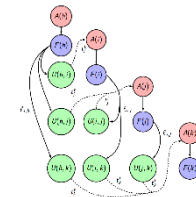
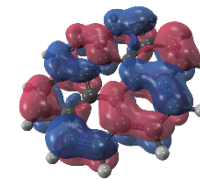
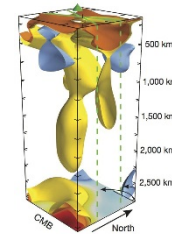
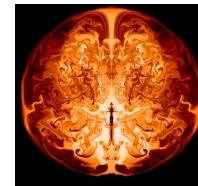


Data Structures and Runtime Support for Irregular Data-Intensive Applications

- Distributed hash table
 - Applications: HipMer (genomics)
- Irregular data exchange
 - Applications: AMR, HPGMG
- Irregular global matrix update
 - Applications: NWChem, seismic tomography
- Distributed work queue
 - Applications: NWChem, Hartree-Fock
- Dynamic task graph
 - Applications: Sparse symmetric matrix solver



Speedups

720x

1.2x

6x

1.2x

2x