Phylanx Meeting

March 15, 2018

* Adrian, Hartmut, Bibek, Rod, Parsa, Shahrzad, Ali, Kate, Katy, Kevin, Monil, Stefan, Steve
* Chris
  + Transducers
    - Found a “technology gap” in the paper I was following
  + Made improvements in Strassen code
  + Will continue to push on BAH
    - Will also ask about the pre-award spending
* Ravel
  + Katy-
    - Working on adding thresholds
      * Only events more than a certain time will be shown
    - Hartmut-
      * Async timings should be fixed
      * Pretty names have been added
  + Gantt Chart
    - Trying to fix issues in the i-th dimension zooming
    - Have a project with GSoC
* APEX
  + Kevin
    - Started refactoring HPX to use the new APEX timers
    - Got an email from Bibek
      * Will jump back into this after I finish the refactoring
    - Hartmut-
      * Paper
        + ICCP will be at UO
        + Should we submit a paper?
        + Kevin- we can try
      * I wrapped direct and regular actions in annotated functions
    - Buildbot builds are back “working”
      * Still have issues with KNL and Power8 in Debug
  + Monil
    - Last week I created a performance profile for Phylanx
      * Our execution time is slightly longer that other tools
      * Faster than tensor flow
    - Created a primitive
      * Hartmut- waiting on testing infrastructure
* Tiling
  + Stefan
    - Sat with Parsa
      * Got HPX and Phylanx to compile
    - Been looking at post docs
      * Plan to do interviews next week
* Algorithms & Primitives
  + Bibek
    - Fixed Power8 issue and Issues with Clang
  + Ali
    - Working to add the Power8 machine locally
    - Has been added to Rostam
    - Kevin, how did you build Clang on Power8?
      * Kevin- I will look into it
  + Shahrzad
    - Performed some performance analysis
      * Four times slower
      * But found an issue with the way we are doing timings
  + Parsa
    - Working on K-Means algorithm
    - A hacky version is running
* Python
  + Rod
    - Two pull request
      * One allows us to call decorated functions from other decorated functions
      * OpenScop Backend
        + Creates an OpenScop file
    - Have a fix for Jupyter print
    - Have a fix for
* Chris-
  + Can we use Alpine Linux for our Docker Image?
* Adrian
  + Should we have an all-day meeting on Friday?
    - How much information do we need to provide Chris’ guests?
      * A quick overview (like currently planned) should be fine
    - We will plan on filling all time
  + For What are the technology gaps?
* Hartmut-
  + Phylanx
    - I have created a Map and Filter
    - Working on Fold
    - Added Lambda’s to PhySL
  + Machine Learning in HPC is becoming a hot topic
    - Heard a lot about this at the conference in Tokyo
    - We are on the right track
* Next Meeting: Thursday March 22nd at 3:30pmET/2:30pmCT/1:30pmMT/12:30pmPT via Webex