

- If you want to test some of the library capabilities on your problem without jumping in and implementing everything from scratch, then you can use in the test directory the examples in the fileread folder to try it,
- The test in pargen folder shows how the various part discussed here can be used to solve for a second order equation in 3D with Dirichlet boundary conditions

$$\left\{ \begin{array}{l} -\frac{a_1 \partial^2 u}{\partial x^2} - \frac{a_2 \partial^2 u}{\partial y^2} - \frac{a_3 \partial^2 u}{\partial z^2} + b_1 \frac{\partial u}{\partial x} + b_2 \frac{\partial u}{\partial y} + b_3 \frac{\partial u}{\partial z} + cu = f, \\ \quad \text{for } (x, y, z) \in [0, 1]^3, \\ u = g, \\ \quad \text{for } (x, y, z) \in \partial[0, 1]^3. \end{array} \right.$$