Synthesis Tutorial for windows

In this tutorial, we are going to synthesis a full adder and please make sure you have run.tcl and fa.v files and connection to Internet.

1 Putty

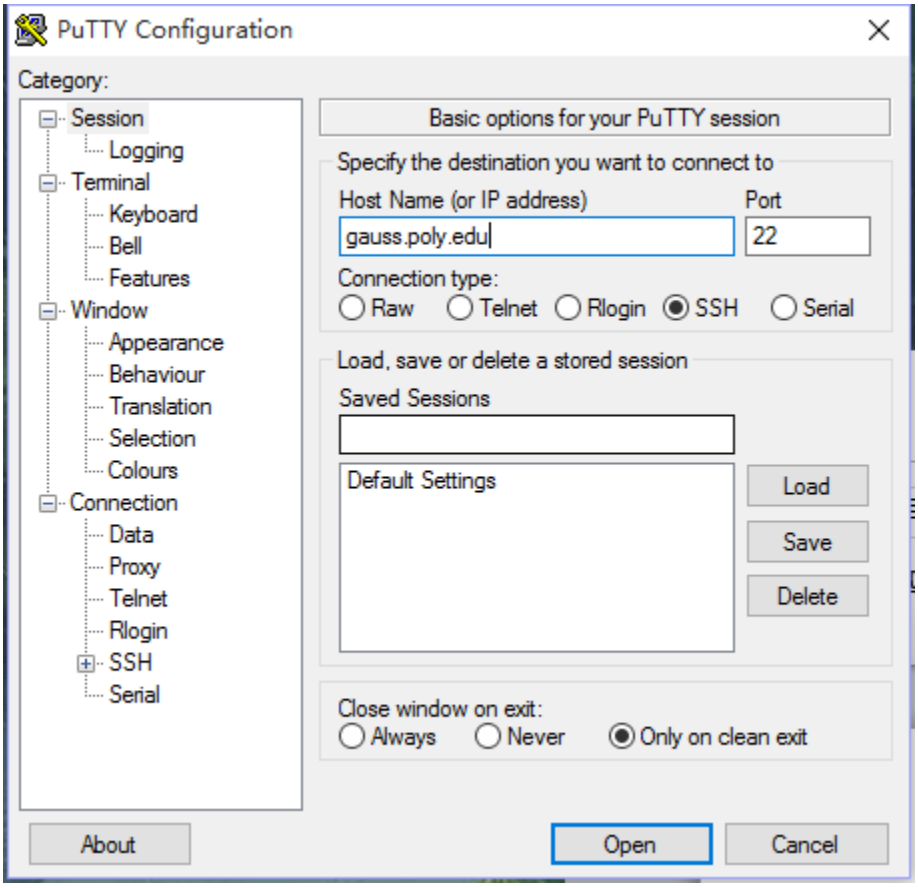
Download Putty from the following link:

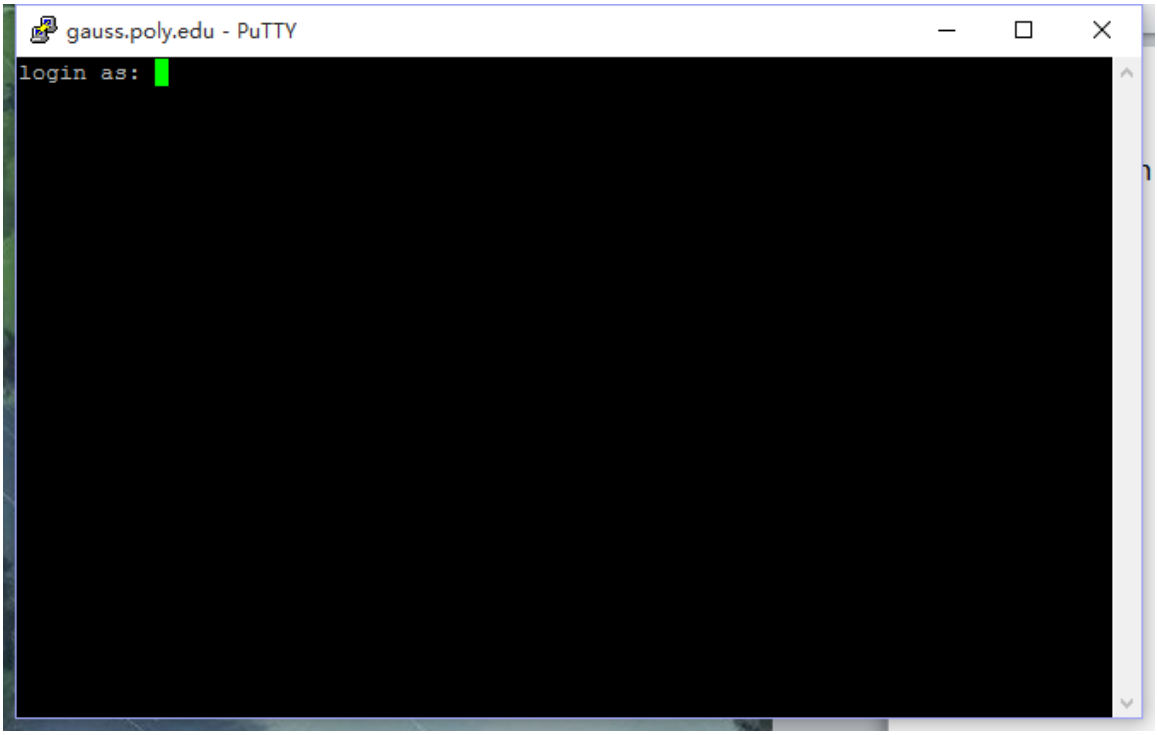
http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

Install PuTTY by double clicking the downloaded file.

Double click and open it.

Enter the Host Name as: gauss.poly.edu and click Open

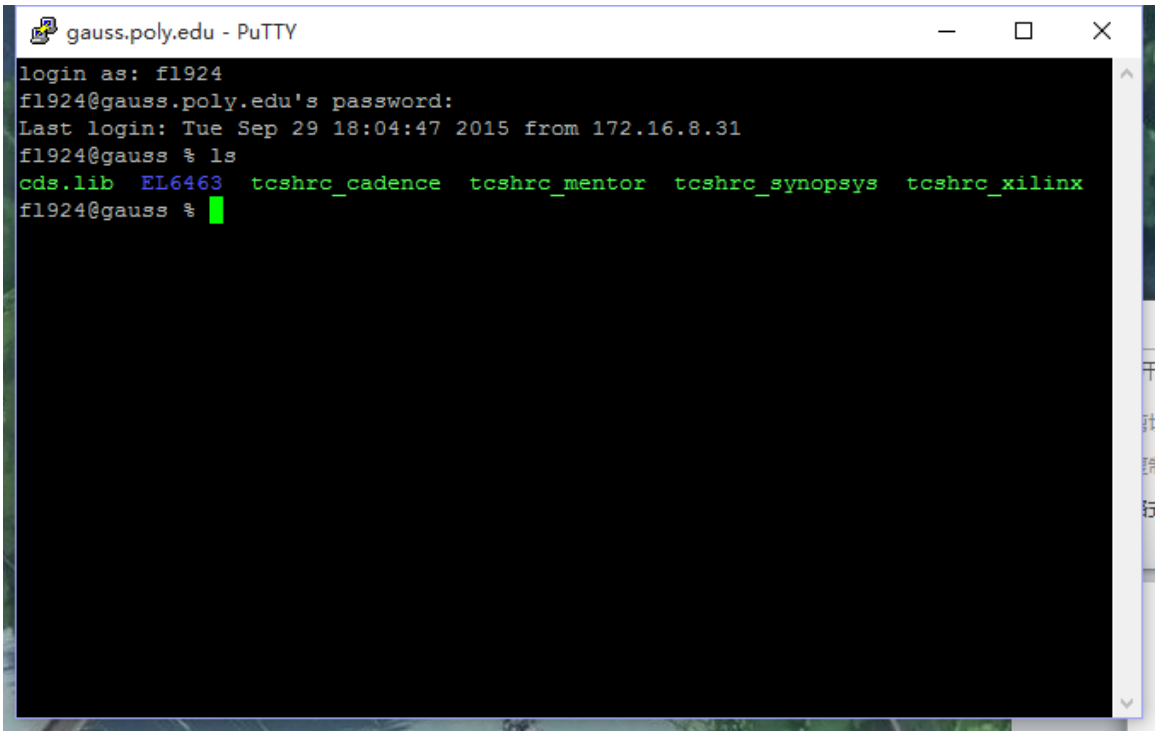




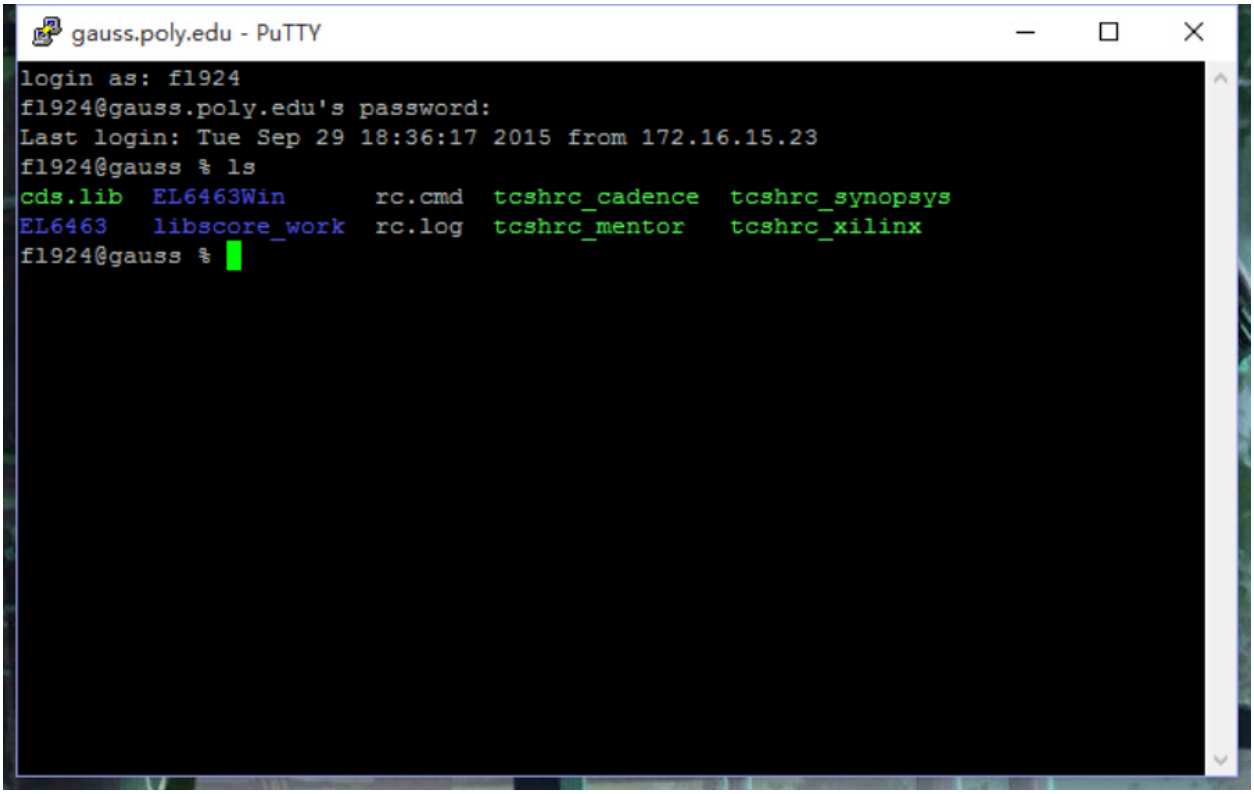
This window should open if you have done everything correct.

Login using your NetID and Password (N number, example: N12345678).

You can use command: **ls** , to check what is in your root folder



create a project for your project using command: **mkdir EL6463Win** (You can name the folder what ever you want).



2. Copy project files (run.tcl and fa.v)to Guass

Download FileZilla to transfer local files to Gauss.

https://filezilla-project.org/download.php?type=client

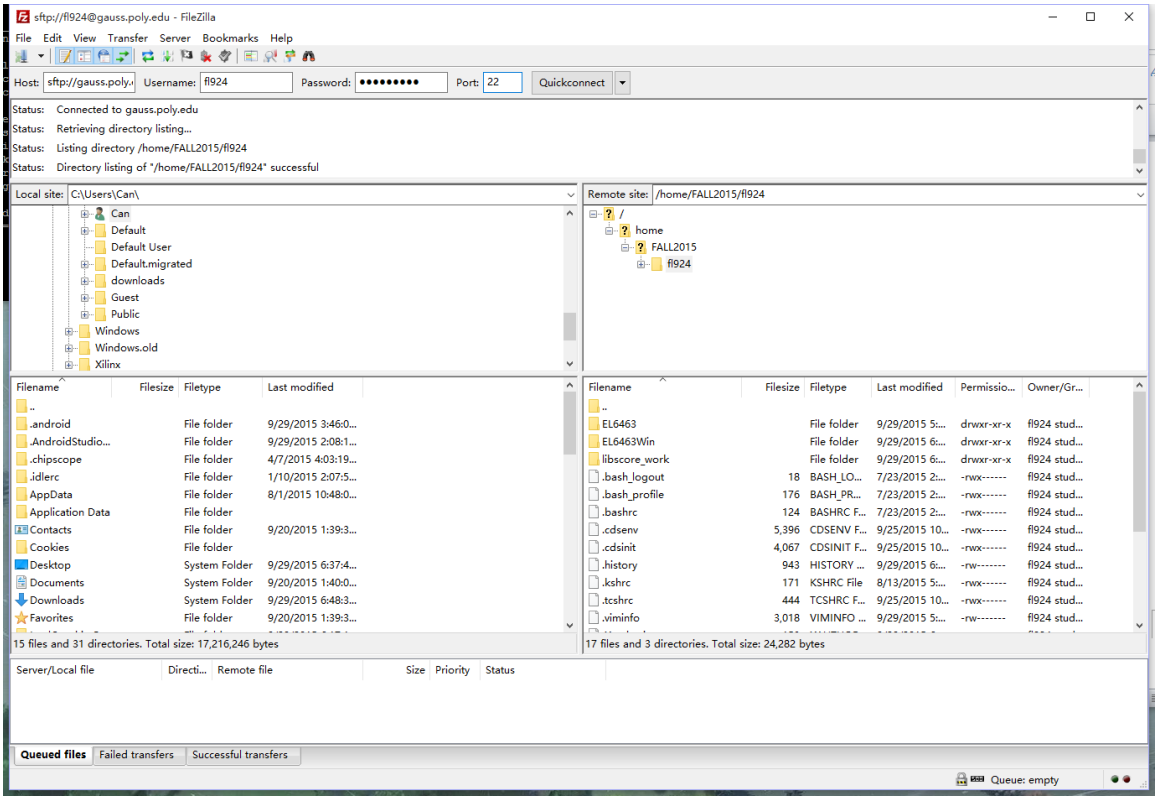
After you install it, start FileZilla and Quickconnect to Gauss.

Connection Info:

Host: gauss.poly.edu

Username: NetID

Password: N number (example: N12894649)

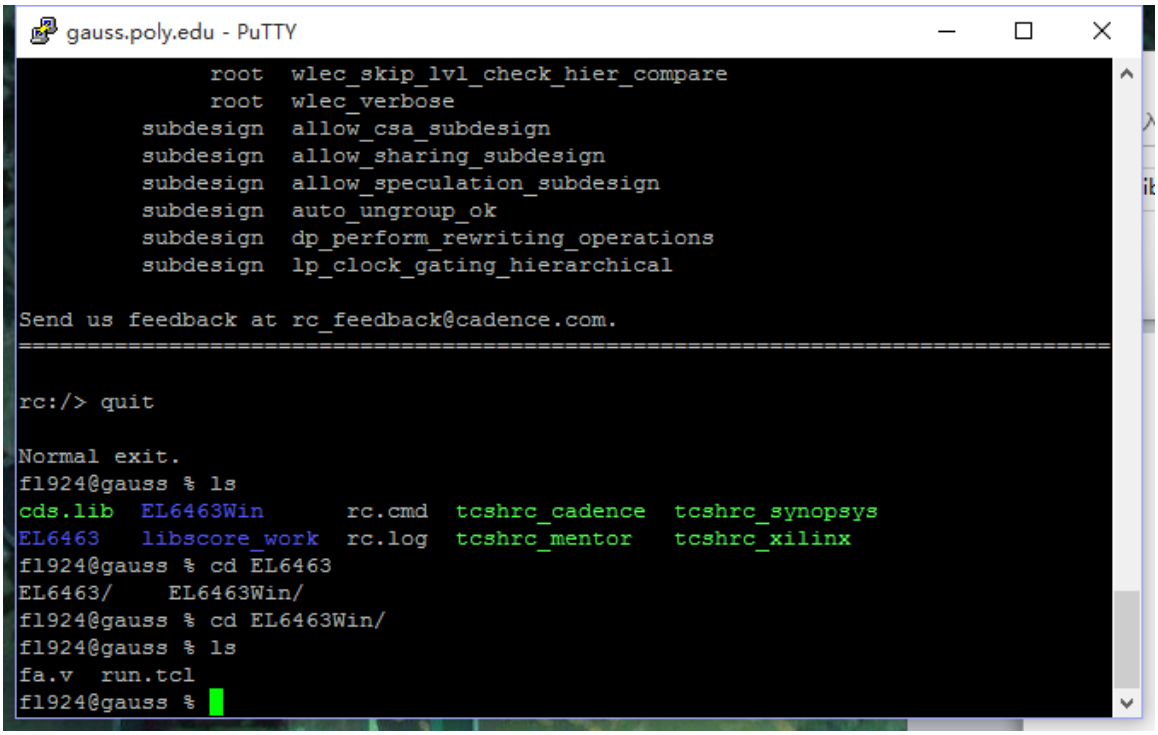


Drag run.tcl and fa.v to our project folder: EL6463Win

3 Synthesis on Putty

login to Gauss and go to project folder

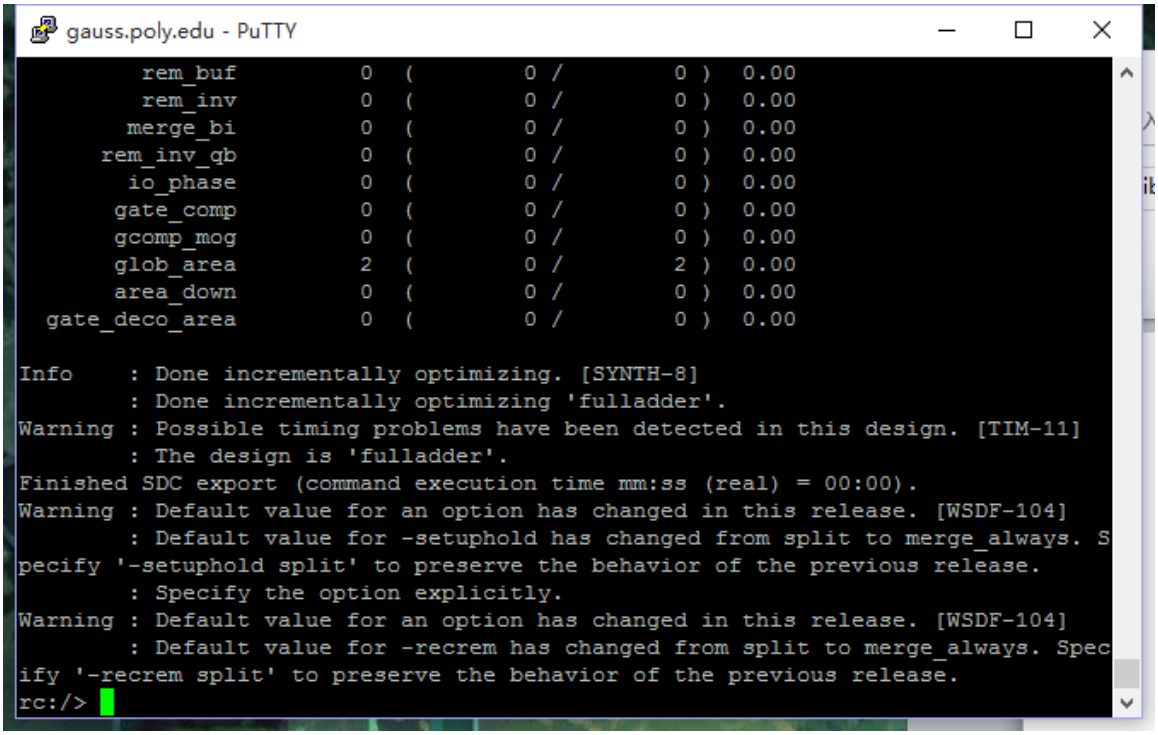
cd EL6463Win



run synthesis using command:

rc –f run.tcl

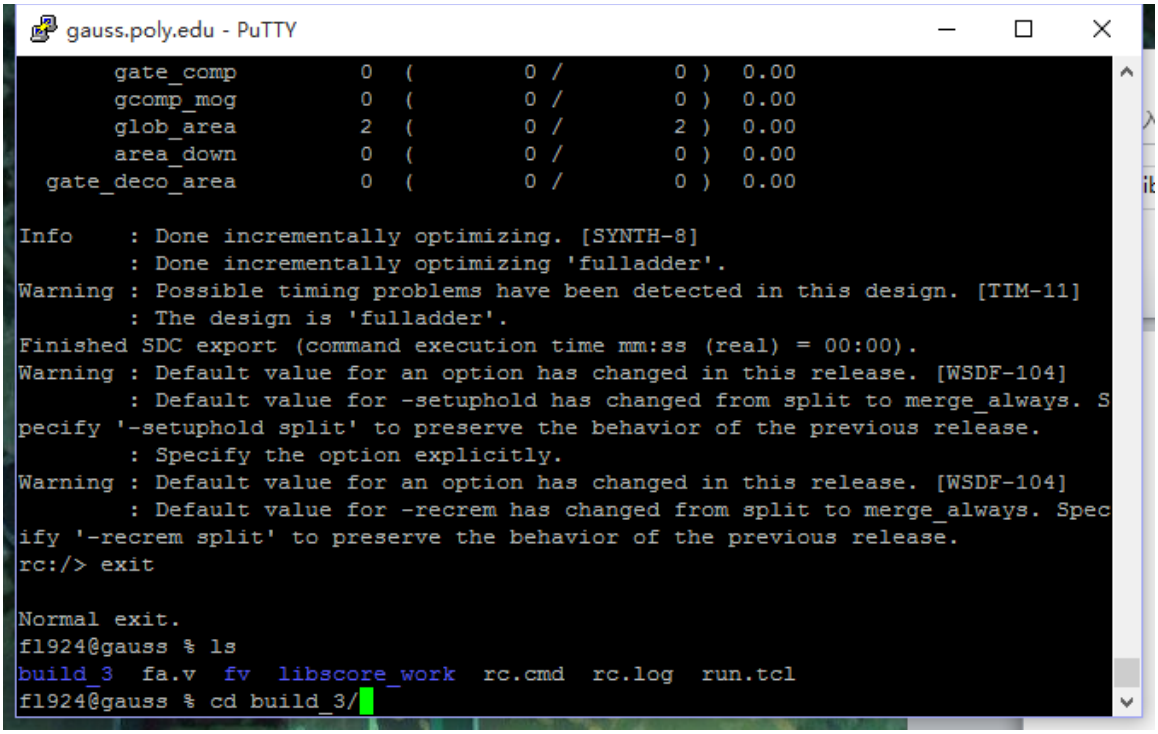
After finished, you should see the following window



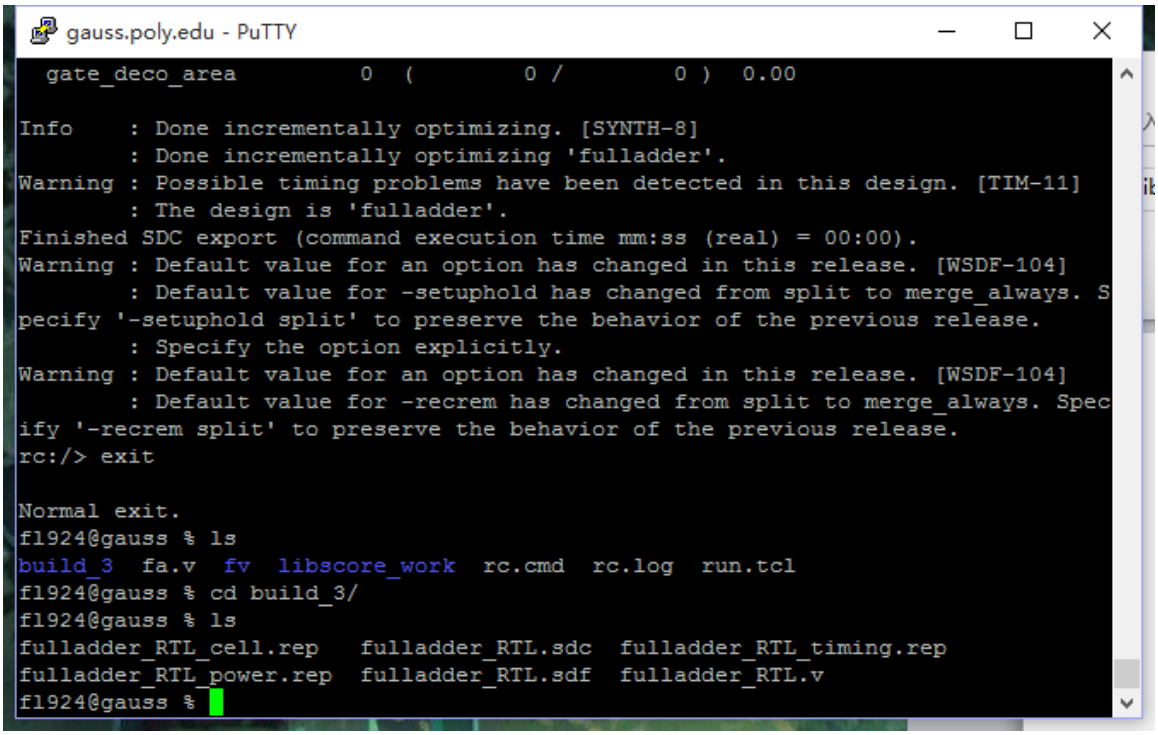
Quit rc mode using command: **exit**

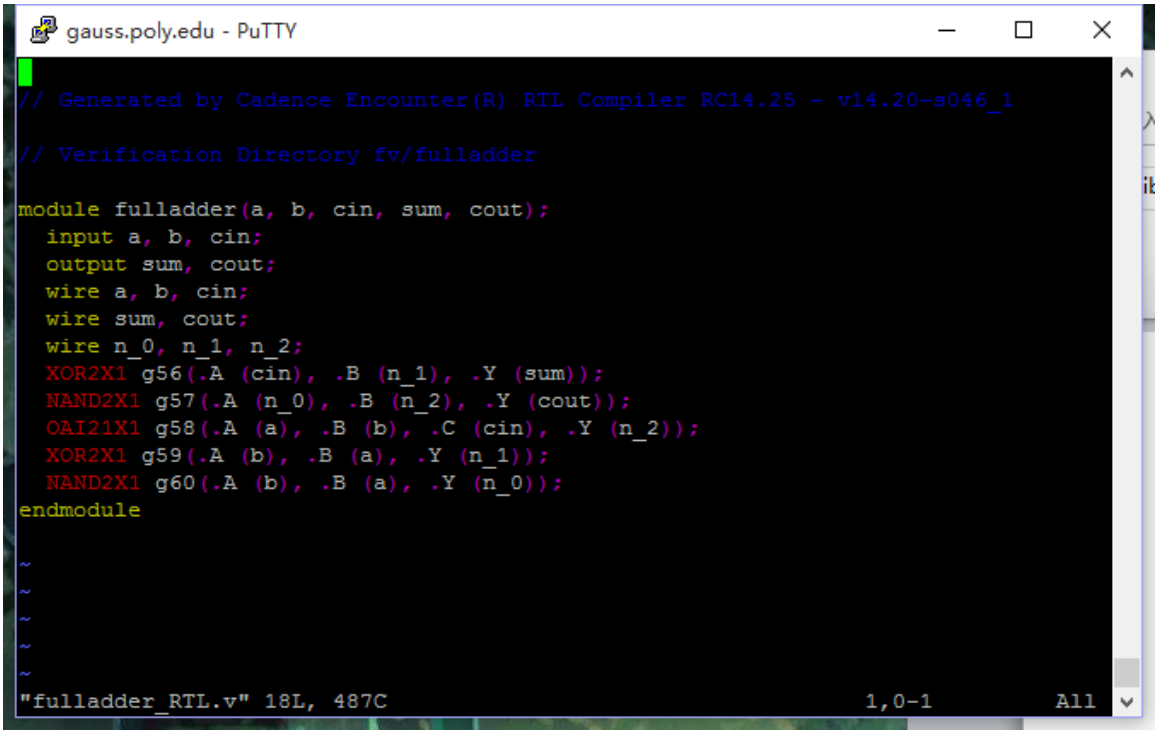
4. Check synthesis result.

Go to folder build_3 using command: **cd build_3**



There are several files in bulid_3 and open fulladder_RTL.v using **vim fulladder_RTL.v**





This is the RTL result after synthesis.