the package is self-contained.
- Suggestion to form truth table as part of the event class.
- Granulate the monitoring. Not many people want to look at the expert monitoring histograms and they take up space in productions. Possibly better to output a summary which can be parsed and a flag to book/fill/write the expert histograms.
- Code footprint - do you really need to use an array of doubles rather than floats?
- Ensure that each algorithm has a unique name.

Proposed Event Classes

Class	Class ID	Description
MCVeloLiteDigit	4301	response of a strip chip channel (charge and ADC value)
VeloStripCluster	4302	equivalent of VeloCluster
VeloStripLiteCluster		equivalent of VeloLiteCluster

This topic: LHCb > UpgradeSoftwareReviewVeloLite

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