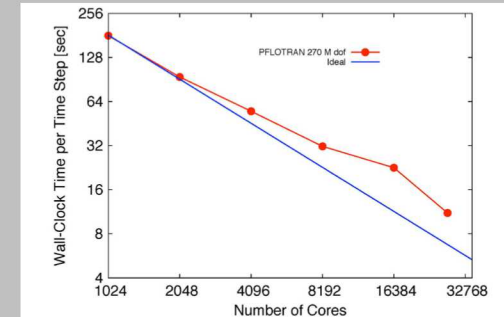
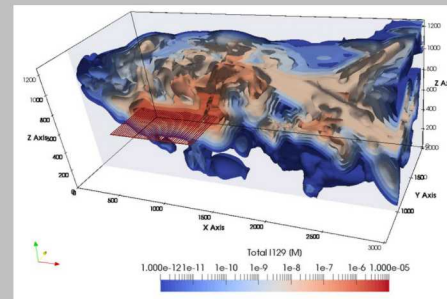


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$$\begin{aligned}\frac{\partial m_a}{\partial t} &= -\nabla \cdot (\rho_l X_a^l \mathbf{q}_l + \rho_g X_a^g \mathbf{q}_g + \mathbf{J}_a^l + \mathbf{J}_a^g) + q_a^G, \\ \frac{\partial m_w}{\partial t} &= -\nabla \cdot (\rho_l X_w^l \mathbf{q}_l + \rho_g X_w^g \mathbf{q}_g + \mathbf{J}_w^l + \mathbf{J}_w^g) + q_w^G, \\ \frac{\partial e}{\partial t} &= -\nabla \cdot (\rho_l H_l \mathbf{q}_l + \rho_g H_g \mathbf{q}_g - \kappa_{\text{eff}} \nabla T) + q_e^G,\end{aligned}$$



PFLTRAN Short Course Goals

Goals

- By the end of this short course, you should be able to:
 - Understand the underlying theory behind PFLOTRAN
 - Install PFLOTRAN
 - Understand the basics of setting up PFLOTRAN input files
 - Execute PFLOTRAN simulations
 - Visualize results PFLOTRAN with:
 - Python: matplotlib
 - ParaView
 - Understand PFLOTRAN terminology well enough to submit well-informed questions to the pflotran-users mailing list