

Installation of **HOL & **HOL-LIGHT****

in

Linux

By

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Installation of HOL

Following are the steps for error free installation of HOL in Linux.

- 1- Make sure that the GCC compiler is properly installed, if not then open the terminal and use the following command.

sudo apt-get update

sudo apt-get install build-essential

- 2- Download the PolyML 5.5.0 from the following link.

<http://www.mediafire.com/download/fn9cmvcocokcyh/polym1.5.5.tar.gz>

Untar the package into any directory of your choice.

- 3- Open the terminal and enter into the package directory using cd command. e.g.

adnan@ubuntu:~ cd /Downloads/polym1.5.5\$

- 4- In the PolyML directory, type the following commands one by one;

./configure --prefix=/usr

make

sudo make install

- 5- Download HOL from the following link.

<http://www.mediafire.com/download/67xv5d41vy8h128/kananaskis-8.tar.gz>

Untar and enter into the HOL package directory using cd command. e.g.

adnan@ubuntu:~/Downloads/hol-kananaskis-8\$

- 6- Type the following command in terminal,

poly < tools/smart-configure.sml

Wait for configuration to complete.

- 7- Type the following command in terminal,

bin/build

The installation of HOL begins if the above procedure is followed correctly, and after some time, it will complete the installation.

8- Install the Emacs by using the following command in the terminal.

sudo apt-get install emacs

After completion of Emacs installation, open emacs, and change the directory from HOME to HOL by using cd command. e.g.

adnan@ubuntu:~/Downloads/hol-kananaskis-8\$

Type the command

bin/hol

Now you can start interacting with the HOL session.

Installation of HOL-LIGHT

Open the terminal and run the following commands step by step that will download, compile and install HOL-LIGHT, including compatible versions of OCaml and Camlp5.

1- Make the directory for installation of HOL-LIGHT by using following command.

mkdir hol-light-workbench

2- Enter into HOL-LIGHT directory by using following command.

cd hol-light-workbench

3- Download the script that will download, compile and install HOL-LIGHT, by using the following command.

wget https://bitbucket.org/akrauss/hol-light-workbench/raw/tip/setup

4- Run the following command.

chmod 755 setup

5- Run the script by using the following command.

./setup

This will complete the OCaml, Camlp5 & HOL-LIGHT installation.

6- Now run following command to adjust paths.

. setpaths

Now, you can run HOL Light as follows:

```
cd hol-light
```

```
ocaml
```

```
# #use "hol.ml";;
```