COMP 322: Lab 6
DDFs and Futures

February 18, 2015

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