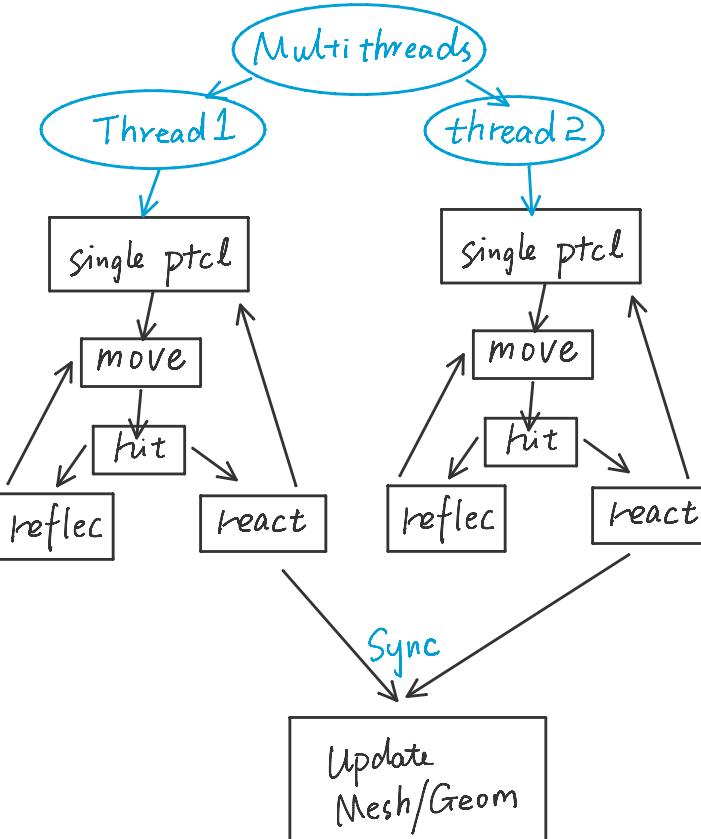
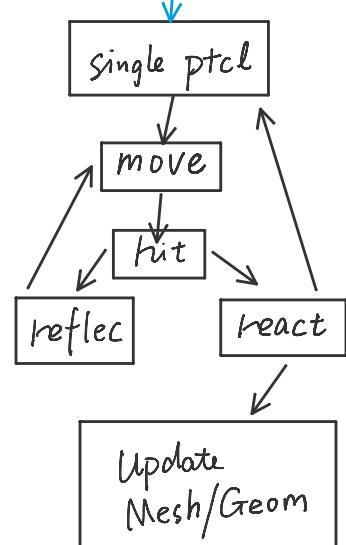


Single particle vs. multiple particles

Monday, September 14, 2020 1:47 PM

① Single thread



② Single thread

Ptcl array size = 1000
 $A_r^+ | A_r^+ | A_r^+ | C_l | \dots | C_l$
 position
 Energy
 direction
 continue tag
 dead tag

Step Advance ΔL

after 100 steps

500 ptcl hit, 500 ptcl continue

after 200 steps,

750 ptcl hit, 250 ptcl continue

Until 1000 ptcl hit

Hit Check

Computational load is determined by the MOST-STEP ptcl.

Another sync at

Update Mesh/Geom

Multi-Threads
split arrays

Thread 1 Thread 2
Ptcl array $\boxed{1} \dots \boxed{1} - \dots - \boxed{1} \dots \boxed{1}$

Step Advance

Sync at Hit Check

another sync at

Update Mesh/Geom