

Exporting Symbols from a Module

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Mayuri Panchakshari

IIT Bombay

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Learning Objective



Learning Objective

- Export the symbols from a module



Learning Objective

- **Export the symbols from a module**
- **Import the symbols in a module**



System Requirements



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- VirtualBox 5.2



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- **VirtualBox 5.2**
- **Ubuntu Linux 18.04 LTS
Operating System**



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- **gedit text editor**



Prerequisites



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To follow this tutorial, you should be familiar with



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- C programming language



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If not, then go through the C/C++ and Linux spoken tutorials on <https://spoken-tutorial.org>



What is symbol?



What is symbol?

- **Symbol is either a variable or a function**



What is symbol?

- **Symbol is either a variable or a function**
- **Symbol exported by a module becomes part of the kernel symbol table**



Code Files



Code Files

- The files used in this tutorial are available in the **Code Files** link on this tutorial page



Code Files

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- Please download and extract them



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- Make a copy and then use them while practising



Summary

- **Export the symbols from a module**
- **Import the symbols in a module**



Assignment

- 1 Open the `export.c` file
- 2 Change the `printk` message of `module_function`
- 3 Compile the export and import modules



Assignment (cont.)

- 4 Load the modules using **modprobe** tool
- 5 See the output using **dmesg** command



About the 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 Workshop

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates on passing online tests
- For more details, please write to contact@spoken-tutorial.org



Forum questions

- **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**

You will have to register to ask questions



Forum to specific questions

- Questions not related to the Spoken Tutorial?
- Do you have general / technical questions on the Embedded Linux Device Driver?
- Please visit the FOSSEE Forum
<https://forums.fossee.in/>
- Choose the Software and post your question



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THANK YOU!

For more Information, visit our website
<https://fossee.in/>

