

Generating mesh using snappyHexMesh in OpenFOAM

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National Mission on Education through ICT

<http://spoken-tutorial.org>

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July 8, 2014



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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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- **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

- Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
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- If you do not have good bandwidth, you can download and watch it



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



Acknowledgements

- Spoken Tutorial Project is a part of the Talk to a Teacher project
- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at

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

