Phylanx Meeting Notes

March 8, 2018

* Adrian, Shahrzad, Parsa, Steve, Monil, Rod, Ali, Stefan, Chris, Kevin
* Chris
  + Managed to get two of the four algorithms for the weighted tree translation
  + Debugging Morton Strassen Diagram
* Ravel
  + Kate (via email)
    - Working on the Gantt chart
    - Looking forward to Kevin’s changes
    - How does Katy’s visualizations work in Jupyter
      * If they are working, we can then work on making them nicer within the Jupyter framework and start looking into using the line/col data for something nicer.
      * Steve and Rod will look into this
* APEX
  + Kevin
    - Sent an email out on Monday about the refactoring in APEX
      * Have everything working in APEX
      * Need to integrate these changes into HPX
        + We are generating GUIDs
        + Will be using this for task dependency tracking
        + Added an attribute to OTF2 for this
      * Talked with Nick about the Critical Path analysis
        + He is leery of this
        + Will try to make this work
      * I can output a task graph
        + Could integrate this with Kate’s tool
  + Monil
    - Worked on implementing the mean primitive
* Tiling
  + Working to get Phylanx installed on my Mac
    - Parsa- I will help you resolve this today
  + Sent the job add to a few more people
    - Have a few potential candidates
* Primitives & Algorithms
  + Bibek-
    - Parsa-
      * Refactored primitives
      * Shuffle primitive
      * CircleCI 2.0
      * Fixed issues with Docker images
    - Shahrzad
      * ALS running with bigger data sets
        + Implemented in PhyFun and PhySL
    - Bibek-
      * Column slicing and set primitive
      * Submitted a fix for the Power8 machines
        + Should work…
      * Elements.h header file was missing from a few primitives
      * Added the new tree format to the interpreter
        + Can use the PhySL interpreter with Katy’s visualization tool
      * Can mix dimensions in h-stack and v-stack
    - Ali-
      * Setting up a PowerPC locally
* Python
  + After changes to Pybind we have fixed the Jupyter notebook problem
  + Have an issue with empty PhySL blocks
  + Found an issue with tree transversal
* Next Meeting: Thursday March 15th at 3:30pmET/2:30pmCT/1:30pmMT/12:30pmPT via Webex