New Skimmer Tool - 2006/09/12

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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
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).
Under Work

• Me
  – Merge the pruner and peeler kernel code.
  – Generalize use of branch selection, with the ability to filter simultaneously 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
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