

Design Goals

For users

- Easy to switch to a new EOS model
- Easy to switch to another **Flash Calculation** algorithm
- Easy to add a new IMPES/IMPEC method

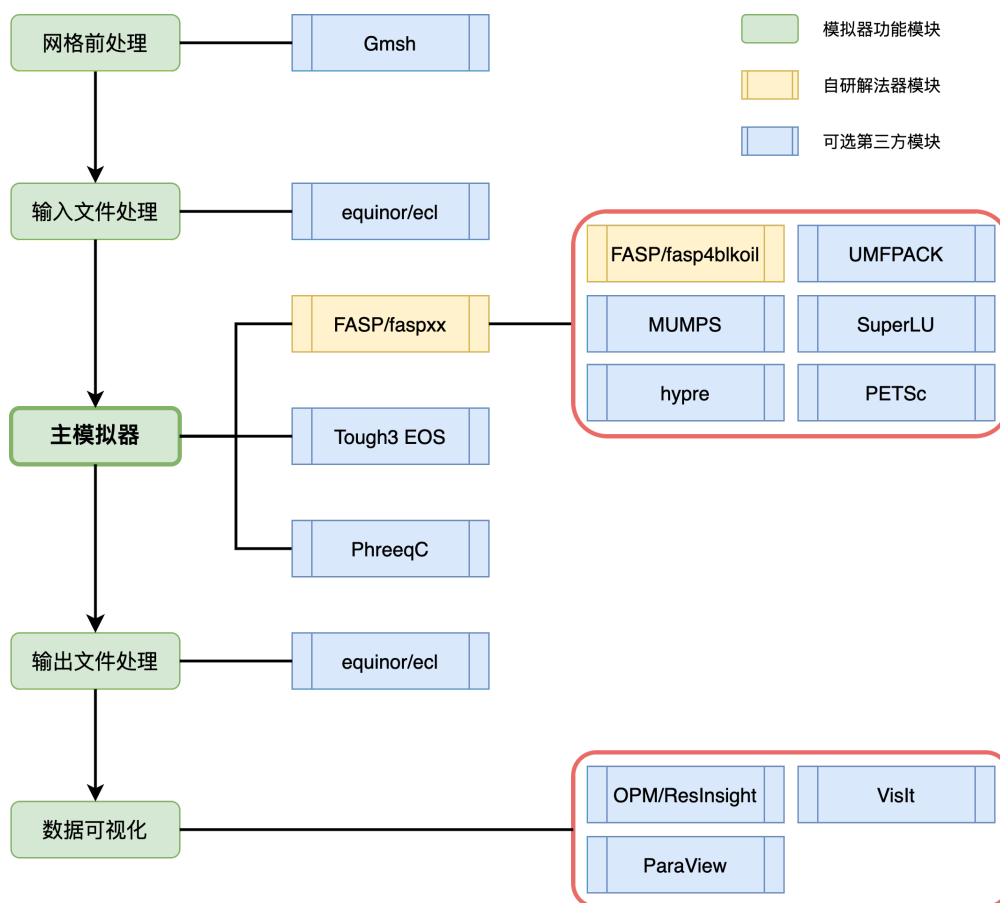
For developers

- Easy to change to a different grid structure
- Easy to add a new spatial discretization
- Easy to add a new temporal discretization

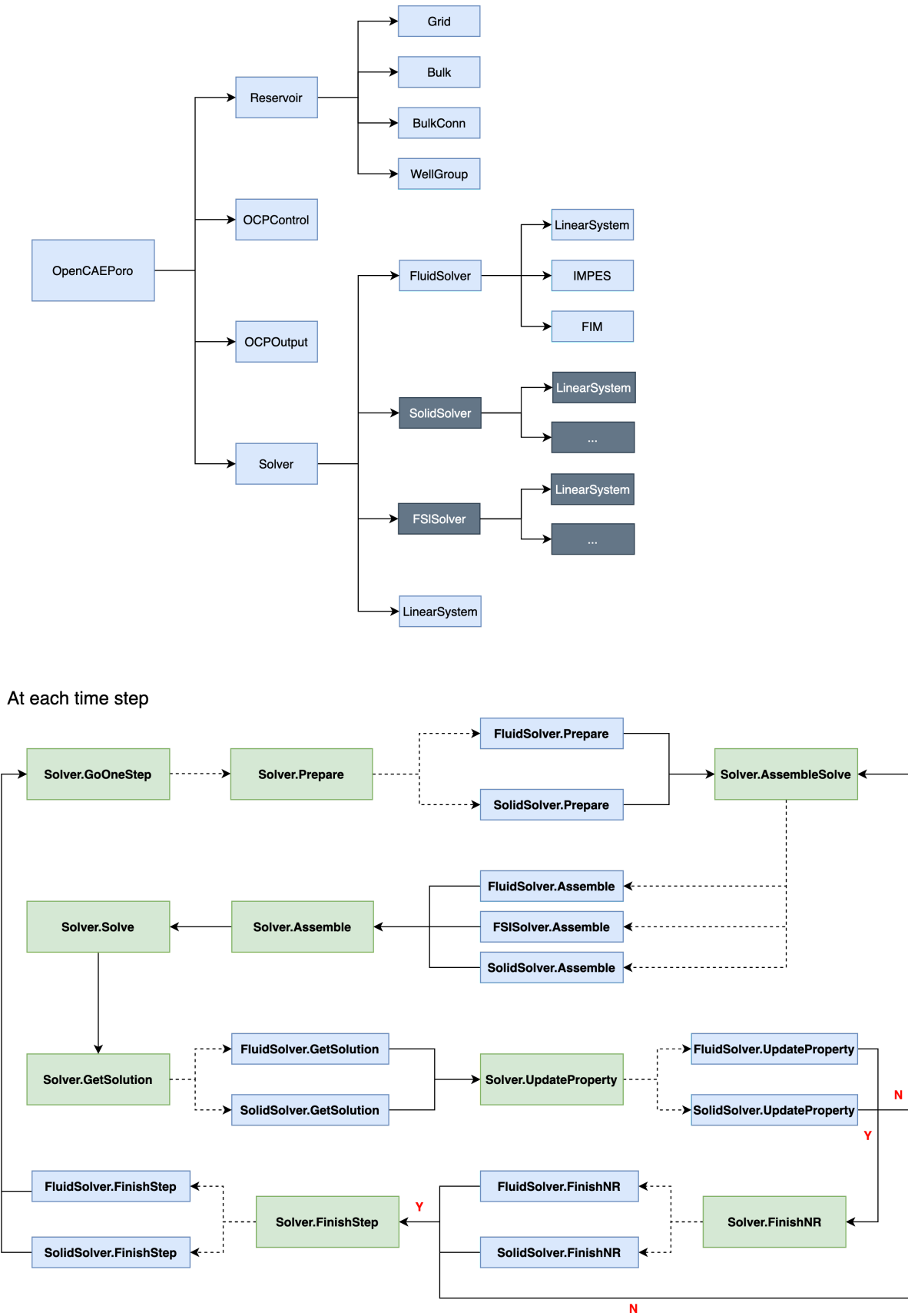
For optimization

- Easy to add a new linear solution method
- Easy to parallelize linear solvers
- Easy to optimize code at certain steps

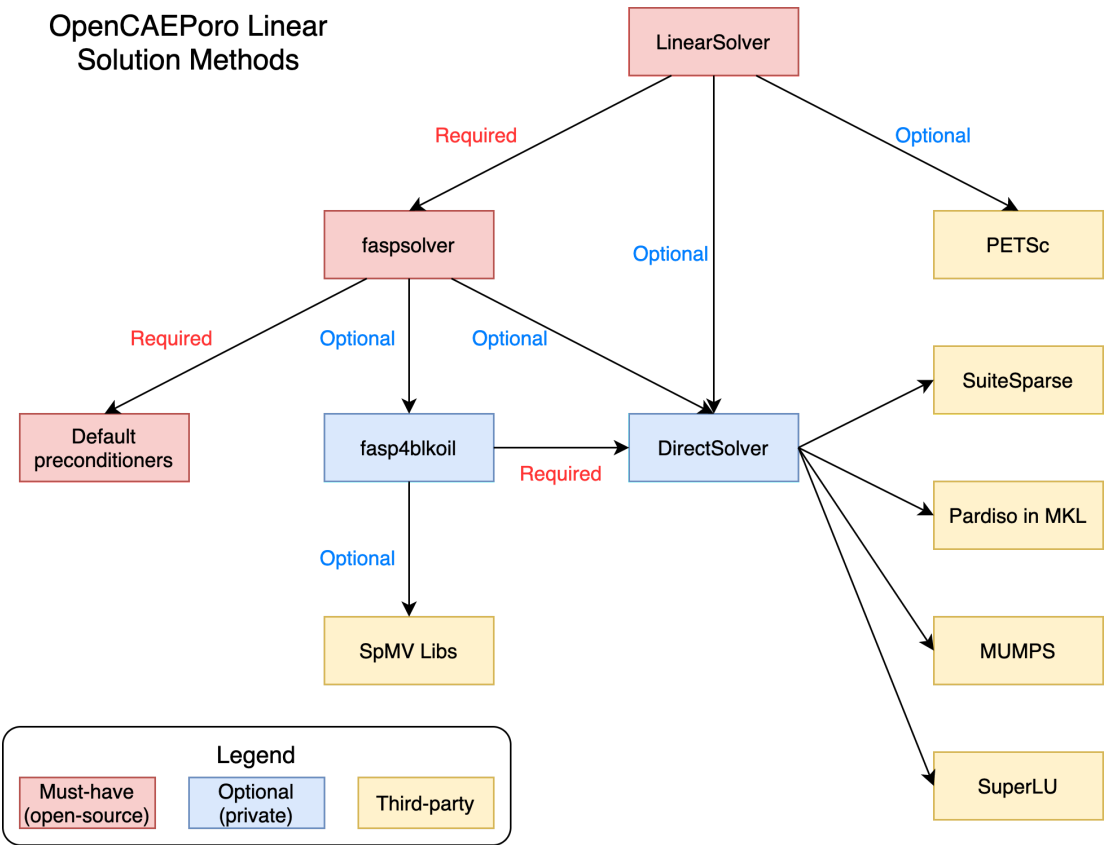
Overall design



Flow chart



Linear solution methods



Parallel module

