## c: Configuration d: ParticleData init() time\_step() run() **ParticleData** x i, vx i, vy i: Array(N)ke hist: Array(Nt) fe hist: Arrav(Nt) p hist: Array(Nt) x\_hist: Array(N, Nh) vx\_hist: Array(N, Nh) vy hist: Array(N, Nh) ex hist: Array(M, Nh) ey\_hist: Array(M, Nh) rho hist: Array(M, Nh)

N, M: int
x\_max, x\_min: float
dt, t\_max: float
qm, wp, eps0, wc: float
weighting\_order: int
max\_history\_steps: int
initial\_x: Array(N)
initial\_vx: Array(N)
initial\_vy: Array(N)

set\_initial\_conditions()

Configuration