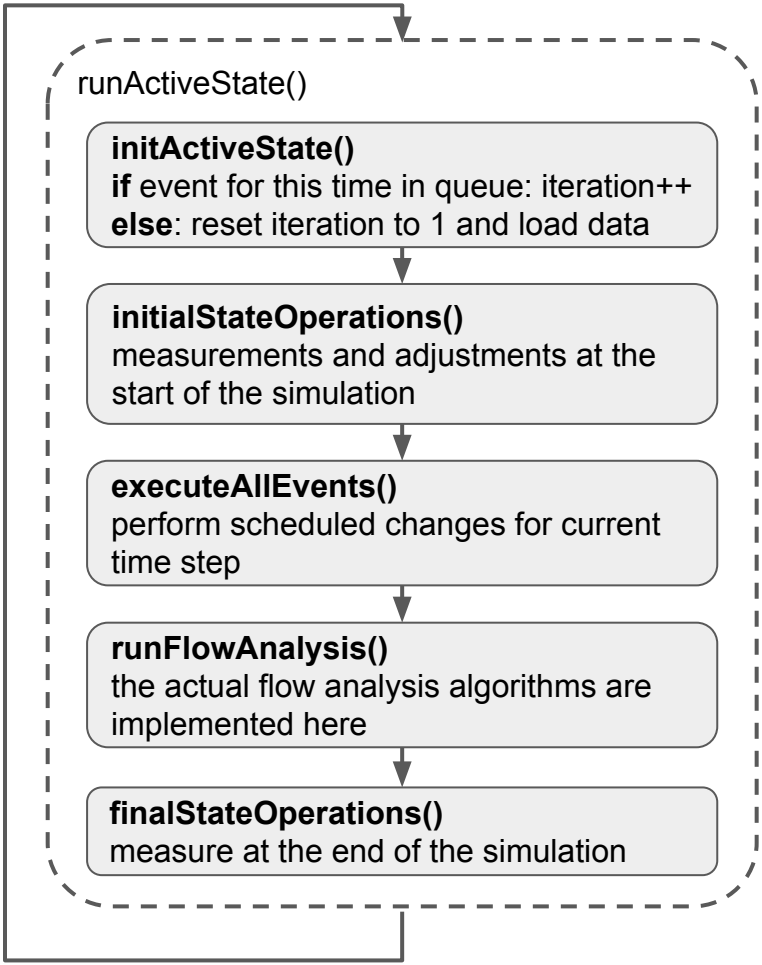
runActiveState()
initActiveState()
if event for this time in queue: iteration++
else: reset iteration to 1 and load data
initialStateOperations()
measurements and adjustments at the start of the simulation
executeAllEvents()
perform scheduled changes for current time step
runFlowAnalysis()
the actual flow analysis algorithms are implemented here
finalStateOperations()
measure at the end of the simulation