# Filling a Channel

## Objective

This test problem is intended to test the void collapse model in Truchas.

### Definition

A column of rectangular cells is 70% filled with liquid. The remainder is filled with void. An inlet is at one end of the column which injects liquid (into the region already containing fluid) at a fixed velocity into the column. The problem should steadily fill all the cells with liquid, and complete when the final cell is completely full.

#### Metrics

Metrics are to be the time at which the calculation ends (this will be due to a projection iteration failure), and the amount of void remaining in the column at that time.

### Truchas Model

The Truchas model is the same as the definition for this problem.

Results

To be added.

Critique

To be added.

References

None needed for this simple problem.