

Motivation

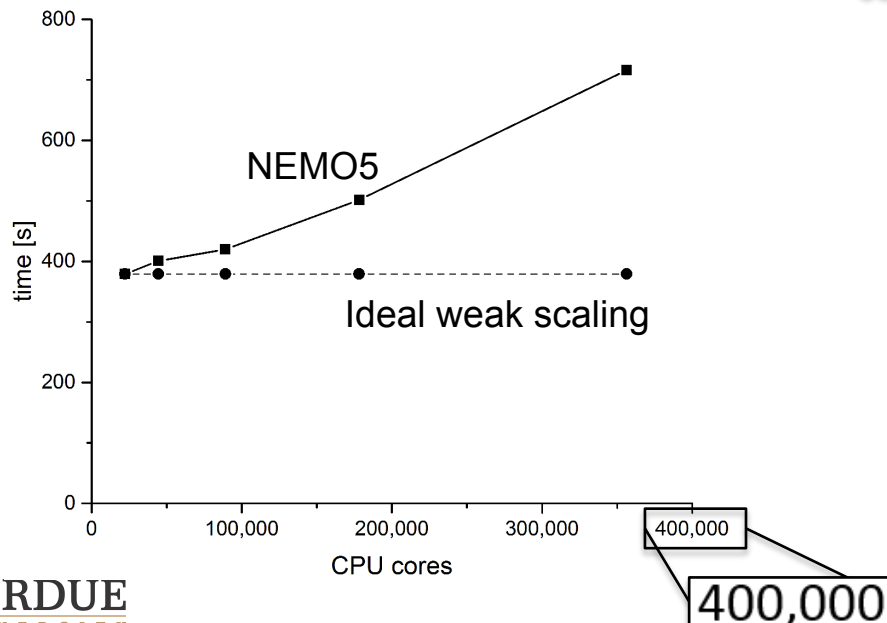
- Scaling of NEMO5 to hundreds of thousands of cores possible
- Heterogeneous computer resources available at the largest supercomputing centers should be used

Approach

- Scattering code scaling tested on up to ~300k cores, work submitted for 2015 Gordon Bell Prize competition
- Intel Xeon Phi and GPU infrastructure available for NEMO5

Results

High degree of scalability shown



Up to 2.8x speedup with Intel Xeon Phi

