

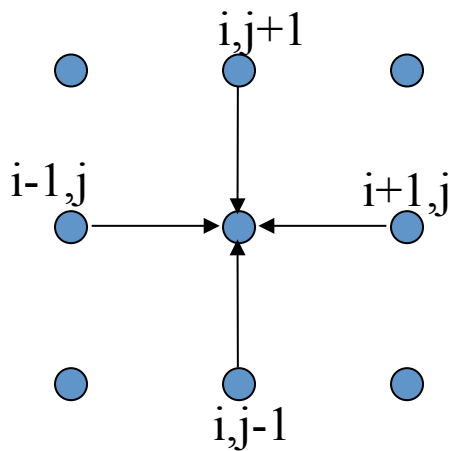
Homework 4

Open SHMEM hw #1

Return by: March 4th 2015

Stencil code with Ghost cell

- Take a 2D stencil based on the Laplace equation below, and implement it using OpenSHMEM
- Assume the matrix is distributed in a 1D block between processes



$$U_{i,j}^{n+1} = \frac{1}{4} (U_{i-1,j}^n + U_{i+1,j}^n + U_{i,j-1}^n + U_{i,j+1}^n)$$

What to turn in

- Source code and a Makefile
 - Make sure the code works as expected
- For the local computation you can use the BLAS flavor available to you (MKL, ATLAS ...) or implement your own.
- A pdf describing your findings