omero processing and octave package

David Pinto / carandraug

Micron Oxford
Advanced BioImaging Unit
(the basement)

2015–06–02

Unfortunately, mostly driven to keep source and applications
away from the user.

Basic overflow

1. parse options
2. get images
3. processing
4. import image
5. annotate

processing block Individual processing steps, e.g., denoising
with a specific algorithm, channel alignment, SI
reconstruction.

processing chain A collection of processing blocks

Think bash command with pipes.

- bin block
- pipe block
- matlab block

I am very generous with whitespace.

- script for denoise 750 lines to 150 (mostly comments and license header)
- script for localization microscopy is around 100 lines (mostly input check)

Octave interface to bioformats

- reuse existing omero toolbox
- Octave java interface sucks
- thank you for merging some octave specific changes
- still fails for some images (fault is on me, related to box and unboxing between java arrays)