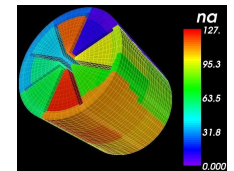


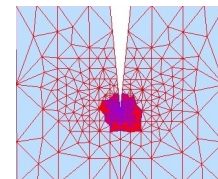
Semantics Rich Libraries for Effective Exascale Computations

- Optimized scheduling for recursive domain decomposition
 - Applications: Computational mechanics, peridynamics
 - Publications: ICS 2013
- Domain-aware partitioning strategies
 - Applications: Recursive coupling applications
 - Publications: IJNME 2016 (submitted)
- Semantics-aware multi-accelerator offloading
 - Applications: Heterogeneous apps (e.g., Jacobi)
 - Publications: ICS 2013, ICS 2015
- Semantics-based optimizations for CnC
 - Applications: LULESH
 - Publications: WolfHPC 2015, LCPC 2015

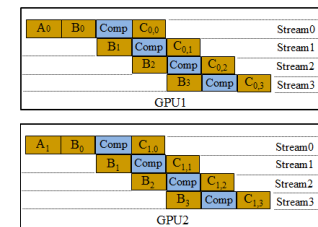
Speedups
2.5x



11x



130x



120x

