Introduction

- What you will learn (about tasking basics)
  - How to set up a simple loop to spawn tasks
  - How to assign task work at each node in a linked list (pointer chasing)
  - How to define dependences among sibling tasks; and create task dependences from a DAG (graph)
  - How to optimally schedule unbalanced tasks

Introduction

- What you will do
  - Read top-level README (about exercise list)
  - cd to each exercise directory
  - Read instructions file (has details)
    - LOOK OVER CODE
    - Make code changes, compiler and run
    - Answer questions

Getting Started

- Log on to Lonestar 5 with your account

```
ssh <your_tacc_login>@ls5.tacc.utexas.edu
```

- Access a node for 60 minutes, for your lab work.

```
idev -m 60 -A TRAINING-HPC
```

- Untar lab_tasking.tar file in ~train00.

```
tar -xvf ~train00/lab_tasking.tar
```

- cd to tasking directory & Read README file.

```
cd tasking
cat README
```

- cd to an exercise directory & read and follow directions in instructions file.

```
cd <exercise dir.>
```

<exercise dir>: 1_counter, 2_ptr_chase, 3_depend, 4_graph, or 5_priority