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Optimizations used.

1) Introduction of initial conditions
2) Introduction of measurements
3) Changing the stencil

In this opportunity the first thing I had to do was create the measurements and change the initial conditions in function f and changing the measurements.

The program registers the following times
MCells/sec: 1049.55
MFlops/sec: 8746.28
GBytes/sec: 31.4315

This is all done before the change in stencil B.

After doing the change in stencil B The following times were registered

MCells/sec: 1370.1
MFlops/sec: 11417.5
GBytes/sec: 20.5156

A few changes in the layout of cl files were tried but they did not improve on the performance by much. I will be very happy to see a good version of this code at work.