Use MotionCorr2 program to flip and rotate gain reference

Since MotionCorr2 does not output frame stack, there is no need to flip the frames. This feature uses the gpu program option to flip/rotate the gain instead. Appion then flip/rotate back the corrected images when correction is made.

Related issues:
Related to Appion - Feature #4512: Add MotionCor2 from UCSF to appion

Associated revisions
Revision 9bb163ca - 10/06/2016 08:43 PM - Anchi Cheng
refs #4511 use MotionCorr2 to flip and rotate the gain and transform the result back to that of the gain at the end in appion

Revision 795d3bef - 10/20/2016 12:16 AM - Anchi Cheng
refs #4511 case for needing bad pixel correction

Revision 44121d27 - 10/29/2016 09:57 AM - Anchi Cheng
refs #4511 make motioncor2 drift graph the same orientation as motioncorr

History
#1 - 10/06/2016 08:59 PM - Anchi Cheng
- Subject changed from Use MotionCorr program to flip and rotate movie frames when possible to Use MotionCorr2 program to flip and rotate gain reference
- Description updated
- Status changed from New to Assigned

#2 - 10/06/2016 09:07 PM - Anchi Cheng
9bb163ca added this feature which speeds things up a lot. However, I only tested on flip since that is what I have in hand, please try it out. If you have rotation, check if it is rotation correctly and debug or update here to let me know. Thanks.

#3 - 10/06/2016 10:59 PM - Anchi Cheng
- Related to Feature #4512: Add MotionCor2 from UCSF to appion added

#4 - 11/14/2016 06:34 PM - Anchi Cheng
Could all of you watching and using motioncor2 in Appion tell me if I have caused a flip in the aligned images by this? Somehow instead of flipping the gain as I assume from its option, MotionCor2 is flipping the frames, I think which is fine by me, just need to remove the extra flip I added at the end.

#5 - 11/14/2016 11:48 PM - Anchi Cheng
Looks like if I use MotionCor2-10-19-2016, the orientation is consistent with frame not flipping, just gain flipped.

#6 - 01/23/2018 11:23 AM - Anchi Cheng
- Status changed from Assigned to Closed

works