

New Skimmer Tool - 2006/09/12

David Chamont – LLR
Tom Glanzman - SLAC



Wishes

- New data kinds
 - SVAC, CAL, BeamTest ntuples
 - Both (run,event) and TCut based selection across any combination of ntuples and trees
 - Output can be any combination of data kinds
 - Copy ancillary data
 - The pointing history in Merit ntuples
 - The FileHeader in the ROOT trees
 - Implementation
 - Merge Pruner and Peeler into a single Skimmer
 - Use new Data Catalog to determine the correct libraries for reading ROOT trees
 - Compile ROOT macros for better performance
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Done

- Regression Test Suite
 - Code fully factorized, except kernel code in pruner-like and peeler-like steps, where TTrees are managed.
 - When using the new skimmer script, a single job can extract merit, mc, digi and recon data, based on Tcut on merit (this is not yet done thanks to TTree friends, but thanks to a first pruner-like step, followed by a peeler-like step) .
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Under Work

- Me
 - Merge the pruner and peeler kernel code.
 - Generalize use of branch selection, with the ability to filter simulatenously merit, mc, digi and recon files.
- Tom
 - Test last skimmer release with big jobs.

To Be Done

- WEB front-end team
 - Try the front-end with the last back-end release
 - Modify the front-end so to use directly the skimmer.pl script
 - Tom ?
 - Investigate the problem with digi files
 - Me
 - Generalization to other kinds of tuples
 - Copy of ancillary objects
 - Compilation of ROOT macros
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Side Remark

The current libraries organization :

.../BeamtestRelease/BeamtestRelease-v3r0907p0/...

will certainly be a problem when we want to use CMT projects mechanisms, because CMT would rather expect :

.../BeamtestRelease/v3r0907p0/...

so that one can say in a project requirements file :

use BeamtestRelease v3r0907p0
