

LArSoft - Bug #14406

Part of the migration scripts are broken after moving them into directories

11/04/2016 02:46 PM - Gianluca Petrillo

Status:	Closed	Start date:	11/04/2016
Priority:	Normal	Due date:	
Assignee:	Lynn Garren	% Done:	100%
Category:	Other	Estimated time:	2.00 hours
Target version:		Spent time:	2.00 hours
Occurs In:	v06_11_00	Co-Assignees:	
Experiment:	-		

Description

With the move of migration scripts into `#{LARSOFT_DIR}/bin` subdirectories on LArSoft 6.11 ([larsoft:d2e0b4494d7b939216494a3485ce622d0da359cb](https://larsoft.slac.stanford.edu/bugs/larsoft:d2e0b4494d7b939216494a3485ce622d0da359cb)):

1. moved scripts are not available via PATH: users have to find the scripts and specify the full path
2. python scripts which use `SerialSubstitution.py` library fail to find it

The first point may be "solved" by updating the documentation, as it is not reasonable to pollute PATH list with the subdirectories. The second point needs to be investigated. Either a programmatic solution is found, or a copy or symbolic link of the library must be stored with each python script.

History

#1 - 11/04/2016 03:18 PM - Lynn Garren

Are all scripts still needed?

#2 - 11/07/2016 10:24 AM - Lynn Garren

- Status changed from New to Assigned

- Assignee set to Lynn Garren

Append `LARSOFT_DIR/bin` to `PYTHONPATH`. Gianluca will verify that this is sufficient.

The instructions will be modified.

#3 - 11/30/2016 12:15 PM - Gianluca Petrillo

Adding `#{LARSOFT_DIR}/bin` to `PYTHONPATH` solves the issue. Programmatic lookup is also possible:

```
import sys, os
try:
    LArSoftLibPath = os.path.join(os.environ['LARSOFT_DIR'], 'bin')
    if os.path.isdir(LArSoftLibPath): sys.path.insert(1, LArSoftLibPath)
except KeyError: pass
```

but it is an inferior solution in terms of maintainability, requiring to change the scripts at every reorganisation (which we love to do often).

My recommendation is to create a `#{LARSOFT_DIR}/python` directory where to put python libraries, and add that to `PYTHONPATH`. The `#{LARSOFT_DIR}/bin` directory (and subdirectories) would contain only the end-user scripts.

#4 - 12/05/2016 02:17 PM - Lynn Garren

This is a workable solution.

#5 - 12/05/2016 02:51 PM - Lynn Garren

- % Done changed from 0 to 80

- Estimated time set to 2.00 h

Changes are in `larsoft develop` ready for the next release. The python directory is `#{LARSOFT_DIR}/bin/python`

#6 - 01/05/2017 11:13 AM - Lynn Garren

- *Status changed from Assigned to Resolved*

- *% Done changed from 80 to 100*

This change was implemented in larsoft v06_17_00.

#7 - 01/05/2017 11:13 AM - Lynn Garren

- *Status changed from Resolved to Closed*