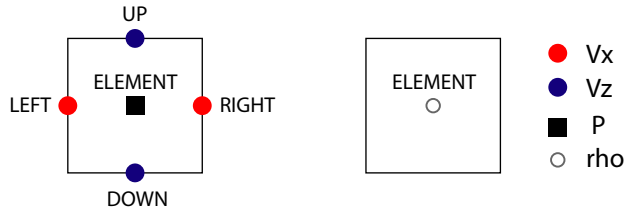


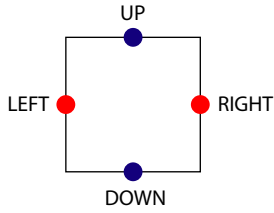
DMStag (2D) - Nonlinear



dmSol (0,1,1) dmCoeff (0,0,1)

*dof (A per vertex, B per edge, C per face/element)

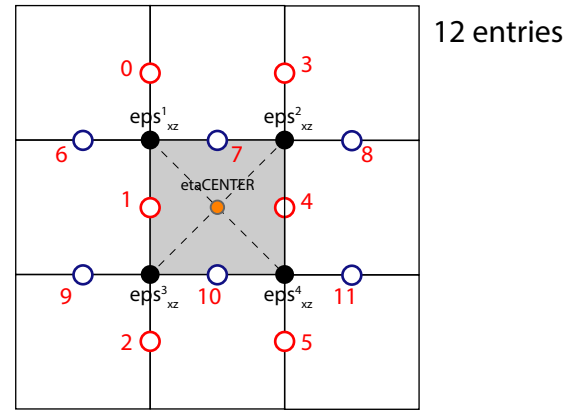
1) Continuity equation (residual) 4 entries



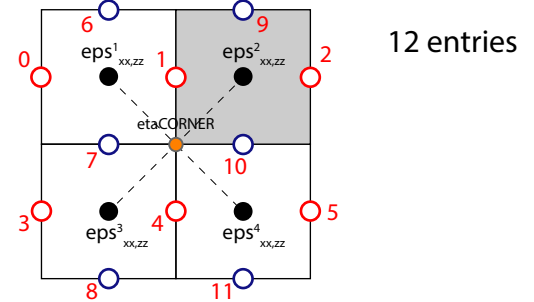
Effective viscosity and second invariant of strain rate

$$\text{epsII} = ((\text{eps}_{xx}^2 + \text{eps}_{zz}^2 + 2 * \text{eps}_{xz}^2) * 0.5)^{0.5}$$

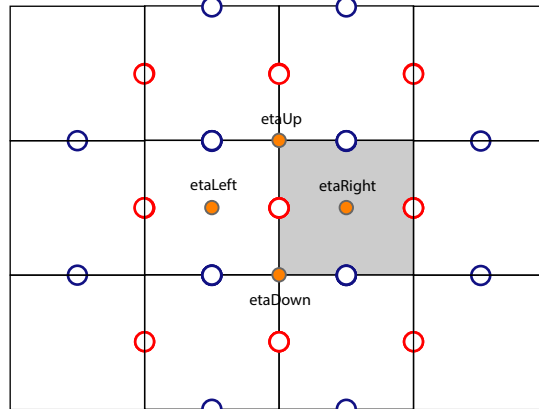
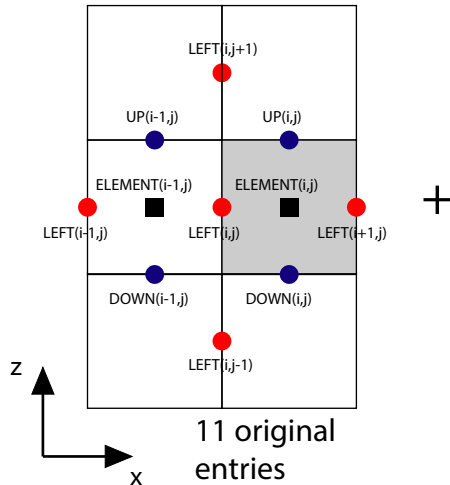
a) etaCENTER: eps_{xx} , eps_{zz} - center, eps_{xz} - corner (interp)



b) etaCORNER: eps_{xx} , eps_{zz} - center (interp), eps_{xz} - corner



2) X-momentum equation (residual)



21 entries + 2 Pressure

3) Z-momentum equation

