```
fvMesh& mesh = fluidRegions[i];

multiphaseSystem& thermol = thermoFluid[i];
volScalarField& kappa = kappaLK[i];
volScalarField& rho = rhoFluid[i];
volVectorField& U = UFluid[i];
volScalarField& T = TFluid[i];
surfaceScalarField& phi = phiFluid[i];
volScalarField& Cp = CpFluid[i];
volScalarField& rhoCp = rhoCpFluid[i];
surfaceScalarField& rhoPhi = rhoPhiFluid[i];
volScalarField& rhok = rhokFluid[i];
dimensionedScalar& rhoR = rhoRFluid[i];
CompressibleTurbulenceModel<multiphaseSystem>& turbulence = turbulenceFluid[i];
volScalarField& K = KFluid[i];
volScalarField& dpdt = dpdtFluid[i];
volScalarField& p = pFluid[i];
volScalarField& p_rgh = p_rghFluid[i];

const volScalarField& gh = ghFluid[i];
const surfaceScalarField& ghf = ghfFluid[i];

fv::options& fvOptions = fluidFvOptions[i];

bool frozenFlow = frozenFlowFluid[i];

const label pRefCell = pRefCellFluid[i];
const scalar pRefValue = pRefValueFluid[i];

const dimensionedScalar rhoMax = rhoMaxFluid[i];
const dimensionedScalar rhoMin = rhoMinFluid[i];

const pressureControl& pressureControl = pressureControls[i];

pimpleControl& pimple = pimpleFluid[i];

bool correctPhi = correctPhiFluid[i];
bool ddtCorr = ddtCorrFluid[i];
```