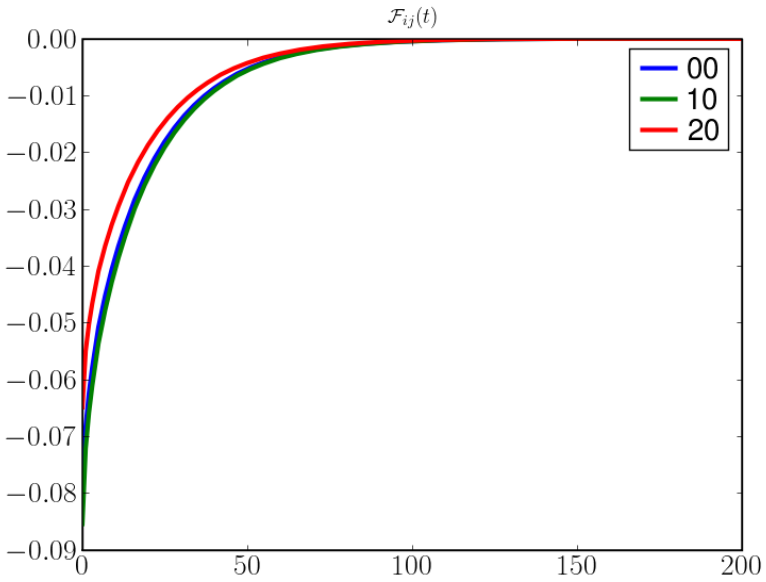
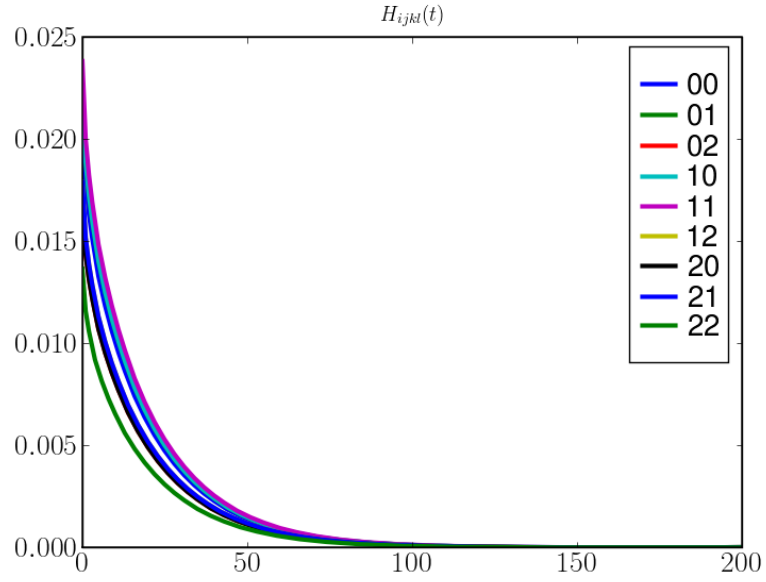
1 Homogenized Coefficients

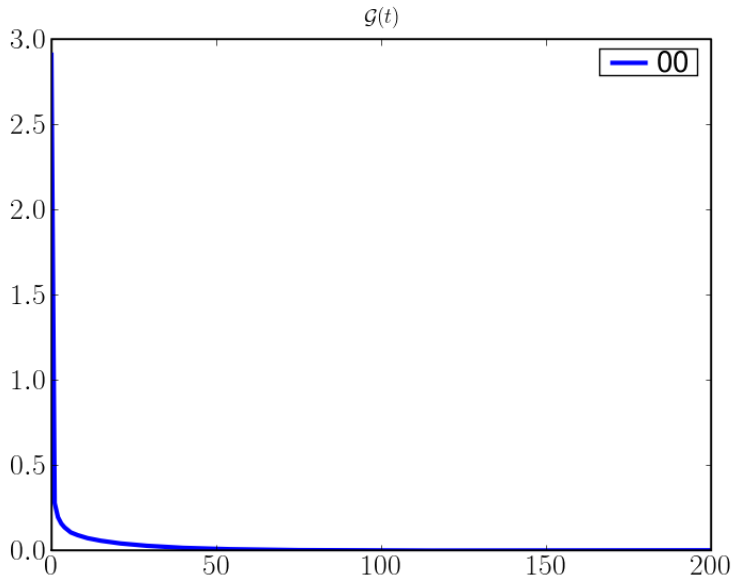
- $\mathcal{F}_{ij}(t)$



- $H_{ijkl}(t)$



- $\mathcal{G}(t)$

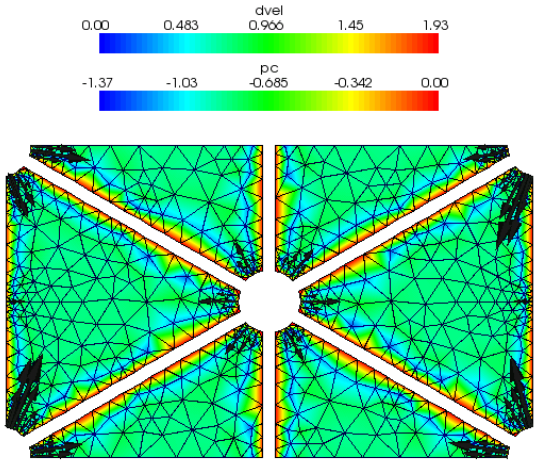


2 Correctors

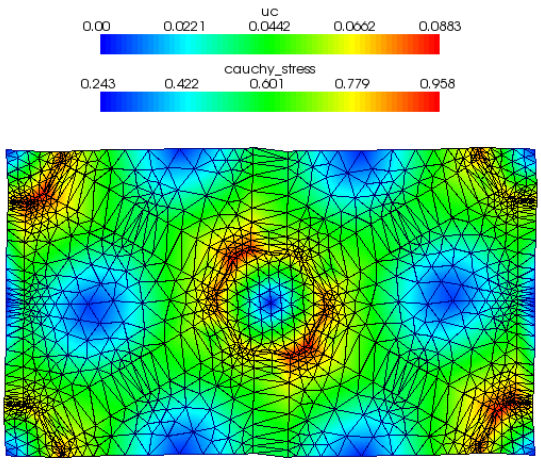
- pressure-like correctors: color = pressure, arrows = perfusion velocities (possibly scaled)
- displacements-like correctors: color = displacement, warped (possibly scaled), `cauchy_stress` colorbar only to see stress ranges

2.1 Steady-state pressure correctors

- pressure ... $\tilde{\pi}^P(0+)$, perfusion velocities
  scaling: 1.55e-01×

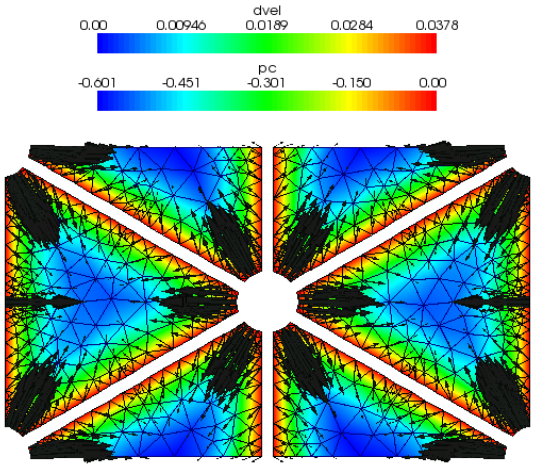


- displacements ... $\omega^{*,P}$
  scaling: 1.00e+00×

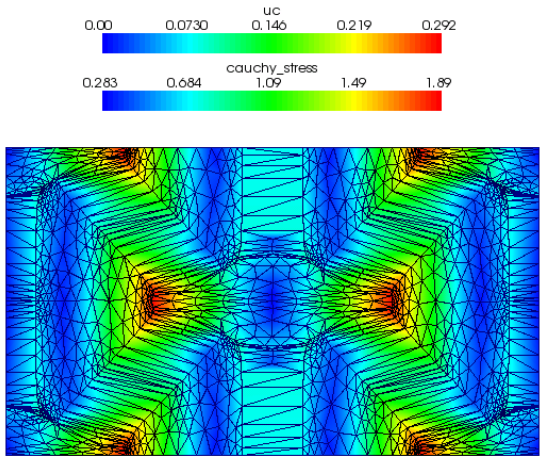


2.2 Steady-state RS correctors

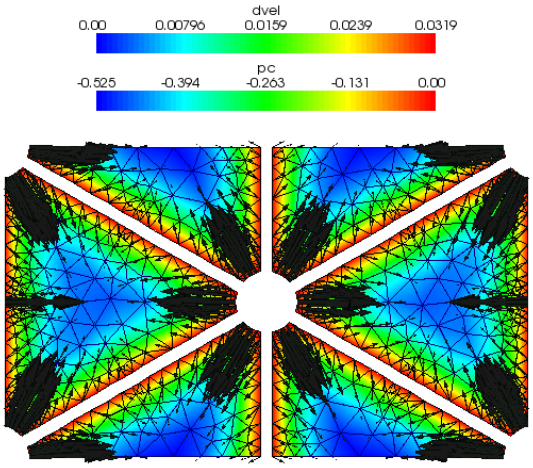
- pressure $\ldots \bar{\pi}^{11}$, perfusion velocities
  scaling: 7.93e+00×



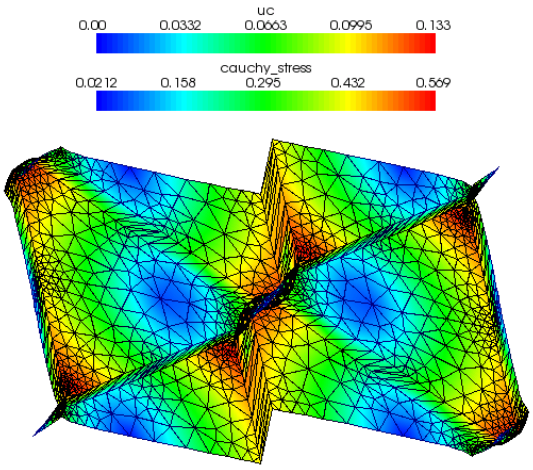
- displacements $\ldots \bar{\omega}^{11}$
  scaling: 1.00e+00×



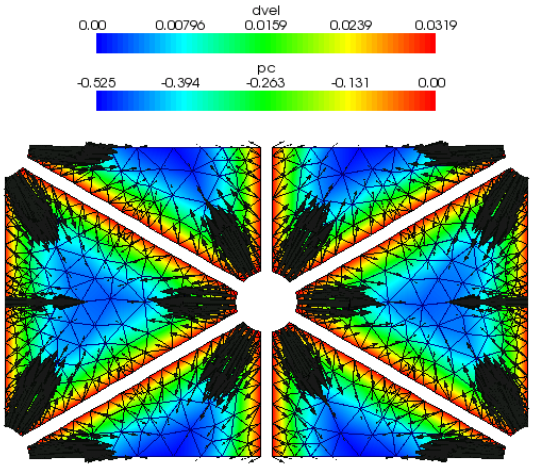
- pressure $\ldots \bar{\pi}^{12}$, perfusion velocities
  scaling: 9.42e+00×



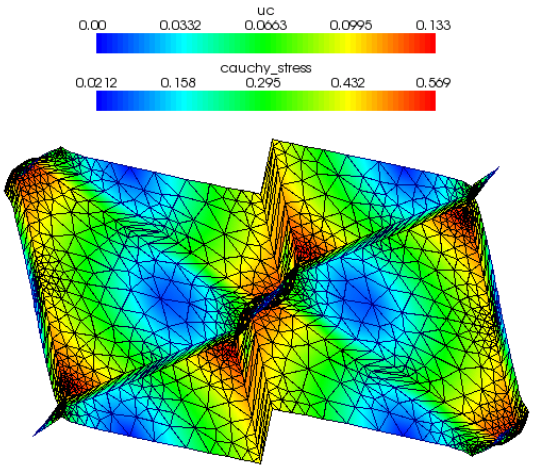
- displacements $\ldots \bar{\omega}^{12}$
  scaling: 1.00e+00×



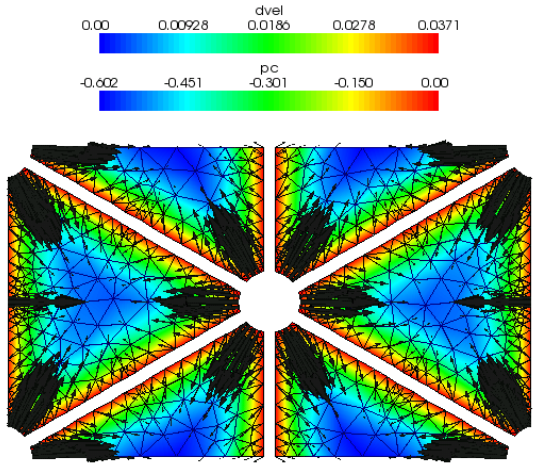
- pressure ... $\bar{\pi}^{21}$, perfusion velocities
  scaling: 9.42e+00×



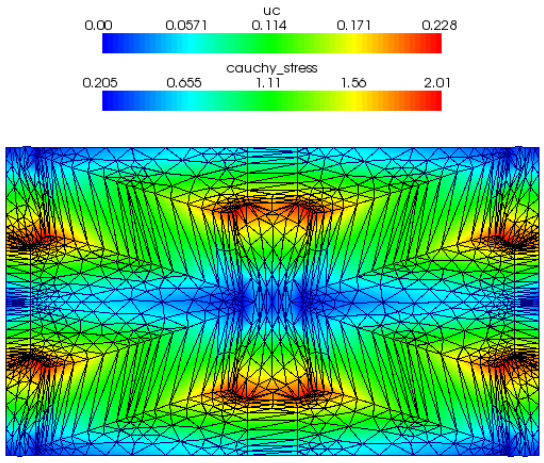
- displacements ... $\bar{\omega}^{21}$
  scaling: 1.00e+00×



- pressure $\ldots \bar{\pi}^{22}$, perfusion velocities
  scaling: 8.08e+00×

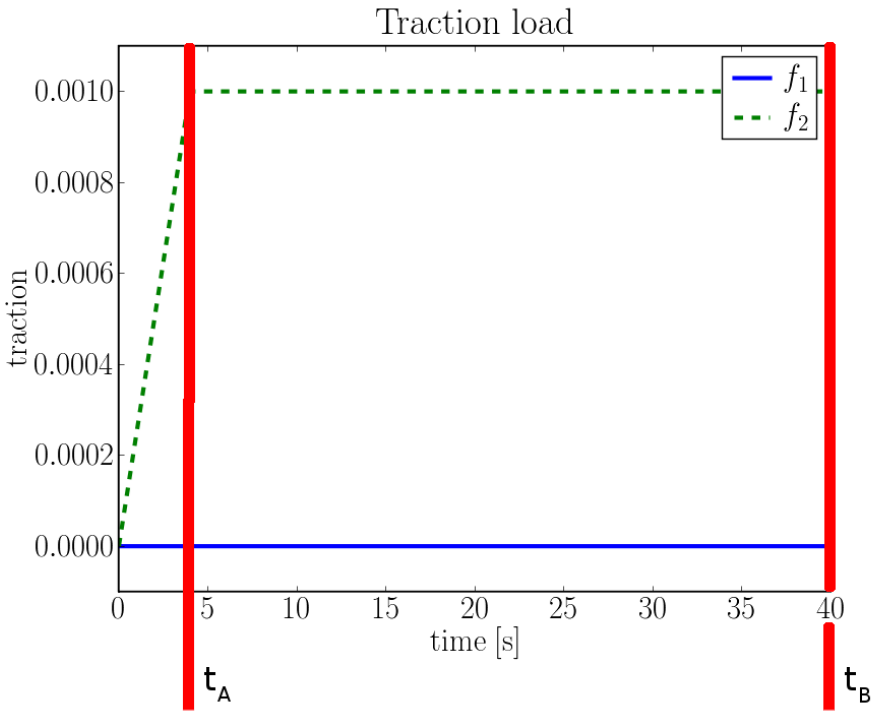


- displacements $\ldots \bar{\omega}^{22}$
  scaling: 1.00e+00×



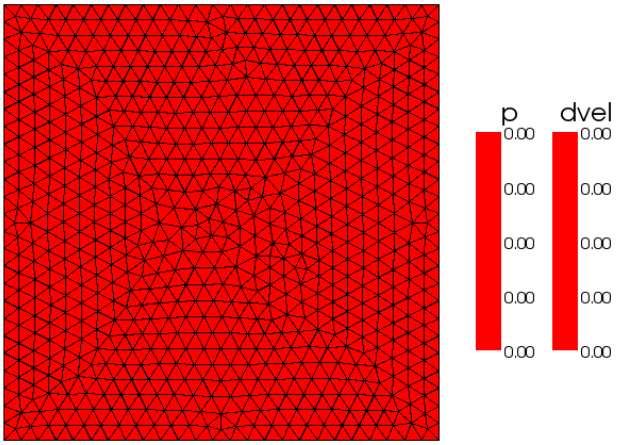
3 Macroscopic Solution

The structure is fixed on its left side and loaded by traction in y direction on the right side boundary:

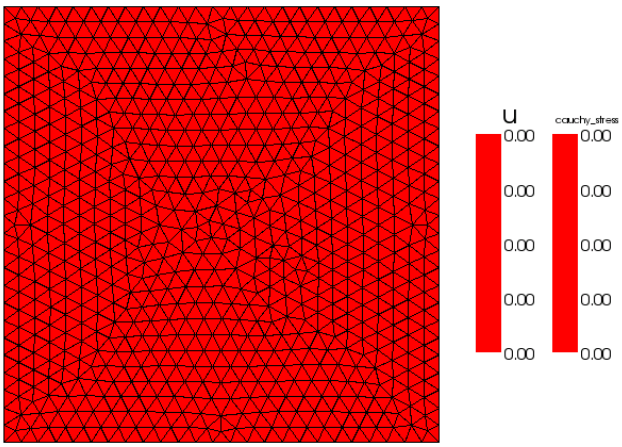


3.1 Bones macro-problem

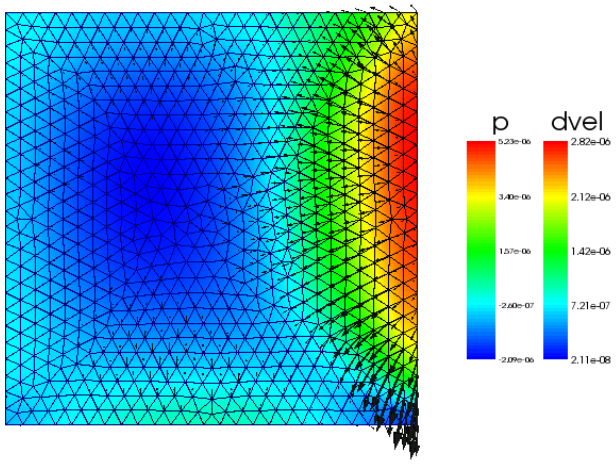
- step 0: pressure . . . p, perfusion velocities
  scaling: inf×



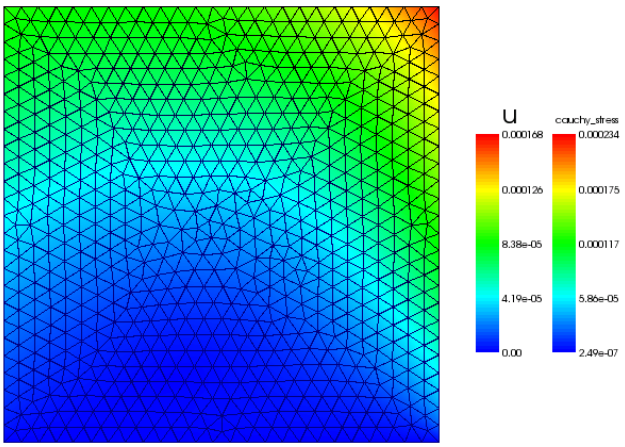
- step 0: displacements . . . u
  scaling: 1.00e+01×



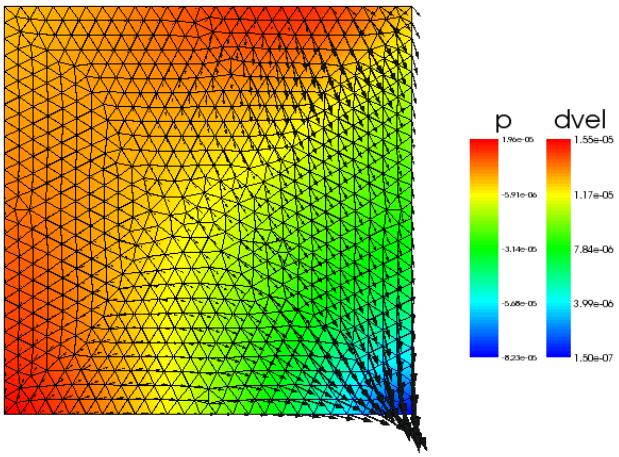
- step 1: pressure . . . p, perfusion velocities
  scaling: 1.06e+05×



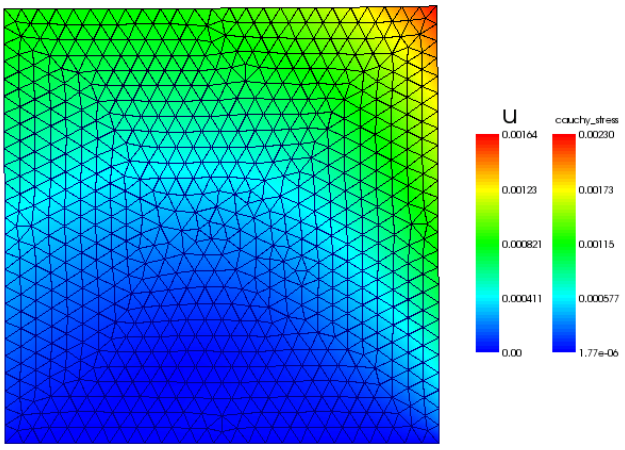
- step 1: displacements . . . u
  scaling: 1.00e+01×



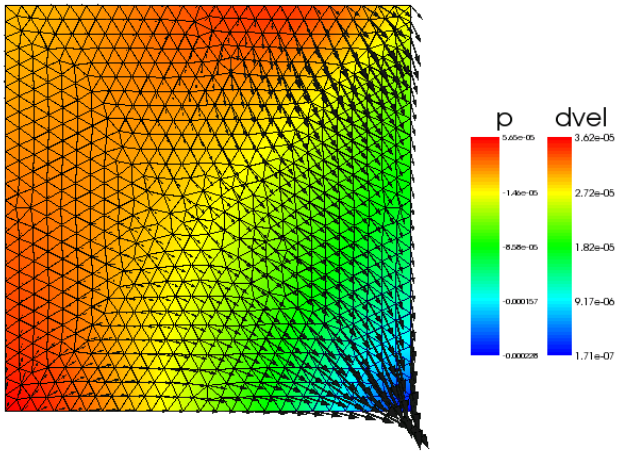
- step 10: pressure . . . p, perfusion velocities
  scaling: 1.93e+04×



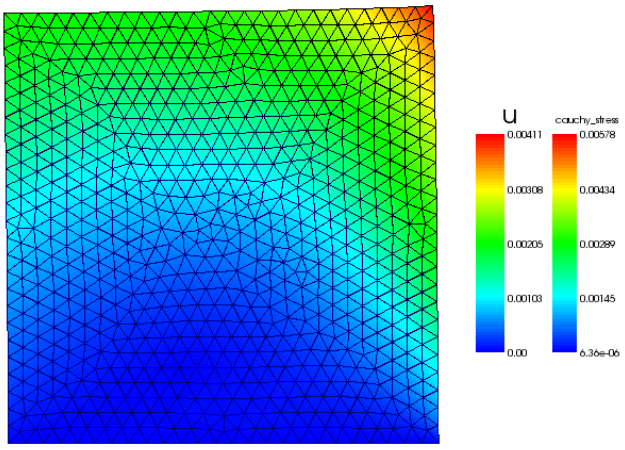
- step 10: displacements . . . u
  scaling: 1.00e+01×



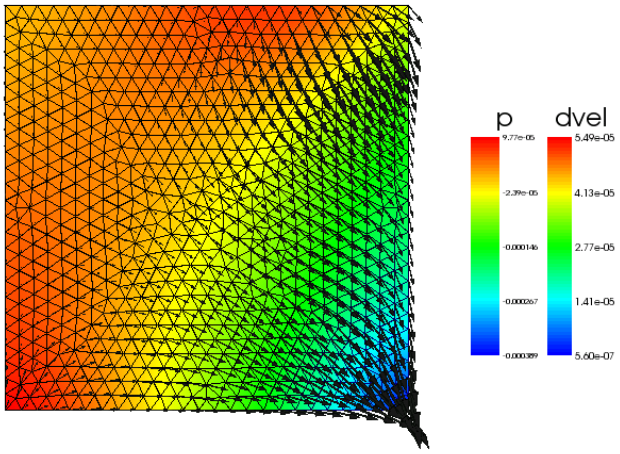
- step 25: pressure . . . p, perfusion velocities
  scaling: 8.30e+03×



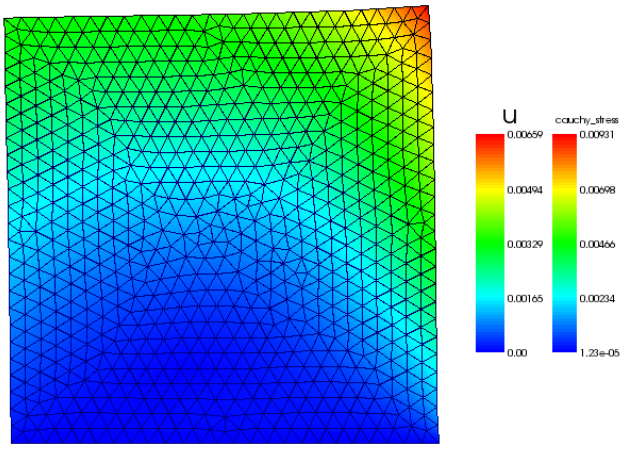
- step 25: displacements . . . u
  scaling: 1.00e+01×



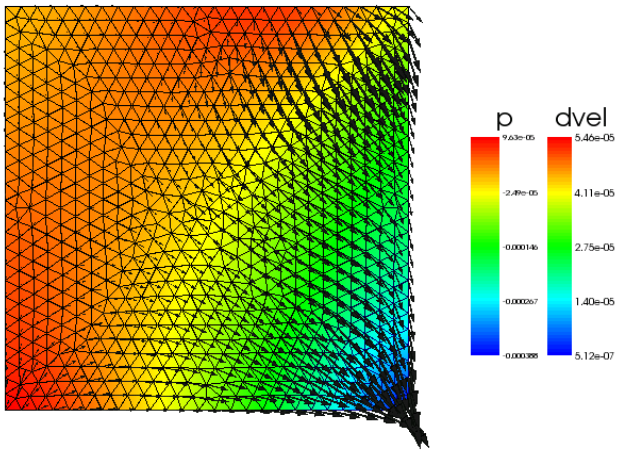
- step 50: pressure ... p, perfusion velocities
  scaling: 5.47e+03×



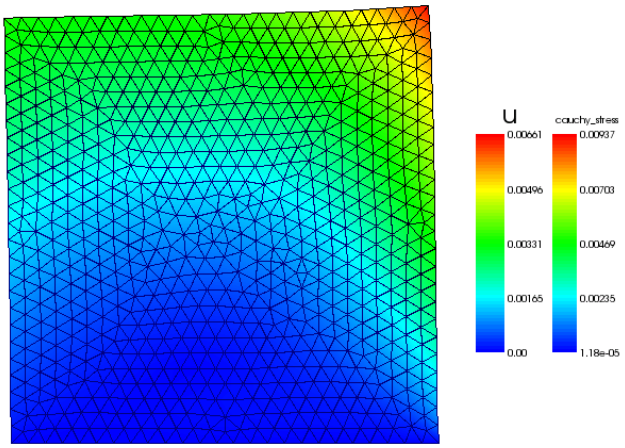
- step 50: displacements ... u
  scaling: 1.00e+01×



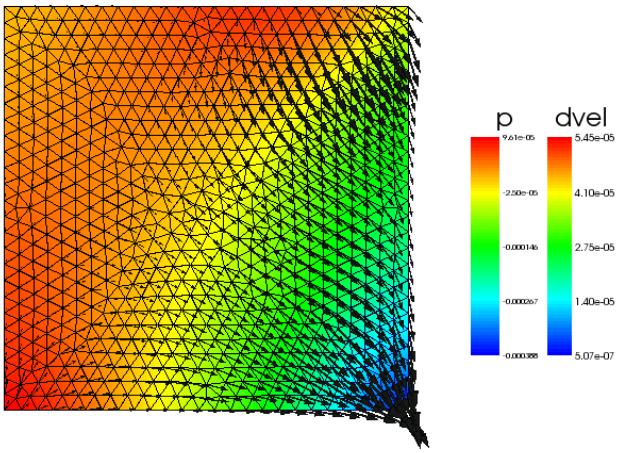
- step 100: pressure . . . p, perfusion velocities
  scaling: 5.50e+03×



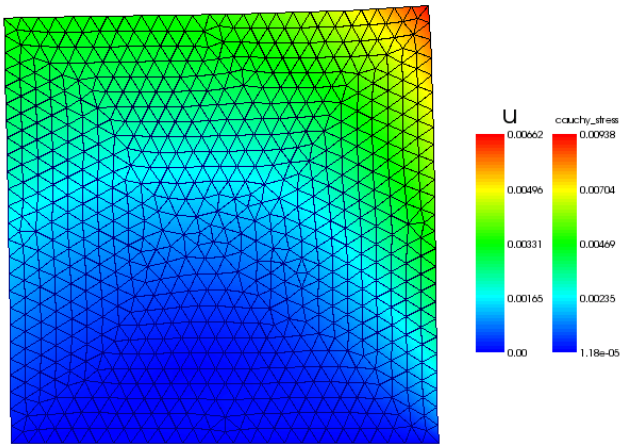
- step 100: displacements . . . u
  scaling: 1.00e+01×



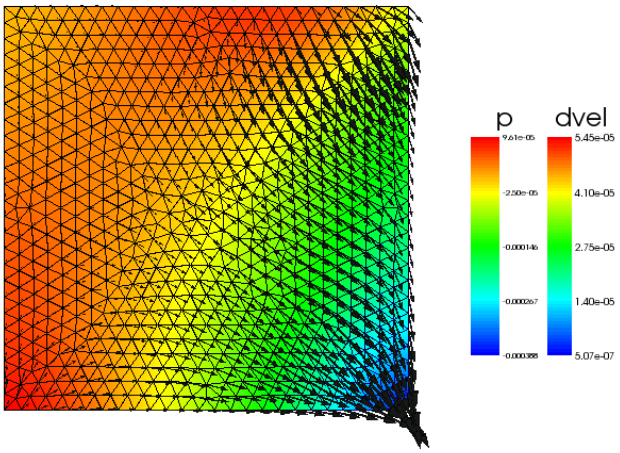
- step 200: pressure . . . p, perfusion velocities
  scaling: 5.50e+03×



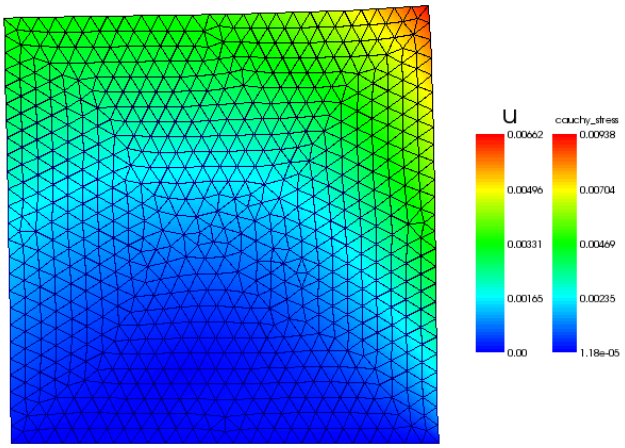
- step 200: displacements . . . u
  scaling: 1.00e+01×



- step 400: pressure . . . p, perfusion velocities
  scaling: 5.50e+03×

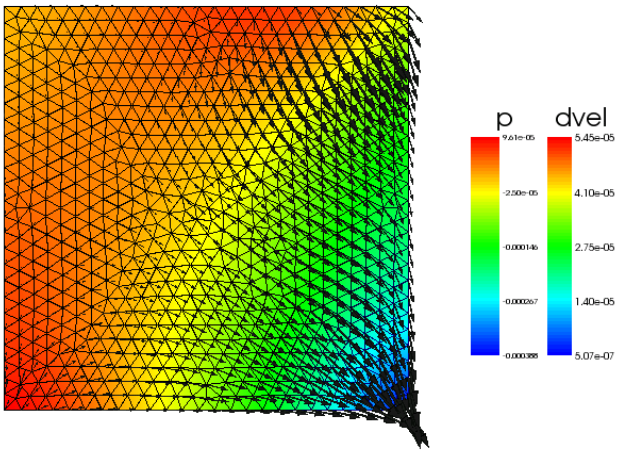


- step 400: displacements . . . u
  scaling: 1.00e+01×



3.2 Steady-state solution of bones macro-problem

- pressure ... p, perfusion velocities
  scaling: 5.50e+03×



- displacements ... u
  scaling: 1.00e+01×