Computational Fluid Dynamics Based on Java/JikesRVM/JI Prolog – A Novel Suggestion In The Context of Lattice-Boltzmann Method.

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Idea:

As explained in the TITLE above, we intend to probe CFD computational aspects using JavaCFD/JikesRVM/JI Prolog in a novel way.”OOP Lattice-Boltzmann based Fluid Dynamics in Processing”.

Inspiration:

“Computational Fluid Dynamics (CFD) is used extensively in engineering to accurately model fluid flow and its associated phenomena”. "CFD software written in Java using the Lattice-Boltzmann method. Allows custom-defined, arbitrary geometries in 2D incompressible flow field”. The Lattice-Boltzmann Method (LBM) works in a way that is comparable to → “Cellular Automata”.


Java CFD-LBM-JikesRVM/JVM Based Informatics Framework:

![Figure I – Approximate CFD-LBM Informatics Framework.](image)

Actual implementation may vary to some extent – Readers Please Note.
Acknowledgement/s:

NON PROFIT ACADEMIC R&D ONLY. NO COMPETING FINANCIAL INTEREST/S ARE DECLARED IN THIS SHORT COMMUNICATION. THANKS TO ALL WHO MADE THIS HAPPEN.

THE END.