art - Feature #15334

subrun mixing

01/26/2017 03:36 PM - Andrei Gaponenko

Status:	Closed	**Start date:**	01/26/2017
Priority:	Normal	**Due date:**	
Assignee:	Christopher Green	**% Done:**	100%
Category:	Infrastructure	**Estimated time:**	80.00 hours
Target version:	2.06.00	**Spent time:**	24.00 hours
Scope:	Internal	**SSI Package:**	art
Experiment:	Mu2e		

Description

Hello,

In event mixing jobs, we would like to pass information from SubRun data products in secondary input streams into a SubRun product in the primary output stream. Please add an interface to make this possible.

Andrei

History

#1 - 01/30/2017 09:56 AM - Andrei Gaponenko

More on this: the final "mixed" object can only be put into SubRun at the endSubRun() stage. This makes it not available to downstream consumers that run on events in the same job.

A way to address this use case is provide access to Event to the code that "mixes" subrun objects. Then we'll be able to put into Event information extracted from secondary stream subrun objects that is relevant to just this specific event, and same-job consumers can be configured to look for it in Event instead of SubRun. The "total" object with a union of information about all events will still go into SubRun at endSubRun().

#2 - 01/30/2017 11:32 AM - Kyle Knoepfel

- Category set to Infrastructure

- Status changed from New to Assigned

- Assignee set to Christopher Green

- Estimated time set to 80.00 h

- SSI Package art added

#3 - 02/02/2017 03:01 PM - Christopher Green

- Status changed from Assigned to Resolved

- % Done changed from 0 to 100

Implemented with commits 4ab18fc4 .. b477c35c.

See documentation at https://cdcvs.fnal.gov/redmine/projects/art/wiki/Product_Mixing, and in header documentation for source:art/Framework/Modules/MixFilter.h and source:art/Framework/IO/ProductMix/MixHelper.h.

#4 - 02/07/2017 03:22 PM - Kyle Knoepfel

- Status changed from Resolved to Closed