

Biweekly MSc Thesis Progress Presentation – Lukas Strebel

July 11, 2018



CSCS

Centro Svizzero di Calcolo Scientifico
Swiss National Supercomputing Centre



Eidgenössische Technische Hochschule Zürich
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Working on

- Library design / implementation
 - Provide `communicate()` for each stencil – execute on subdivisions.
 - Still working on the communication functions for the halos.
 - MPI4Py types for halo communication – Index / Setup difficulties.

Next Milestone – July 15

- Done with incorporation of existing graph partitioning library and model implementation to produce a domain partitioning for a test case.
- Done with some basic measurements.
- Done with the design framework / API for the library.

August 15:

- Done with the implementation of all library functionality.
- Library ready for benchmarks and optimizations.