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Subject: alternative to array of linked list

Posted by [forlano](#) on Sun, 01 May 2016 22:52:21 GMT

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Hello,

I am doing experiments with molecular dynamics.

The domain of simulation is divided in cells and each cell contains a number of particles.

The particle can move from a cell to another.

Usually it is used an array of linked list. I would like to replicate this structure with U++ containers.

I do not know what to use:

Vector< Vector<int> >

Vector< Index<int> >

Map< ... >

something else?

Here the speed is very important: search quickly a particle in a given cell, delete it, move in another cell.

Does anybody have suggestions? If somebody have already done similar experiment snippet code are greatly appreciated.

Thanks,

Luigi

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