Introduction

- STIC setup
- Get a better understanding of barriers and loop chunking
- Understand the overhead of barriers
- Chunking to mitigate task creation overhead and barriers
STIC(Shared Tightly-Integrated Cluster)

STIC allows you to gain access to compute nodes to obtain reliable performance timings for your programming assignments

Login to STIC as ssh netid@stic.rice.edu

source /home/smi1/dev/hjLibSource.txt

java -version, mvn –version

Sbatch, Slurm, Squeue, Scancel - Operations on jobs on STIC
Implement the parallel versions of one dimensional iterative averaging

- Forseq-Forpar
- Forseq-Forpar chunking
- Forpar-Forseq
- Forpar chunking - Forseq

For more details of parallel versions, please refer to lecture 12 slides.
// n - array size, m - number of iterations
3. HjRegion1D iterSpace = newRectangularRegion1D(1,n);
4. int nc = numWorkerThreads();
5. forallPhased(0, nc-1, (jj) ...