

master.sh

CFD solver, file path, inlet,
time settings, densities,
gas mass, U, booleans

Legend

- flow solver-dependent
- flow solver-independent
- user input
- hidden data exchange
- output to file path

CFD solver, file path, inlet, start time

readInlet_OpenFOAM.py

writeCellCentres-output

inlet geometry and normal

user settings, inlet geometry and normal

inletModelling.py

α_w and U -profiles as function of time

α_w and U -profiles, file path, inlet, start time

writeBC_OpenFOAM.py

BC readable by solver