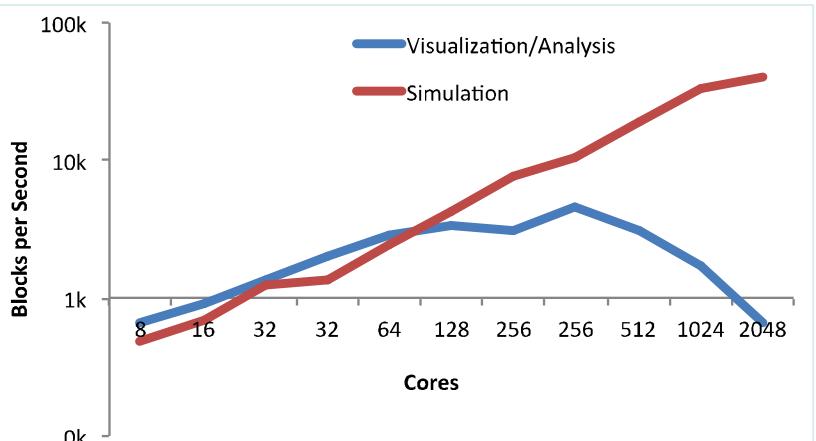
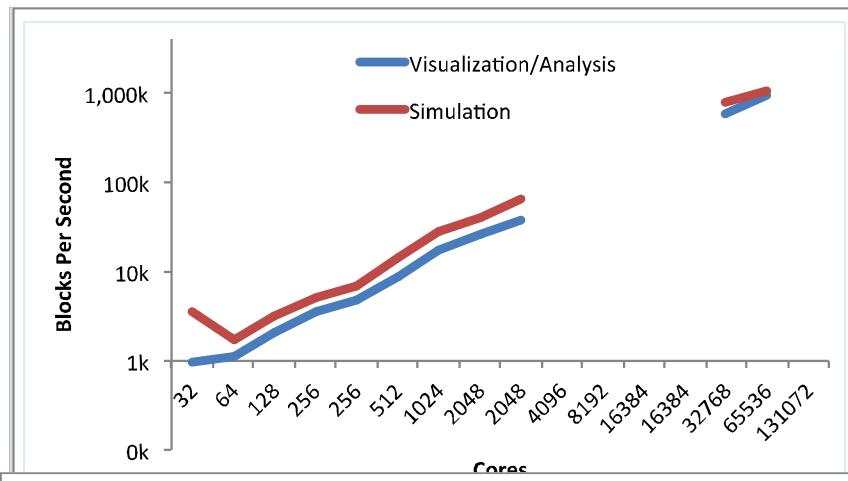


Paraview Coprocessing Scalability and Capability Testing

- Saving results to disk as simulation runs is expensive.
- ParaView CoProcessing alleviates the need by analysing data in memory
- ParaView must scale as well as the simulation
- ParaView is a large collection of capability
 - Not all will scale well

Comparison of two different filters scaling



PI: Nathan Fabian
Code: CTH + ParaView
Run time: 1.2 Cielo Days

Paraview Coprocessing Scalability and Capability Testing

- Some will scale
 - With extra information passed in
- Graph shows the filter and CTH modified to pass extra information about neighbors
 - Filter no longer needs an All-to-All to determine it

