

HOST (CPU)

Initial
Calculations

Initialization
kernel

Time loop

Aggregation
kernel

Breakage
kernel

Consolidation
kernel

Calculate
rates and PSD

End time loop
Calculate d50
End

Copy variables
to GPU

Copy variables
to GPU

Copy variables
to CPU

DEVICE (GPU)

Grid 0 (nSolid1, nSolid2)

Grid 1 (nCompartments,
nSolid1, nSolid2)

Grid 2 (nCompartments,
nSolid1, nSolid2)

Grid 3 (nCompartments,
nSolid1, nSolid2)

Repeat for each
time step until
final granulation
time is reached

