

$$\left\{ \begin{array}{l} \Delta t_h = \text{CFL}_h \frac{\Delta x}{\max_{\Omega} (|u_i|)} \\ \Delta t_v = \text{CFL}_v \frac{\Delta x^2}{\nu} \\ \Delta t = \min (\Delta t_h, \Delta t_v) \end{array} \right.$$