

Generating mesh using snappyHexMesh in OpenFOAM

Talk to a Teacher

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National Mission on Education through ICT

<http://spoken-tutorial.org>

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Learning Objectives

- **Generate mesh using snappyHexMesh utility**



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- **Generate mesh using snappyHexMesh utility**
- **Simulate temperature distribution of a flange**



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Pre-requisite

- Know parameters in `snappyHexMeshDict` to generate mesh



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Pre-requisite

- Know parameters in **snappyHexMeshDict** to generate mesh
- Refer to the tutorial on **Introduction on snappyHexMesh in OpenFOAM**



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System Requirement

- **Ubuntu Linux Operating system version 12.04**



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System Requirement

- **Ubuntu Linux Operating system version 12.04**
- **OpenFOAM version 2.2.2**



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System Requirement

- **Ubuntu Linux Operating system version 12.04**
- **OpenFOAM version 2.2.2**
- **ParaView version 3.12.0**



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LaplacianFoam

- **Flange case from laplacianFoam in basic directory**



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LaplacianFoam

- **Flange case from laplacianFoam in basic directory**
- laplacianFoam solver **solves simple laplace equations**



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Assignment

- Refinement parameters
- locationInMesh co-ordinates
- snapControls
- Temperature in the 0 folder



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Summary

In this tutorial we learnt

- How to generate mesh by snappyHexMesh utility
- Simulate temperature distribution of a flange



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About the Spoken Tutorial Project

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- It summarises the Spoken Tutorial project



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The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to contact@spoken-tutorial.org



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- More information on this Mission is available at

<http://spoken-tutorial.org/NMEICT-Intro>



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