Phylanx Meeting Notes

September 21, 2017

* Adrian, Ali, Bibek, Rod, Parsa, Hartmut, Steve, Stefan, Kevin, Kate, Chris
* Kevin-
  + Traveling this week
  + Will start working with Monil next week
    - Buildbot, policies, etc.
* Kate-
  + Planning to start tomorrow to get everything running on machines at Arizona
    - Would like to get a basic HPX traits
    - Should have all of the hooks that I need
* Stefan-
  + Did not have much time to work on this project this week
  + Was able to describe the model in the proposal in a little more detail
    - Prompted some questions
    - Can we make some assumptions about the graph?
      * What can we provide as values to the cost function
      * Spartan makes an assumption that for every incoming edge they assume a static cost
        + Perhaps we can assume that all nodes are Marticies
        + Hartmut- I think that this is a good starting place
* Chris-
  + Was able to compile the repo
  + Had a series of meeting with my finance people to find a new way to deliver money
    - DTIC (Defense Technical Information Center)
      * Can contract a year’s worth of work
        + Need a SOW and the rest is handled
      * Would contact with each university
    - There is a catch…. We cannot provide all of the money upfront
      * That shouldn’t be a problem
* Parsa-
  + Implemented a dot-product and division primitives
    - Still need to write tests
* Hartmut-
  + Worked on the Python part of the build system
    - Working on the ability to run Python based tests
    - Hope to get this done by the end of the week
  + Modified the CircleCI configuration so that it produces a Docker image with every successful build
    - Should we have a Singularity container as well?
      * Hartmut- can we bookmark this until we have more of a product to push
* Steve-
  + I have been making some minor updates to the Python scripts
  + Writing a python wrapper that does not take a string
* Rod-
  + Worked on Python bindings
  + Worked on the execution tree
  + I am not sure where we should hook into the API
    - I think we should hook into the user level API
    - Take a Simpy graph and generate a Phylanx graph which is then optimized and executed
* Ali-
  + Working on Matrix multiply
    - Using Igen
    - Should be able to create a pull request soon
* Bibek-
  + Implemented the subtraction primitive
  + Fixed a bug with the tests
* Adrian-
  + Hartmut created a website this week
    - I have added some text of the website
    - Will generate some content from the Kickoff meeting
* Next Meeting: Thursday September 21, 2017 at 3pmET/2pmCT/12pmPT Webex