

art - Bug #16146

Cannot exit gracefully

04/10/2017 06:09 PM - Will Foreman

Status:	Closed	Start date:	04/10/2017
Priority:	Normal	Due date:	
Assignee:	Kyle Knoepfel	% Done:	100%
Category:	Infrastructure	Estimated time:	0.00 hour
Target version:	2.07.01	Spent time:	14.00 hours
Occurs In:		Experiment:	LArIAT
Scope:	Internal	SSI Package:	art
Description			
Hello,			
I'm using lariatsoft v06_31_00 on a GPVM, lariatgpvm03.fnal.gov.			
In past versions, when I ran LArSoft code interactively ("lar -c ..."), doing "ctrl+C" would initiate the endJob function and my code would exit gracefully and all my nice end-job plots would be made.			
This no longer seems to be the case.			
Is there a way to recover this functionality? Is this a LArSoft-specific issue?			
Thanks, Will			

History

#1 - 04/10/2017 06:13 PM - Will Foreman

To be more specific, here's an example of output when I do ctrl+C during the running of a module:

```
...
Begin processing the 948th record. run: 10024 subRun: 1 event: 9797 at 10-Apr-2017 18:11:02 CDT
Begin processing the 949th record. run: 10024 subRun: 1 event: 9798 at 10-Apr-2017 18:11:02 CDT
Begin processing the 950th record. run: 10024 subRun: 1 event: 9799 at 10-Apr-2017 18:11:02 CDT
^CBegin processing the 951st record. run: 10024 subRun: 1 event: 9800 at 10-Apr-2017 18:11:02 CDT
Begin processing the 952nd record. run: 10024 subRun: 1 event: 9801 at 10-Apr-2017 18:11:02 CDT
Begin processing the 953rd record. run: 10024 subRun: 1 event: 9802 at 10-Apr-2017 18:11:02 CDT
Art has handled signal 2.
Art has completed and will exit with status 130.
```

Seems "signal 2" is what art is mapping as ctrl+C. Hope this helps.

#2 - 04/13/2017 08:56 AM - Kyle Knoepfel

- Status changed from New to Assigned
- Assignee set to Kyle Knoepfel

The behavior change you observe is confirmed. It is not a LArSoft-specific issue, but it is a change that was unintentionally introduced in art between versions [2.05.00](#) and [2.06.00](#). We will work to restore the original behavior.

#3 - 04/17/2017 09:49 AM - Kyle Knoepfel

- Category set to Infrastructure
- % Done changed from 0 to 50
- SSI Package art added

The fix to this bug is implemented with art [art:68cee7ed](#). I have marked this issue as 50% complete because the same graceful shutdown behavior must be confirmed in the context of an exception throw.

#4 - 04/18/2017 02:02 PM - Kyle Knoepfel

- Status changed from Assigned to Resolved

- % Done changed from 50 to 100

I confirmed that exiting gracefully was also unintentionally removed in the context of an exception throw--i.e. the endSubRun, endRun, and endJob user-provided functions were not called whenever an exception was thrown from an event callback.

This has been fixed with commit [art:e9198343](#). We will create an art 2.06 bug-fix release that incorporates these fixes.

#5 - 04/27/2017 01:41 PM - Kyle Knoepfel

- Target version set to 1209

#6 - 05/25/2017 09:10 AM - Kyle Knoepfel

- Target version changed from 1209 to 2.07.01

#7 - 05/25/2017 09:16 AM - Kyle Knoepfel

- Status changed from Resolved to Closed