Appion - Feature #1757

use eman2 in makestack2.py
04/23/2012 02:02 PM - Anchi Cheng

Status: Assigned  Start date: 04/23/2012
Priority: High  Due date: % Done: 0%
Assignee: Anchi Cheng  Estimated time: 0.00 hour
Category: Python scripting  Spent time: 0.00 hour
Target version: Appion/Leginon Future Version

Description
We have decided to use EMAN2 functions in 3.0 release since EMAN1 have some library issue when used in CentOS 6.3 (current release).

Let's start at makestack2.py. I will log issues encountered here.

Related issues:
Related to Appion - Bug #1524: applyctf from EMAN 1.9 release causes strip in...  Closed  01/17/2012
Blocked by Appion - Bug #1827: EMAN1 produces artifacts on CentOS 6  Closed  05/29/2012

History
#1 - 04/23/2012 02:16 PM - Neil Voss
First of all, if you download the daily snapshot of EMAN1 (not 1.9) it works fine on CentOS 6.

But, I removed the batchboxer part, so as far as I can tell the only thing left is:

1. applyctf (lines 334-392), which is only used if EMAN1 CTF correction is checked, otherwise it uses ACE2

2. particle filtering (lines 561-590), e.g., low pass, high pass, and convert to spider -- which if we are going to rewrite, we might as well use python instead of proc2d.

3. merging of image stack into big stack (lines 561-590) -- already a python function for this, but it lacks the particle filtering from #2.

4. conversion to spider for filters.phaseFlipImage() (lines 539-552) -- why are we even using proc2d when we have mrc.py and spider.py in pyami

#2 - 04/23/2012 02:50 PM - Anchi Cheng
- Assignee changed from Anchi Cheng to Neil Voss

Neil,
Try running proc2d on the stack in #1524 and see if you can get it to work. I certainly can not. Which subversion to you have on CentOS 6? The problem appears on CentOS 6.2 and up.

#3 - 04/23/2012 06:48 PM - Neil Voss
Hmm, I will try it again tomorrow. When I upgraded to CentOS 6.2, I got the library error - downloaded the daily snapshot and it worked fine.

#4 - 04/25/2012 09:02 AM - Neil Voss
Hi Anchi, I ran sudo yum update on my CentOS 6.2 machine downloaded the daily snapshot x86_64-cluster from EMAN1 site and everything works fine. Tried proc2d a few different ways. Tried it on Fedora 16 as well, no problems. RHEL 6.3 is still in beta, so CentOS 6.3 is not out yet.

http://ncmi.bcm.edu/ncmi/software/eman/software_78/manage_addProduct/NCMI/attendee_factory?myname=eman.daily.linux64-cluster.tar.gz

#5 - 05/29/2012 08:59 AM - Neil Voss
- Assignee changed from Neil Voss to Anchi Cheng

can we close this bug?

#6 - 05/29/2012 09:12 AM - Neil Voss
Hi Anchi, just as I sent this to you, the artifacts showed up in my max like alignment after the stack was converted. But the stack is completely fine... hmm.
- Target version changed from Appion/Leginon 3.0.0 to Appion/Leginon Future Version