

Loading & Saving Data in Xcos

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Video: Utkarsh Anand

FOSSEE TEAM

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Learning Objectives

In this tutorial, we will learn how to:



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In this tutorial, we will learn how to:

- ▶ **Save Xcos simulation data values to the workspace**



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In this tutorial, we will learn how to:

- ▶ **Save Xcos simulation data values to the workspace**
- ▶ **Read and write data in Xcos simulation using a C binary file**



System Requirements

To record this tutorial, I am using



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► **Ubuntu 18.04 OS**



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- ▶ **Ubuntu 18.04 OS**
- ▶ **Scilab 6.1.0**



Pre-requisites

To follow this tutorial, you should have:



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To follow this tutorial, you should have:

- ▶ **Basic knowledge of Scilab and Xcos**



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If not, for relevant tutorials please visit this website

<https://spoken-tutorial.org>



Code Files

- ▶ The files used in this tutorial are provided in the Code files link



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- ▶ **Please download and extract the files**



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- ▶ **Make a copy and then use them while practising**



Summary

In this tutorial, we have learnt to:

- ▶ **Save Xcos simulation data values to the workspace**
- ▶ **Read and write data in Xcos simulation using a C binary file**



Assignment

Create two Xcos simulations for plotting a straight line with slope 3:

- ▶ **Use the first simulation to push the values to the workspace and save them as a binary encoded file.**



Assignment

Create two Xcos simulations for plotting a straight line with slope 3:

- ▶ **Create another Xcos simulation to plot a new graph of a straight line with slope 3**
- ▶ **Use only the saved data values**



About Spoken Tutorial project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ 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



Answers for THIS Spoken Tutorial

- ▶ Questions in THIS Spoken Tutorial?
- ▶ Visit <https://forums.spoken-tutorial.org/>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ The Spoken Tutorial project will ensure an answer



- For any general or technical questions on Scilab, visit the FOSSEE forum and post your question

<https://forums.fossee.in/>

Textbook Companion project

- ▶ The FOSSEE team coordinates the Textbook Companion project
- ▶ We give Certificates and Honorarium to the contributors
- ▶ For more details, please visit:
https://scilab.in/Textbook_Companion_Project



Lab Migration

- ▶ **The FOSSEE team coordinates the Lab Migration project**
- ▶ **For more details, please visit:**
[**https://scilab.in/
Lab_Migration_Project**](https://scilab.in/Lab_Migration_Project)



Acknowledgements

- ▶ **The Spoken Tutorial project is funded by the Ministry of Education, Government of India.**



Thank you

- ▶ **This is Utkarsh Anand, FOSSEE intern 2021, IIT Bombay signing off**
- ▶ **Thanks for joining**

