Phylanx Meeting Notes

November 2, 2017

\*\*\*Note: Adrian was not present for this meeting, notes were taken by Hartmut\*\*\*

Stefan, Chris, Steve, Parsa, Rod, Alireza, Bibek, Hartmut.

Kevin: builds are still failing, x86 builds crashing in 4 of the tests

Monil: PR for jemalloc warning

Kevin: in the future announce breaking changes like additional requirements

for build system, Kevin looks into LAPACK/BLAS integration with Blaze

Chris: will give report to customer tomorrow

- first algorithm runs

- many primitives

- publicly visible report

- socializing project

- staffing, number of people

- future work, Kate's work, C++ integration

New algorithm: Markov-chains

HPX: stack-overflow detection fix

Blaze: space-filling curves, unit testing - 2 tests are not passing yet

Finite state transducers: make choices based on statistics analysis

Kate: everything works - first data collected

- comparative viz of traces

- guessing what people want to see

Schedule meeting at SC: Kevin/Kate/Hartmut

Stefan: no news, has watched video

Steve: no news

Parsa: migration to Blaze done, BLAS/LAPACK are not required

- cross product, sqr/power in pipeline

Rod: preparing talk

- planned architecture of front-end

- possible optimizations

- using SymPy as basis for frontend

Alireza: CSV input/output

- NumPy text format

Bibek:

- slicing done

- PR for row and column slicing