

## LArSoft - Bug #11357

### Event display crash for sbnd

01/06/2016 03:58 PM - Hector Mendez

<b>Status:</b>	Closed	<b>Start date:</b>	01/06/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Gianluca Petrillo	<b>% Done:</b>	100%
<b>Category:</b>	Event Display	<b>Estimated time:</b>	12.00 hours
<b>Target version:</b>	v05_00_00	<b>Spent time:</b>	4.00 hours
<b>Occurs In:</b>	v05_00_00	<b>Co-Assignees:</b>	
<b>Experiment:</b>	SBND		

#### Description

```
lar -c evd_lar1nd.fcl gen_10evts_single_0deg_100x_100y_10z_0sig_tst06.root
```

then the message:

```
Begin processing the 1st record. run: 1 subRun: 0 event: 1 at 06-Jan-2016 15:33:35 CST
%MSG-w InfoTransfer: PostSource 06-Jan-2016 15:33:35 CST run: 1 subRun: 0 event: 1
failed to get handle to std::vector<recob::Hit> from fffhit
%MSG
TimeModule> run: 1 subRun: 0 event: 1 evdisp EVD 3.09944e-05
TimeEvent> run: 1 subRun: 0 event: 1 0.000620842
```

```
MCTruth Ptcl trackID      PDG   P   T  Moth Process
0 0 -1      #mu 5999 5895 -1 primary
Note: Momentum, P, and kinetic energy, T, in MeV/c
terminate called without an active exception
Aborted
```

I'm using larsoft v05\_00\_00\_rc1 and my data is at:

```
/lar1nd/app/users/mendez/myTest/GenRec
```

My working are is at:

```
/lar1nd/app/users/mendez/larsoft_v05_00_00_rc1
```

I created the gen file running:

```
source runAll_txt.sh gen at /lar1nd/app/mendez/myTest
```

My setup is at: /lar1nd/app/mendez/setup\_lar.sh

#### History

##### #1 - 01/06/2016 04:09 PM - Lynn Garren

Thank you for being the first person to test our release candidate!

##### #2 - 01/08/2016 12:49 PM - Gianluca Petrillo

- Status changed from New to Assigned

- Assignee set to Gianluca Petrillo

##### #3 - 01/08/2016 01:15 PM - Gianluca Petrillo

Could you push in a branch the changes to lar1ndcode that are not included in the official branch?

I went as far as getting a:

```
terminate called after throwing an instance of 'cet::coded_exception<art::errors::ErrorCodes, &art::ExceptionD
etail::translate>'
what(): ---- ServiceNotFound BEGIN
Service unable to find requested service with compiler type name 'lariov::ChannelStatusService'.
```

---- ServiceNotFound END

that we had already solved.

**#4 - 01/08/2016 06:38 PM - Gianluca Petrillo**

- Target version set to v05\_00\_00

- % Done changed from 0 to 40

- Estimated time set to 12.00 h

Hector has pushed the changes I asked into branch hmendez\_bugsfixed of lar1ndcode.

I can't reproduce the exact problem, but I do find that SBND code is still behind in the update to a modern LArSoft (even 4.30). I have updated some of the configuration, my changes pushed in the same branch.

I can now see the display.

TPC 0 is completely empty, TPC 1 shows activity only in collection plane.

Next is to check if there are non-empty raw digits for induction planes.

It might be a problem with pedestals. Or not.

I would also like to add geometry tests, that include a channel-to-wire mapping dump that would turn useful.

Hector, please try it again if you have time. At the very least, you should see the event display window show.

**#5 - 01/11/2016 06:50 PM - Gianluca Petrillo**

- Status changed from Assigned to Resolved

The problem described in the ticket is solved: SBND event display now shows up on screen and there are no issues attributed to the event display. The fixes are in Hector Mendez's dunetpc branch hmendez\_bugsfixed.

Problems persist, related to the signal simulation on the wires. But that's another problem completely.

**#6 - 01/11/2016 06:51 PM - Gianluca Petrillo**

- % Done changed from 40 to 100

**#7 - 01/14/2016 10:46 AM - Gianluca Petrillo**

- Experiment SBND added

- Experiment deleted (-)

(we have a new "SBND experiment" options! thank you Marc)

**#8 - 10/03/2016 10:15 AM - Gianluca Petrillo**

- Status changed from Resolved to Closed