

## Method 2 - Domain decomposition

- distribution of fluid flow data as used by the domain decomposition method for the Navier–Stokes solver
- each node processor calculates trajectories from their entry point to the current grid block to the exit point (block boundary or inlet/outlet cross section)
- particle state at block boundaries is returned to the host and is treated as a "initial condition" for the neighbouring block/processor node
- source terms are calculated on the processor nodes during trajectory calculation process (no need of global sums)

