

GNU/Linux Administration - Support #877

Install FlowCytometryTools on Arch Linux

11/29/2016 03:25 PM - Daniel Curtis

Status:	Closed	Start date:	11/29/2016
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Python	Estimated time:	0.50 hour
Target version:	Arch Linux	Spent time:	1.00 hour

Description

This is a guide for setting up FlowCytometryTools on Arch Linux.

Prepare the Environment

- Make sure the system is up to date:

```
pacman -Syyuu
```

- Install a few dependencies:

```
pacman -S gcc-fortran-multilib git freetype2 pkgconf png
```

NOTE: The [multilib](#) repository must be enabled in the pacman config file.

NOTE: To use the FlowCytometryTools GUI, wxPython must be installed as well:

```
pacman -S wxpython2.8
```

- Setup a Python development environment, refer to issue [#876](#)

Install FlowCytometry with Pip

- Switch to the pydev user:

```
su - pydev
```

- Create the FlowCytometryTools virtualenv:

```
virtualenv2 FCT
```

- Activate the virtualenv:

```
source ./FCT/bin/activate
```

- **NOTE:** If using the GUI utility, create a symbolic link of the host wxpython library in the virtualenv library:

```
ln -s /usr/lib/python2.7/site-packages/wx.pth ~/venv/FCT/lib/python2.7/site-packages/
```

- Install FlowCytometryTools:

```
pip --no-cache-dir install flowcytometrytools
```

NOTE: I needed to install ipython inside the virtualenv, deactivate, then reactivate for the interactive shell to work:

```
pip install ipython
```

Install FlowCytometryTools from GitHub

- Switch to the pydev user:

```
su - pydev
```

- Create the FlowCytometryTools virtualenv:

```
virtualenv FCT
```

- Activate the virtualenv:

```
source ./FCT/bin/activate
```

- Clone the FlowCytometryTools from GitHub:

```
git clone https://github.com/eyurtsev/FlowCytometryTools.git  
cd FlowCytometryTools
```

- Run the install script:

```
python setup.py install
```

Resources

- <https://github.com/eyurtsev/FlowCytometryTools>
- <https://pypi.python.org/pypi/FlowCytometryTools>
- <http://eyurtsev.github.io/FlowCytometryTools/install.html>
- <http://eyurtsev.github.io/FlowCytometryTools/tutorial.html>

History

#1 - 11/29/2016 03:57 PM - Daniel Curtis

- Description updated

- Status changed from New to Resolved

- % Done changed from 0 to 100

#2 - 11/29/2016 08:41 PM - Daniel Curtis

- Description updated

#3 - 06/04/2017 08:53 PM - Daniel Curtis

- Status changed from Resolved to Closed