Introduction to Computational Fluid Dynamics using OpenFOAM and Octave

Dr. Lakshman Anumolu (Sr. Research Engineer)
Kumaresh Selvakumar (PhD candidate)
(Session-12)

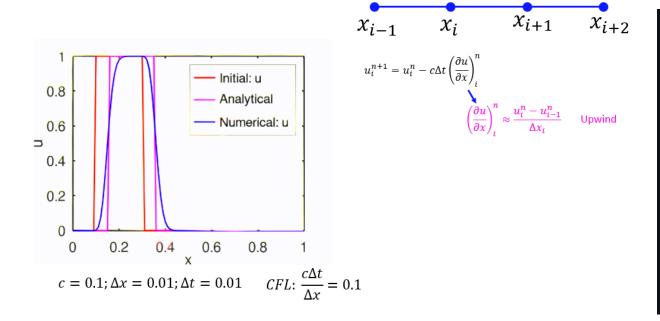
Instructions: Mon, Wed, Thu (5:30PM-6:30PM IST)

Query session: Sundays 8AM-8:30AM IST

Quick Recap

What Did We Discuss?

Numerical Solution to Convection Equation



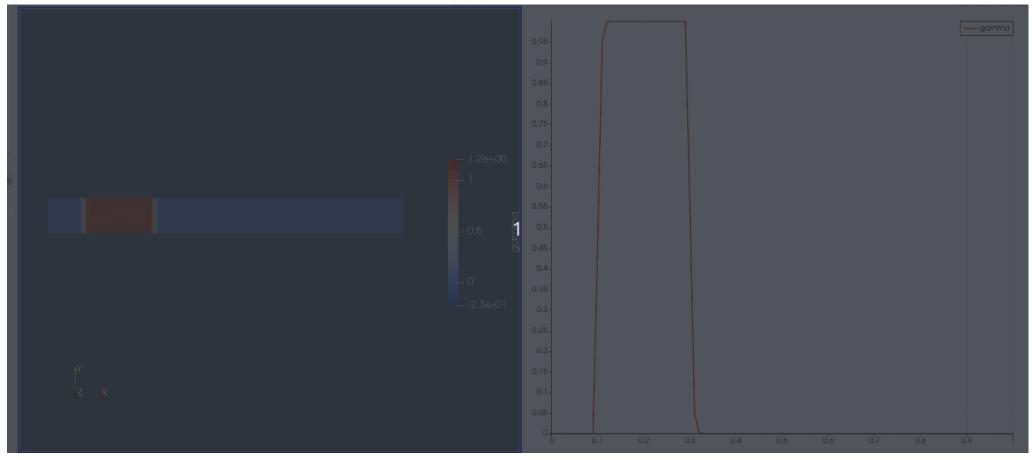
Current Session

Overview

- OpenFOAM: Numerical Solution to convection Equation
- Introduction to C++ for OpenFOAM (contd.)

Numerical Solution to Convection Equation

 $\frac{\partial u}{\partial t} + c \frac{\partial u}{\partial x} = 0$



Introduction to C++ for OpenFOAM

a12_roc.cpp

Next Session

- Finite volume method to solve convection-diffusion equation in OpenFOAM
- Introduction to C++ for OpenFOAM (Contd.)

Thank you