

# Parallelising d2q9-bgk.c with MPI

George Herbert  
cj19328@bristol.ac.uk

18 March 2022

## Abstract

`d2q9-bgk.c` implements the Lattice Boltzmann method (LBM) to simulate a fluid density on a lattice. This report analyses the techniques I utilised to further parallelise `d2q9-bgk.c` with MPI.