art - Bug #13564

Assertion failure on maybeInvalidateRangeSet(): Assertion `!principalRS.ranges().empty()' failed.

08/16/2016 01:57 PM - Lucas Mendes santos

Status:	Closed	**Start date:**	08/16/2016
Priority:	Immediate	**Due date:**	
Assignee:	Kyle Knoepfel	**% Done:**	100%
Category:	Infrastructure	**Estimated time:**	0.00 hour
Target version:	2.03.00	**Spent time:**	4.00 hours
Occurs In:		**Experiment:**	LArIAT
Scope:	Internal	**SSI Package:**	art

Description

Hi guys,

Found an issue on art v2.2. When I run a reconstruction fhicl file it runs accordingly until it creates the art-root output. There I get this error:

lar: /scratch/workspace/nu-release-build/v2_03_00/s39-e10/debug/build/art/v2_02_02/src/art/Framework/IO/Root/RootOutputFile.cc:230: void {anonymous}::maybeInvalidateRangeSet(art::BranchType, const art::RangeSet&, art::RangeSet&): Assertion `!principalRS.ranges().empty()' failed.

Did a scan with Gianluca Petrillo and even though we run a empty fhicl file the error persists. Currently, I'm running on the latest version of lariatsoft (v06_03_00)

The path to the input file list is /pnfs/lariat/scratch/users/lmendes/v06_03_00/digits2/files.list

Thanks in advance,

Lucas

Related issues:

Related to art - Bug #14430: Art v2_05_00 failed assertion.	**Closed**	**11/07/2016**

History

#1 - 08/16/2016 02:21 PM - Kyle Knoepfel

- Subject changed from Crash on maybeInvalidateRangeSet(): Assertion `!principalRS.ranges().empty()' failed. to Assertion failure on maybeInvalidateRangeSet(): Assertion `!principalRS.ranges().empty()' failed.

- Status changed from New to Assigned

- Assignee set to Kyle Knoepfel

Do you get an error if you run with the profile build of lariatsoft?

#2 - 08/16/2016 02:56 PM - Kyle Knoepfel

I confirm the abort using the first file in the file list you pointed me to, and also the version of lariatsoft you are using. Investigating.

#3 - 08/16/2016 03:11 PM - Lucas Mendes santos

Kyle Knoepfel wrote:

> I confirm the abort using the first file in the file list you pointed me to, and also the version of lariatsoft you are using. Investigating.

In the profile build I don't get the error. Interesting.

#4 - 08/16/2016 03:50 PM - Kyle Knoepfel

This is not surprising. assert is a preprocessor macro that is disabled for the profile build--in other words, the code encapsulated by an assert statement does not even appear in the compiled product.

The bug you encountered is understood. When implementing the range-set capabilities of art 2.01.00, the backwards-compatibility I had accounted

for was obviously inadequate. Various options are possible in fixing this bug, but we would like to discuss them with the *art* stakeholders this Thursday.

#5 - 08/17/2016 10:35 AM - Kyle Knoepfel

- Category set to Infrastructure

- Status changed from Assigned to Resolved

- % Done changed from 0 to 100

- SSI Package art added

- SSI Package deleted ()

#6 - 08/17/2016 10:46 AM - Kyle Knoepfel

Fixed with commit art:936e5932. With the fix, I confirm that running the debug build of lariatsoft v06_03_00, with the configuration you provided, is successful.

#7 - 08/18/2016 08:20 AM - Kyle Knoepfel

- Status changed from Resolved to Closed

- Target version set to 2.03.00

#8 - 11/07/2016 03:11 PM - Kyle Knoepfel

- Related to Bug #14430: Art v2_05_00 failed assertion. added