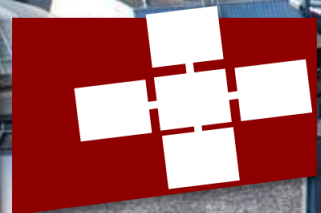


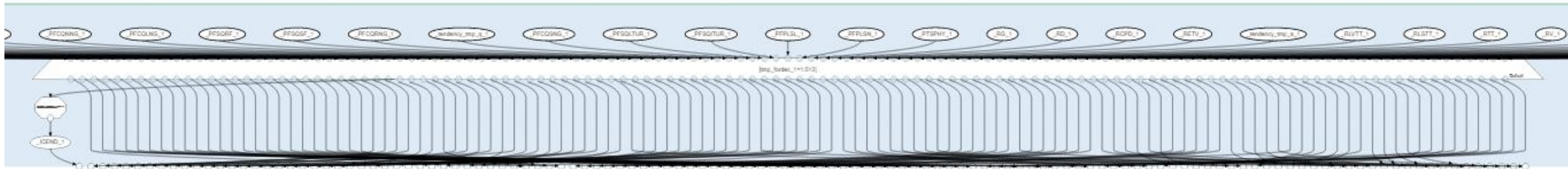
Alexandru Calotoiu

DaFIEx



Fortran frontend prototype

- **CloudSC application**



- **Fully parallel SDFG – validates correctly in serial mode**
- **Automation incomplete.**

To_GPU

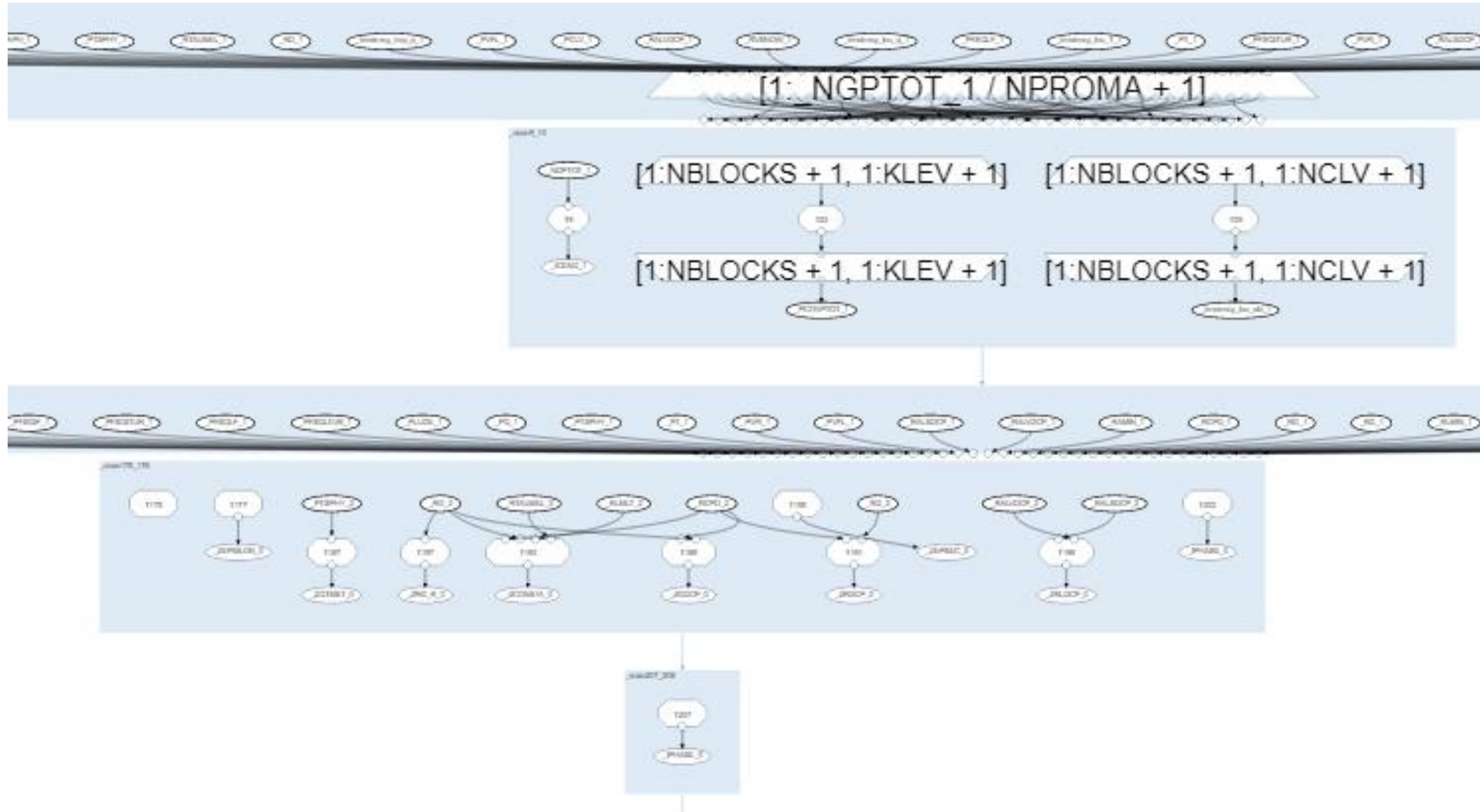
Existing implementation outdated

- Tested on smaller kernels
- Works well on small kernels
- Not suited for large applications

Research questions

- Which Maps to offload?
- What data to move?
- Should scalars or tasklets be moved?

Example



Correctness

Improve to_GPU to handle

- Nested SDFGs
- Scalars
- Single Tasklets

Additional requirements

- Map Fission
- Heuristic Map Fusion