# Spatial Sorting Collision detection algorithm

A. Goals:

Develop an efficient algorithm to detect collision between particles, and apply it to several problems such as two fluid modeling and platelet coagulation.

B. Brief Description:

Sorting particles before detecting collision and finding the neighbors for each particle, improves the computational cost, allowing to use higher number of particles in simulations.

C. Heights of Achievements this semester (using bullets):

- Basic spatial sorting algorithm
- Improvement spatial sorting algorithm
- Addition of spatial sorting algorithm in platelet coagulation simulation

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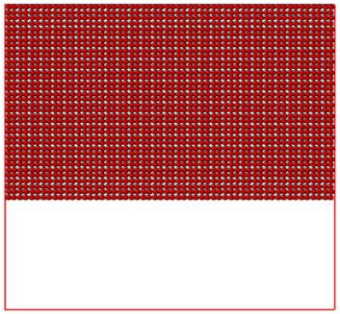

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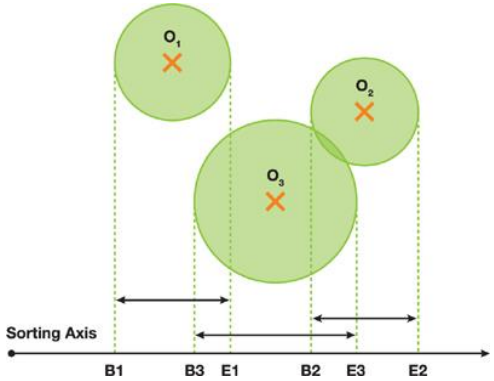


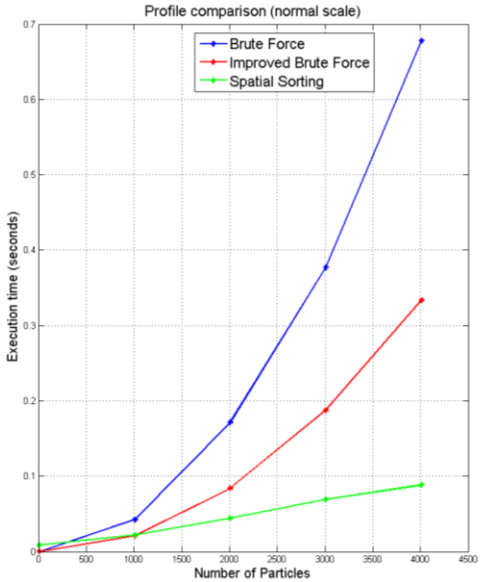


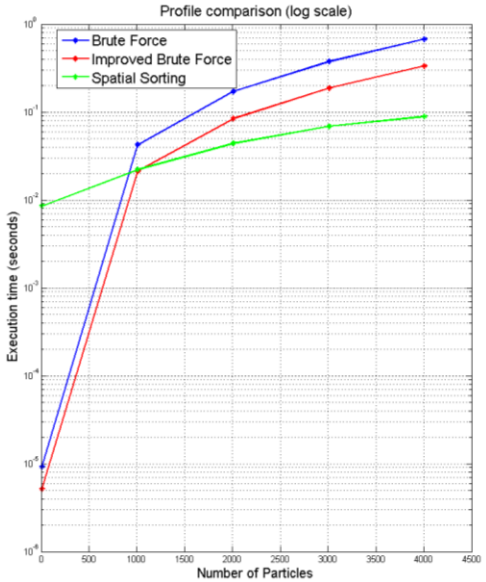


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