EXPL NITC

Contents

INSTALLATION

Install LEX

For Ubuntu Users :

```
sudo apt-get update
sudo apt-get install flex
```

For Fedora Users :

```
yum install flex
```

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Install YACC

For Ubuntu Users :

```
sudo apt-get update
sudo apt-get install bison
```

For Fedora Users :

```
yum install bison
```

top ↑

Install XSM Machine Simulator

The compiler's target code needs to be run on a simulator and the installation steps are given below.

Let us install XSM

STEP 1 :

Download XSM Simulator :   **Version 1**

STEP 2 :
Extract this file and navigate into the folder **xsm_expl** through the terminal.

Do the following steps:

1. Type "make".
You may get some warnings and they can be ignored. If you get any **fatal error**, then install the following dependencies and try running "make" again :
sudo apt-get install libreadline-dev
sudo apt-get install libc6-dev
If any other dependencies are missing (this depends on your system configuration), you have to install the missing dependencies and run "make" again. (Optional) While running "./xsm" after Step 2 if you get this error:
/usr/bin/ld: cannot find -ll collect2: error: ld returned 1 exit status Then you need to install:
sudo apt-get install libfl-dev
and edit the **Makefile** of **xsm_dev** folder, to proceed find the line where "-ll" is used as option and update it to "-lfl" to use the "flex" library we installed above. Now you can run "make" again after navigating into the folder **xsm_expl** through the terminal.

2. Type "cd ../xfs-interface/" and type "./init".
3.(Optional) Add this line **#!/usr/bin/env bash** as first line to the **xsm** file in **xsm_expl** folder.
This step is for those who don't have **bash** or **sh** as their "default shell" and therefore may be using other customizable shells like **zsh**, etc as their default shell. You can check your default shell by using **echo $SHELL** in terminal.

The usage instructions for the XSM simulator can be found here.

Please report installation errors to *kmurali@nitc.ac.in*

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