

Introduction to OMEdit

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Kaushik Datta & Priyam Nayak
IIT Bombay

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Learning Objectives



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System Requirement

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- ▶ OpenModelica v **1.9.5**
- ▶ Ubuntu Linux **14.04**
- ▶ Any OS: Linux, Windows, Mac OS X or FOSSEE OS on ARM.

Pre-requisites

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- ▶ **Knowledge of differential and algebraic equations**

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- ▶ **Open-source modeling and simulation environment**
- ▶ **Object-oriented, multi-domain modeling language**
- ▶ **Intended for both industrial and academic purposes**

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- ▶ **OMEdit** stands for OpenModelica Connection Editor
- ▶ new **Graphical User Interface(GUI)** for graphical model
- ▶ has several features to create and modify the models

Summary

We have learnt,

- ▶ About **OpenModelica**
- ▶ Introduction to **OMEdit**
- ▶ Open a **Class** from **Libraries Browser**
- ▶ Simulate a **Class** from **Libraries Browser**

Assignment

- ▶ Expand **Fluid** library in **Modelica**
- ▶ Expand **Examples** library in **Modelica**
- ▶ Simulate **HeatExchangerSimulation** class in **HeatExchanger** Library
- ▶ Change value of few input variables and re-simulate
- ▶ Generate a plot between **Q_Flow_1** and **time**

About the Spoken Tutorial Project

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- ▶ If you do not have good bandwidth, you can download and watch it

Spoken Tutorial Workshops

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

Forum for specific questions

- ▶ Do you have questions in this Spoken Tutorial?
- ▶ Please visit <http://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ Someone from the FOSSEE team will answer them



Forum for specific questions

- ▶ **The Spoken Tutorial forum is for specific questions on this tutorial**
- ▶ **Please do not post unrelated and general questions on them**
- ▶ **This will help reduce the clutter**
- ▶ **With less clutter, we can use this discussion as instructional material**

Textbook Companion Project

- ▶ **The FOSSEE team coordinates coding of solved examples of popular books**
- ▶ **We give honorarium and certificates for those who do this**
- ▶ **For more details, please visit this site**
<http://om.fossee.in/textbook-companion-project>

Lab Migration Project

- ▶ **The FOSSEE team helps migrate commercial simulator labs to OpenModelica**
- ▶ **We give honorarium and certificates for those who do this**
- ▶ **For more details, please visit this site**
<http://om.fossee.in/lab-migration-project>



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- ▶ **Spoken Tutorial and FOSSEE projects are funded by NMEICT, MHRD, Government of India**



Thanks

- **Thanks for joining**