

0	1	2	0	1	2
u	v	p	u_c	v_c	L

Mesh 0 Mesh 1



0	1	2	3	4	5
u	v	p	u_c	v_c	L



		0				1	2
		u	v	u_c	v_c	p	L
0	u						
	v						
	u_c						
	v_c						
1	p						
2	L						

3 by 3 blocked Jacobian

Elemental DOF types:
Order determined by the element type.

Preconditioner DOF type:
Admits a two-level ordering: First by order of the meshes, then by the elemental DOF type ordering within the mesh.
This is known as the natural preconditioner DOF type ordering.
Re-ordering and combining of the preconditioner DOF types gives rise to the block types.

Block type:
Order determined by the writer of the preconditioner.
The writer of the preconditioner assumes information about the preconditioner DOF type ordering.