Instructions

The file `poisson2d.cuf` is to be GPU-accelerated using Kernel Loop Directive (CUF kernels).

Jacobi solver with Kernel Loop Directives

Please have a look at the file and work on the indicated lines (see 'TODO's).

- !$cuf kernel do[(n)] <<< grid, block[optional stream] >>> can be used to accelerate the loop. n is the depth of the loop.

  ```
  !$CUF Kernel Do(3) <<<*,*>>>
  ```

- Use Fortran array notation to transfer data.

  ```
  myArr=myArr_d
  ```

- Compare the results with the explicit kernel version.
- Be sure to load the custom modules of this task.

  ```
  source setup.sh
  ```

- For compilation, use

  ```
  make
  ```

- To run your code, call `srun` with the correct parameters. A shortcut is given via

  ```
  make run
  ```