Structural model solver Fluid solver  $x_s^n, \dot{x}_s^n$  $x_{s}^{n+1}, \dot{x}_{s}^{n+1}$ 

$$x_s^{n+1,*} = x_s^n + \alpha_0 \, \Delta t_s \dot{x}_s^n + \alpha_1 \, \Delta t_s (\dot{x}_s^n - \dot{x}_s^{n-1})$$