

LArSoft - Bug #17255

Floating point inexact result

07/21/2017 03:56 PM - Tracy Usher

Status:	Closed	Start date:	07/21/2017
Priority:	Normal	Due date:	
Assignee:	Hans-Joachim Wenzel	% Done:	0%
Category:	Simulation	Estimated time:	0.00 hour
Target version:	2017-3-quarter	Spent time:	0.00 hour
Occurs In:	develop/HEAD	Co-Assignees:	
Experiment:	-		

Description

In trying to run single particle simulations in the context of ICARUS I encountered an exception that stops processing when running the Geant4 step. The messages are:

```
%MSG-d ParticleListAction::SteppingAction: LArG4:largeant@ 21-Jul-2017 11:24:42 PDT run: 1 subRu
n: 0 event: 1 ParticleListAction.cxx:350
: DEBUG - process='muIoni' ignoreProcess=0 fstoreTrajectories=1
%MSG
ERROR: 8 - Floating point inexact result.
```

```
Abort trap: 6
```

This is using a debug build on OS X (Yosemite) in larsoft v06_44_00 and with the current develop branch of icaruscode.

Steps to repeat:

1. first one should generate some number of particles:

```
lar -c prod_muon_0-1GeV_isotropic_icarus.fcl -n 100
```

2. With this output file, run the geant4 step:

```
lar -c standard_g4_icarus.fcl -s prod_mxxxxx -n 100
```

History

#1 - 07/24/2017 09:26 AM - Gianluca Petrillo

- Description updated

#2 - 07/31/2017 10:53 AM - Lynn Garren

- Status changed from New to Assigned

- Assignee set to Hans-Joachim Wenzel

Hans, would you take a look?

#3 - 11/08/2018 01:57 PM - Katherine Lato

From: Hans-Joachim Wenzel <wenzel@fnal.gov>

Date: Tuesday, November 6, 2018 at 1:47 PM

concerning the redmine issue

<https://cdcvns.fnal.gov/redmine/issues/17255>

I never could reproduce the error and don't think it has anything to do with Geant 4.

#4 - 11/08/2018 03:18 PM - Katherine Lato

- Status changed from Assigned to Closed

Checked with the originator:

On 11/8/18, 3:03 PM, "Usher, Tracy L." <usher@slac.stanford.edu> wrote:

I have not personally run into this problem recently and we have been running a number of single particle samples... so I would guess its not a problem anymore.