

## LArSoft - Bug #20108

### Platform-dependent exception

06/07/2018 04:55 AM - Nick Grant

<b>Status:</b>	Closed	<b>Start date:</b>	06/07/2018
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	Other	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	x_future_release	<b>Spent time:</b>	0.00 hour
<b>Occurs In:</b>	v06_78_00	<b>Co-Assignees:</b>	
<b>Experiment:</b>	DUNE		

#### Description

We are getting an exception when running LArSoft v06\_78\_00 at the University of Warwick. A colleague has run the identical code at Fermilab; it runs fine and does not produce the exception. We set up LArSoft in the usual way

```
source /cvmfs/dune.opensciencegrid.org/products/dune/setup_dune.sh
source /data/t2k/phsavg/DUNE_v06_78_00/localProducts_larsoft_v06_78_00_e15_prof/setup
setup -q e15:prof dune tpc v06_78_00
```

then run larana/ParticleIdentification/scripts/runPID\_noMVA.fcl, which runs larana/ParticleIdentification/MVAPID\_module.cc. The input file is one from MCC10 for ProtoDUNE single-phase. It runs correctly for a few events and then gives the exception. Here is one example of it

```
%MSG-s ArtException: PostEndJob 07-Jun-2018 09:47:17 BST ModuleEndJob
cet::exception caught in art
---- OtherArt BEGIN
  std::bad_alloc---- OtherArt BEGIN
    std::bad_alloc
  ---- OtherArt END
  ---- OtherArt BEGIN
    ---- FatalRootError BEGIN
      Fatal Root Error: @SUB=TTree::SetEntries
      Tree branches have different numbers of entries, eg recob::Hitrecob::SpacePointvoidart::Assn
s_ptrack__Reco. has 0 entries while EventAuxiliary has 1 entries.
    ---- FatalRootError END
  ---- OtherArt END
---- OtherArt END
%MSG
%MSG-s ArtException: PostEndJob 07-Jun-2018 09:47:17 BST ModuleEndJob
cet::exception caught in art
---- OtherArt BEGIN
  std::bad_alloc---- OtherArt BEGIN
    std::bad_alloc
  ---- OtherArt END
  ---- OtherArt BEGIN
    ---- FatalRootError BEGIN
      Fatal Root Error: @SUB=TTree::SetEntries
      Tree branches have different numbers of entries, eg recob::Hitrecob::SpacePointvoidart::Assn
s_ptrack__Reco. has 0 entries while EventAuxiliary has 1 entries.
    ---- FatalRootError END
  ---- OtherArt END
---- OtherArt END
%MSG
```

but it does vary from one event to another. A colleague here at Warwick has also seen a similar exception when running protoDUNE\_reco.fcl in LArSoft v06\_78\_00 over a detsim file, though he does not see std::bad\_alloc.

We had a problem 2 years ago which was reported in

<https://cdcv.sfnal.gov/redmine/issues/13719>

This was eventually tracked down to an outdated version of glibc at Warwick, and was resolved by updating it. We are wondering whether there is a similar cause now.

The output of `lsb_release -a` is

LSB Version:

:base-4.0-amd64:base-4.0-noarch:core-4.0-amd64:core-4.0-noarch:graphics-4.0-amd64:graphics-4.0-noarch:printing-4.0-amd64:printing-4.0-noarch

Distributor ID: RedHatEnterpriseServer

Description: Red Hat Enterprise Linux Server release 6.6 (Santiago)

Release: 6.6

Codename: Santiago

We ran it with `strace` and the log file is attached. If anyone has any suggestions about this, please let us know. Thanks.

## History

### #1 - 06/11/2018 10:33 AM - Kyle Knoepfel

- Description updated

### #2 - 06/11/2018 10:37 AM - Kyle Knoepfel

- Status changed from New to Accepted

We can attempt to reproduce this on our own machines. However, we have a few questions.

- What does `$PRODUCTS` say?
- Please give us the output of `ups active` after you do the setup command.

We recommend you use more strict UPS setup flags:

```
setup -B -q +e15:+prof dunetpc v06_78_00
```

### #3 - 06/11/2018 11:27 AM - Nick Grant

Thanks very much for your reply. Using the setup as in the original post (not the more strict one), the output of `$PRODUCTS` is

```
/data/t2k/phsxvg/DUNE_v06_78_00/localProducts_larsoft_v06_78_00_e15_prof/cvmfs/dune.opensciencegrid.org/products/dune/cvmfs/larsoft.opensciencegrid.org/products/cvmfs/fermilab.opensciencegrid.org/products/larsoft/cvmfs/fermilab.opensciencegrid.org/products/common/db
```

and the output of `ups_active` is

Active ups products:

```
art v2_10_03 -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
artdaq_core v3_01_06 -f Linux64bit+2.6-2.12 -q e15:prof:s65 -z /cvmfs/larsoft.opensciencegrid.org/products
awscli v1_7_15 -f Linux64bit+2.6-2.12 -z /cvmfs/fermilab.opensciencegrid.org/products/common/db
boost v1_66_0 -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
caffe v1_0h -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
canvas v3_02_02 -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
canvas_root_io v1_01_02 -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
cetlib v3_02_00 -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
cetlib_except v1_01_06 -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
cetpkgsupport v1_14_01 -f NULL -z /cvmfs/larsoft.opensciencegrid.org/products
cigetcert v1_16_1 -f Linux64bit+2.6-2.12 -z /cvmfs/fermilab.opensciencegrid.org/products/common/db
cigetcertlibs v1_1 -f Linux64bit+2.6-2.12 -z /cvmfs/fermilab.opensciencegrid.org/products/common/db
clhep v2_3_4_5c -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
cpn v1_7 -f NULL -z /cvmfs/fermilab.opensciencegrid.org/products/common/db
cppunit v1_13_2b -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
cry v1_7j -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
dk2nudata v01_06_01a -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
dk2nugenie v01_06_01d -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
dune_pardata v01_30_00 -f NULL -z /cvmfs/dune.opensciencegrid.org/products/dune
dunepdsprce v0_0_4a -f Linux64bit+2.6-2.12 -q e15:gen:prof -z /cvmfs/dune.opensciencegrid.org/products/dune
dune_raw_data v1_17_06 -f Linux64bit+2.6-2.12 -q e15:nu:prof:s65 -z /cvmfs/dune.opensciencegrid.org/products/dune
dunetpc v06_78_00 -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/dune.opensciencegrid.org/products/dune
duneutil v06_78_00 -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/dune.opensciencegrid.org/products/dune
eigen v3_3_3 -f NULL -z /cvmfs/larsoft.opensciencegrid.org/products
fftw v3_3_6_pl2 -f Linux64bit+2.6-2.12 -q prof -z /cvmfs/larsoft.opensciencegrid.org/products
fhiclcpp v4_06_05 -f Linux64bit+2.6-2.12 -q e15:prof -z /cvmfs/larsoft.opensciencegrid.org/products
g4abla v3_0 -f NULL -z /cvmfs/larsoft.opensciencegrid.org/products
g4emlow v6_50 -f NULL -z /cvmfs/larsoft.opensciencegrid.org/products
g4neutron v4_5 -f NULL -z /cvmfs/larsoft.opensciencegrid.org/products
```

g4neutronxs	v1_4	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
g4nucleonxs	v1_1	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
g4nuclide	v2_1	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
g4photon	v4_3_2	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
g4pii	v1_3	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
g4radiative	v5_1_1	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
g4surface	v1_0	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
g4tendl	v1_3	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
gallery	v1_07_02	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
gcc	v6_4_0	-f Linux64bit+2.6-2.12	-z /cvmfs/larsoft.opensciencegrid.org/products
geant4	v4_10_3_p03b	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
genie	v2_12_10a	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
genie_phyopt	v2_12_10	-f NULL	-q dkcharmtau -z /cvmfs/larsoft.opensciencegrid.org/products
genie_xsec	v2_12_10	-f NULL	-q DefaultPlusMECWithNC -z /cvmfs/larsoft.opensciencegrid.org/products
gflags	v2_2_1	-f Linux64bit+2.6-2.12 -q e15	-z /cvmfs/larsoft.opensciencegrid.org/products
gitflow	v1_11_0	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
git	v2_15_1	-f Linux64bit+2.6-2.12	-z /cvmfs/larsoft.opensciencegrid.org/products
glog	v0_3_5	-f Linux64bit+2.6-2.12 -q e15	-z /cvmfs/larsoft.opensciencegrid.org/products
gsl	v2_4	-f Linux64bit+2.6-2.12 -q prof	-z /cvmfs/larsoft.opensciencegrid.org/products
hd5	v1_10_1c	-f Linux64bit+2.6-2.12 -q e15	-z /cvmfs/larsoft.opensciencegrid.org/products
ifbeam	v2_2_2	-f Linux64bit+2.6-2.12 -q e15:p2714b:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
ifdh_art	v2_05_05	-f Linux64bit+2.6-2.12 -q e15:prof:s65	-z /cvmfs/larsoft.opensciencegrid.org/products
ifdhc_config	v2_3_3	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
ifdhc	v2_3_2	-f Linux64bit+2.6-2.12 -q e15:p2714b:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
jobsub_client	v1_2_6_2	-f NULL	-z /cvmfs/fermilab.opensciencegrid.org/products/common/db
jsoncpp	v1_7_7b	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
jsonnet	v0_9_3b	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
lapack	v3_7_1	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larana	v06_19_07	-f Linux64bit+2.6-2.12 -q e15:prof	-z
/data/t2k/phsxbg/DUNE_v06_78_00/localProducts_larsoft_v06_78_00_e15_prof			
larbatch	v01_40_00	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
larcorealg	v1_21_00	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larcore	v06_19_03	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larcoreobj	v1_23_00	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
lardataalg	v1_00_00	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
lardata	v06_45_00	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
lardataobj	v1_32_02	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
lareventdisplay	v06_19_07	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larevt	v06_20_06	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larexamples	v06_13_06	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larpandoracontent	v03_12_00	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larpandora	v06_27_01	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larreco	v06_60_04	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larsim	v06_48_00	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larsoft_data	v1_02_01	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
larsoft	v06_78_00	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larsoftobj	v1_45_00	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
larwirecell	v06_13_01	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
lbne_raw_data	v1_04_24	-f Linux64bit+2.6-2.12 -q e15:nu:prof:s65	-z /cvmfs/dune.opensciencegrid.org/products/dune
leveldb	v1_20a	-f Linux64bit+2.6-2.12 -q e15	-z /cvmfs/larsoft.opensciencegrid.org/products
lhapdf	v5_9_1k	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
libwda	v2_24_0	-f Linux64bit+2.6-2.12	-z /cvmfs/larsoft.opensciencegrid.org/products
libxml2	v2_9_5	-f Linux64bit+2.6-2.12 -q prof	-z /cvmfs/larsoft.opensciencegrid.org/products
lmbd	v0_9_21	-f Linux64bit+2.6-2.12	-z /cvmfs/larsoft.opensciencegrid.org/products
log4cpp	v1_1_3a	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
marley	v1_0_0d	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
messagefacility	v2_01_06	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
mrbs	v1_16_00	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
mysql_client	v5_5_58	-f Linux64bit+2.6-2.12 -q e15	-z /cvmfs/larsoft.opensciencegrid.org/products
nucondb	v2_2_2	-f Linux64bit+2.6-2.12 -q e15:p2714b:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
numsimdata	v1_12_02	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
nutools	v2_21_04	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
opencv	v3_3_0c	-f Linux64bit+2.6-2.12 -q e15	-z /cvmfs/larsoft.opensciencegrid.org/products
pandora	v03_07_00c	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
pdfsets	v5_9_1b	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
postgresql	v9_6_6a	-f Linux64bit+2.6-2.12 -q p2714b	-z /cvmfs/larsoft.opensciencegrid.org/products
protobuf	v3_3_1a	-f Linux64bit+2.6-2.12 -q e15	-z /cvmfs/larsoft.opensciencegrid.org/products
pycurl	v7_16_4	-f Linux64bit+2.6-2.12	-z /cvmfs/fermilab.opensciencegrid.org/products/common/db
pythia	v6_4_28j	-f Linux64bit+2.6-2.12 -q gcc640:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
python	v2_7_14b	-f Linux64bit+2.6-2.12	-z /cvmfs/larsoft.opensciencegrid.org/products
range	v3_0_3_0	-f NULL	-z /cvmfs/larsoft.opensciencegrid.org/products
root	v6_12_04e	-f Linux64bit+2.6-2.12 -q e15:prof	-z /cvmfs/larsoft.opensciencegrid.org/products
sam_web_client	v2_0	-f NULL	-z /cvmfs/fermilab.opensciencegrid.org/products/common/db
setpath	v1_11	-f NULL	-z /cvmfs/fermilab.opensciencegrid.org/products/common/db
snappy	v1_1_7a	-f Linux64bit+2.6-2.12 -q e15	-z /cvmfs/larsoft.opensciencegrid.org/products

```
sqlite      v3_20_01_00  -f Linux64bit+2.6-2.12      -z /cvmfs/larsoft.opensciencegrid.org/products
tbb         v2018_2      -f Linux64bit+2.6-2.12 -q e15:prof      -z /cvmfs/larsoft.opensciencegrid.org/products
tensorflow  v1_3_0c     -f Linux64bit+2.6-2.12 -q e15:p2714b:prof -z /cvmfs/larsoft.opensciencegrid.org/products
TRACE      v3_13_04    -f Linux64bit+2.6-2.12      -z /cvmfs/larsoft.opensciencegrid.org/products
ups        v6_0_7      -f Linux64bit+2.6-2.12      -z /cvmfs/larsoft.opensciencegrid.org/products
wirecell   v0_7_0      -f Linux64bit+2.6-2.12 -q e15:prof      -z /cvmfs/larsoft.opensciencegrid.org/products
xerces_c   v3_2_0a     -f Linux64bit+2.6-2.12 -q e15:prof      -z /cvmfs/larsoft.opensciencegrid.org/products
xrootd     v4_8_0a     -f Linux64bit+2.6-2.12 -q e15:prof      -z /cvmfs/larsoft.opensciencegrid.org/products
```

We tried running using the stricter setup but still got the same exception.

#### #4 - 06/11/2018 11:50 AM - Lynn Garren

Since you have a local build of larana, you probably also need a local build of dunetpc.

#### #5 - 06/12/2018 04:17 AM - Nick Grant

Thanks very much for the suggestion. We tried a new build with local copies of both larana and dunetpc, and set it up using the stricter setup as suggested. However we still got the same exception.

#### #6 - 06/18/2018 10:38 AM - Kyle Knoepfel

- Status changed from Accepted to Feedback

Do you see this problem when using the CVMFS-distributed version of larana and dunetpc?

#### #7 - 06/19/2018 03:10 AM - Nick Grant

We still see exactly the same exception when using the cvmfs-distributed versions of larana and dunetpc.

In the meantime, we have found that it's possible to run the code without any exception by sending the job to the Warwick batch system and increasing the memory allocation for myself (I get std::bad\_alloc with the exception). However my colleague at Warwick tried the same thing and he still got the exception (he does not get std::bad\_alloc).

#### #8 - 07/17/2018 10:01 AM - Kyle Knoepfel

Nick, my apologies for not following up with you. What is the current status of this issue? Is it still a problem for you that needs some analysis, or have you found a way forward.

#### #9 - 07/18/2018 07:47 AM - Nick Grant

Hi Kyle, The problem is still unresolved and it is still an issue for my colleague. For myself I have found a workaround by submitting everything to the Warwick batch system and requesting extra memory with -M. This does not work for my colleague (I always get std::bad\_alloc with the exception but my colleague doesn't get it).

#### #10 - 07/24/2018 10:58 AM - Kyle Knoepfel

Nick, /data/t2k is not mounted on the dunegpvm. Can you put the input file in a location that I can access? If it's not too large, it can be attached to this issue.

#### #11 - 07/24/2018 11:54 AM - Nick Grant

Kyle, The input files were made at Fermilab and I copied them to Warwick. They are at /pnfs/dune/scratch/users/sgreen/v06\_77\_00\_UpdatedReconstruction\_4GeV\_Beam\_Cosmics\_SpaceCharge\_v2/updatedreco/

#### #12 - 07/24/2018 02:11 PM - Kyle Knoepfel

Thanks. I confirm that I have access to the file, and I am able to process it. Stay tuned.

#### #13 - 07/24/2018 03:12 PM - Kyle Knoepfel

With the configurations I have available, I'm getting the following error:

```
---- EventProcessorFailure BEGIN
EventProcessor: an exception occurred during current event processing
---- Geometry BEGIN
cannot find the gdmf geometry file:
protodune_nowires.gdmf
bail ungracefully.
---- Geometry END
---- EventProcessorFailure END
```

These are the directories on FW\_SEARCH\_PATH:

```
[knoepfel@woof dune-bad-alloc]$ echo $FW_SEARCH_PATH | tr : \\n
```

```
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00/FieldResponse
/cvmfs/dune.opensciencegrid.org/products/dune/dunetpc/v06_78_00/gdml
/cvmfs/dune.opensciencegrid.org/products/dune/dunetpc/v06_78_00/scripts
/cvmfs/dune.opensciencegrid.org/products/dune/dunetpc/v06_78_00/gdml
/cvmfs/dune.opensciencegrid.org/products/dune/dunetpc/v06_78_00/config_data
/cvmfs/dune.opensciencegrid.org/products/dune/dune_raw_data/v1_17_06/files
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00/SpaceCharge35t
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00/PhotonPropagation/LibraryData
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00/PhotonPropagation
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00/OnlineChannelMaps35t
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00/GenieFluxFiles
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00/FieldResponse
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00/ADCStuckCodeProbabilities35t
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00/FieldResponse
/cvmfs/dune.opensciencegrid.org/products/dune/dune_pardata/v01_30_00
/cvmfs/dune.opensciencegrid.org/products/dune/lbne_raw_data/v1_04_24/files
/cvmfs/larsoft.opensciencegrid.org/products/larpandora/v06_27_01/scripts
/cvmfs/larsoft.opensciencegrid.org/products/larana/v06_19_07/config_data
/cvmfs/larsoft.opensciencegrid.org/products/larsim/v06_48_00/G4
/cvmfs/larsoft.opensciencegrid.org/products/larsoft_data/v1_02_01
/cvmfs/larsoft.opensciencegrid.org/products/larsoft_data/v1_02_01/SupernovaNeutrinos
/cvmfs/larsoft.opensciencegrid.org/products/larsoft_data/v1_02_01/pdf/MUSUN
/cvmfs/larsoft.opensciencegrid.org/products/larsoft_data/v1_02_01/pdf/Gaisser
/cvmfs/larsoft.opensciencegrid.org/products/larsoft_data/v1_02_01/PhotonPropagation/LibraryData
/cvmfs/larsoft.opensciencegrid.org/products/larsoft_data/v1_02_01/ParticleIdentification
/cvmfs/larsoft.opensciencegrid.org/products/larsoft_data/v1_02_01/Genfit
/cvmfs/larsoft.opensciencegrid.org/products/larsoft_data/v1_02_01/Argoneut
/cvmfs/larsoft.opensciencegrid.org/products/larsoft_data/v1_02_01/uboone
/cvmfs/larsoft.opensciencegrid.org/products/marley/v1_0_0d/Linux64bit+3.10-2.17-e15-prof/share/marley/structur
e
/cvmfs/larsoft.opensciencegrid.org/products/marley/v1_0_0d/Linux64bit+3.10-2.17-e15-prof/share/marley/react
/cvmfs/larsoft.opensciencegrid.org/products/larcore/v06_19_03/gdml
/cvmfs/larsoft.opensciencegrid.org/products/larcore/v06_19_03/gdml
/cvmfs/larsoft.opensciencegrid.org/products/larcorealg/v1_21_00/gdml
/cvmfs/larsoft.opensciencegrid.org/products/larcoreobj/v1_23_00/gdml
.
/grid/fermiapp/lbne/lar/aux
```

Is there an additional path that should be added to FW\_SEARCH\_PATH that I'm not aware of?

#### #14 - 08/06/2018 10:46 AM - Kyle Knoepfel

Is there any update here? As I mentioned in the previous note (issue [#20108-13](#)), I am not able to reproduce due to an incorrect configuration. Please provide me with a correct configuration so that I diagnose the problem.

#### #15 - 08/20/2018 08:58 AM - Nick Grant

Kyle, Apologies for the delay in replying, I've been away on vacation.

The exception "cannot find the gdml geometry file: protodune\_nowires.gdml" is caused by running over ProtoDUNE simulated data with the .fcl file configured for the far detector. Sorry I should have advised you to change the configuration.

While I was away, my colleague moved to v06\_84\_00 and tells me he no longer gets the exception with that version. I still get it in that version when running interactively, but can run fine on the Warwick batch system by requesting more memory with -M (I get std::bad\_alloc). In view of this, I don't think it's worth pursuing this issue any further.

Thanks very much for your help in this.

#### #16 - 08/20/2018 10:34 AM - Kyle Knoepfel

- Status changed from Feedback to Closed

Okay, very good. Closing per author request.

## Files

strace.log	4.49 MB	06/07/2018	Nick Grant
------------	---------	------------	------------