Phylanx Meeting Notes

March 1, 2018

* Adrian, Stefan, Steven, Rod, Bibek, Parsa, Ali, Shahrzad, Hartmut, Chris, Kate, Katy, Kevin, Monil
* Chris
  + Completed integrating Strassen Matrix Multiplication with Martin Order transversal
  + Tree transducer work
  + Promoting the project to a broader community base
    - Garnering some interest
* Ravel
  + Katy
    - Made an Icylcle plot
      * Got it up to the same functionality as the web version
    - Making these available for users
  + Kate
    - Making Web version of base Ravel work better with OTF2
      * So we will be ready for the global IDs
* APEX
  + Been looking at adding global unique identifier for each thread
    - During task creation we need an APEX hook
    - I want to put the dependencies between tasks in the OTF2 trace
  + Monil
    - Completed Numpy, Dask, SciKit Learn, Tensor flow comparisons
      * Added it to the Phylanx\_data repo
* Tiling
  + Stefan
    - Advertising the postdoc position
      * Have two submissions already
      * Plan to ask some people at LSU as well
    - Working with trees
      * I might need to run Phylanx
      * Hartmut- Parsa please help Stefan get things installed
* Primitives & Algorithms
  + Bibek
    - Creating gradient primitive
    - Enabling mixed dimensionalities for h-stack and v-stack
    - Trying to reproduce the issue on Power8 in slicing primitive
  + Parsa
    - Created shuffle, argmin, and argmax
    - Has refactored many of the primitives
  + Shahrzad
    - Working implementation of ALS in PhySL
      * Results are currently matching for small test cases
    - Created “all” and “any” primitives
  + Ali
    - Improved the build system
    - Improving use of Phylanx on Rostam
      * Installing a version of HPX
* Python
  + Rod
    - Addressing issues which came up in the seminar
    - Properly return line numbers in error messages for PhyFun
    - Print statements are now properly redirected to python
      * Still in a branch
      * Fixes issues in Jupyter notebook
    - Parsa implemented a Python code checker
    - Trying to resolve issues with flask
  + Steve-
    - Working to get for loops to be more extensive
    - Issues with slice
* Monthly Reports
  + Chris-
    - Would Adrian be willing to compile everyone’s monthly report?
      * Yes
      * I was planning to get each team to provide me with a report
* Agenda
  + I have posted a draft agenda
    - Let me know if you have suggestions
      * What people need to meet with which people
  + Chris-
    - I am planning to bring some people to the meeting
    - Adrian- Let me know how many people you are planning to bring
      * 3-6 people but I will let you know
* Next Meeting: Thursday March 8th at 3:30pmET/2:30pmCT/1:30pmMT/12:30pmPT via Webex