Use of computational methods for Image Visualization and Analysis

via Kepler and imageJ

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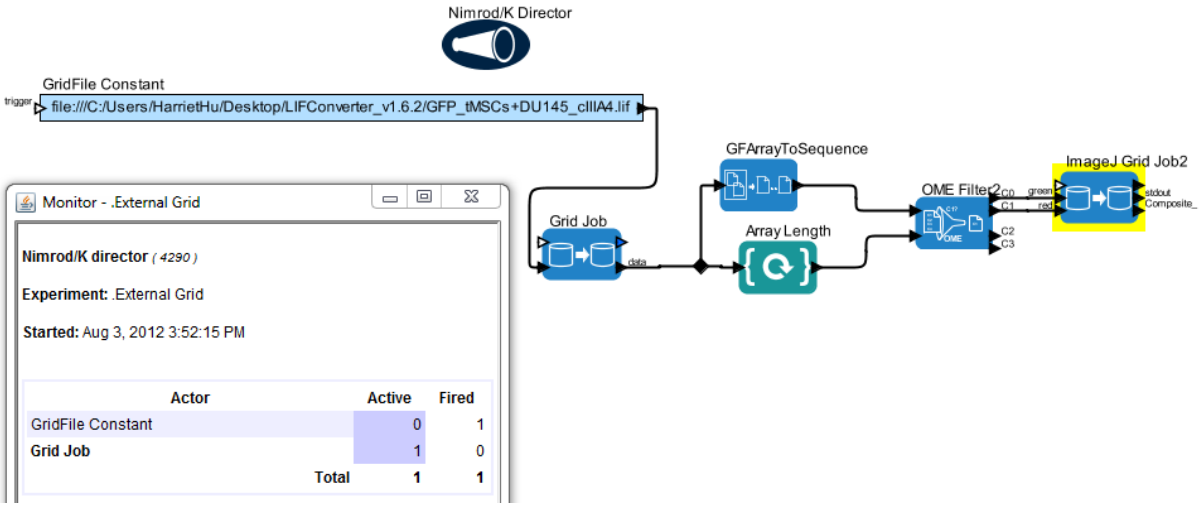
Progress

- Downloaded ExcelWriter plugin, and read through macros to see how to integrate into Gridjob to complete image analysis
- Integrated LIFConverter—directly processed to create composites for analysis
- Discussed possible solutions for filename conflict when generating new images



Difficulties and Hurdles

- Parallel processing on Nimrod/K creates a “filename conflict” problem, where the images I generate no longer retain its original filename
  - Tried using a counter, but it creates duplicates on each image generated
  - Instead, I’ve just inserted a random generator to temporarily work around the problem. After discussing with Colin, this problem has been a recurring thing in parallel processing, and we are discussing a solution.
- ExcelWriter lacks documentation, and the ImageJ recorder does not record actions taken. I will have to research for current commands in order to use it in GridJob

Tentative Plans

- Determine how to integrate image analysis into Gridjob, and output necessary results into Excel
  - ImageJ script for analysis of tMSC ratio
- Discuss with Dr. Vail about how to increase efficiency and usability of Nimrod/K
- Update workflows on the Biochemistry department computer
- Skype with Dr. Altintas back in UCSd about current progress

Great Ocean Road(trip)

PRIME 2012 students: Harriet Hu, Brian Becerra
MURPA (2008, 2012) : Hoang Nguyen, Minh Huynh

Curious Menagerie of Random Things

HK Style Toast w/Almond Ice Cube

Hamburger w/ Bacon and Pineapple Slice

Well-designed waterfountains; Chinatown Nightmarket

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