Introduction

- More on STIC
- DDF and Futures
- Compare speedup using different structs
- Preparation for Homework 3
HJ Futures

- async{ statement block}  
  - must has return  
  - return to a container of type `future`

- Expr.get()
  - blocks if Expr’s value is unavailable
  - get() here only waits on a specific async task

Please refer to Lecture 5
Data-Driven Futures

- `HjDataDrivenFuture<T> ddfA = newDataDrivenFuture();`
- `asyncAwait(ddfA, ......, ()-> Stmt);`
- `ddfA.put(value);`
- `ddfA.get();`
DDF vs Future

• DDF waits on all objects in asyncAwait(); each future blocks on get()

• Future does not deadlock;

• Efficiency

Please refer to Lecture 14
STIC

- login node vs. compute node
- myjob.slurm
- don’t forget to run source command
- svn checkout for both local and on STIC