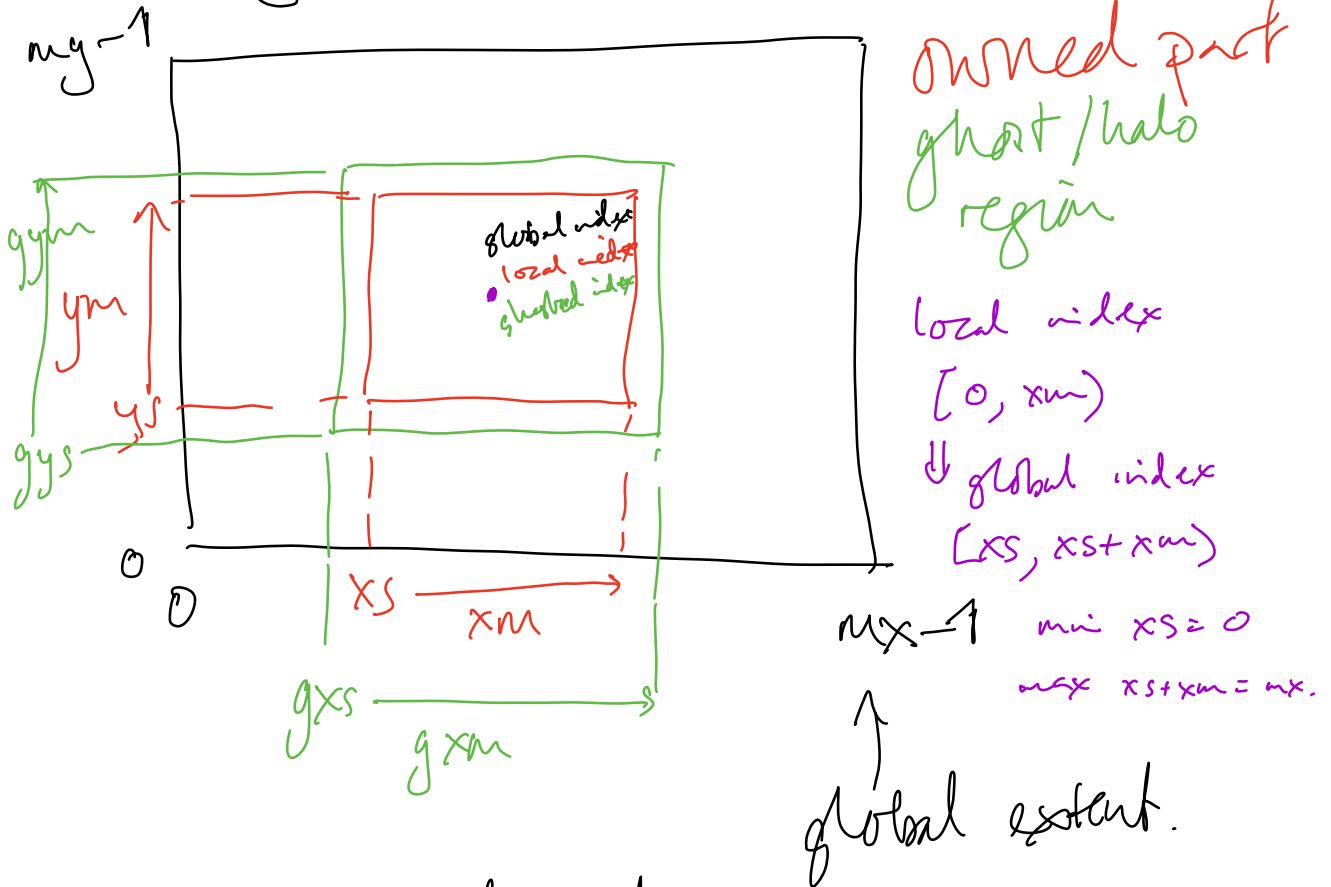


# DMDA grid layout:

Indexing:



Data layout order

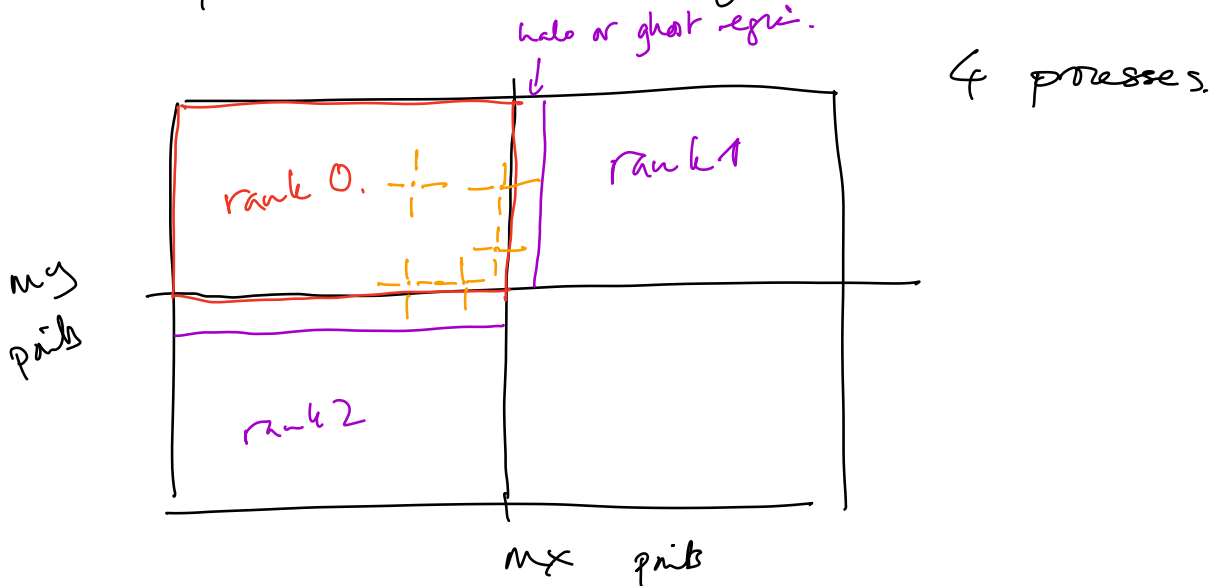
$z, y, x.$

`array.reshape(zm, ym, xm)`

Idea: domain distribution.

Utilities for:

- Vector management: Create of vectors scatter / gather between ghosted and unghosted.
- Matrix create / insertion
- Grid transfer - multijoint.



model for compute:

- fill ghost regions
- compute locally (no comm.)
- scatter results.

✓ Grid decomposition

✓ specification of stencil width.

✓ facilities for index management.

✓ facilities for filling ghost regions / scatter from ghost regions

✓ Interfaces to sparse matrix with  
& allocate.