

## Subdomain

Mat localA;  
Vec localRHS;

Local system matrix and rhs

VecScatter global\_to\_D;  
VecScatter N\_to\_B;  
VecScatter global\_to\_B;  
ISLocalToGlobalMapping  
mapping;  
PetscInt n\_neigh;  
PetscInt \*neigh;  
PetscInt \*n\_shared;  
PetscInt \*\*shared;

Scattering contexts from global to local interior nodes, local nodes to local interface nodes and global to local interface nodes.  
Information about neighbours and what they share