AMD/Xilinx ISE Webpack Use in ENB 214 or Your Laptop

Xilinx is now part of AMD starting 2022. You will see both names used throughout the semester.

ISE is installed already on lab computers (ENB 214). You need ISE for all the labs in this course. Adept2 software is also installed on lab computers which is for downloading your designs on FPGAs starting Lab 3.

It might be also possible to install ISE on your own laptops, but you may need to use several tricks for that. This solely depends on your OS and laptop specifications. We leave it on your own risks to troubleshoot such installations on your own laptops, but we also have some guidelines below in case you want it on your own laptops.

In case you absolutely need ISE on your own laptops read below

Please visit the following page to download the latest ISE version Webpack (it would require an account):

https://www.xilinx.com/support/download/index.html/content/xilinx/en/downloadNav/vivado-design-tools/archive-ise.html

You have 2 choices to install ISE on your machine. The first choice is the preferred choice on newer Windows (11 or 10) with the use of Virtual box. We suggest using Choice 1. The second choice is to install ISE without the help of virtual box, natively on your machine, which may or may not work.

Choice 1 (works for Win 10, 11):

Select Version 14.7 (Win 10).

CHOOSE THE FIRST ONE FOR WINDOWS 10.

Follow the video on this link (this Video recorded by a TA is for both ISE and Adept2. For Labs 1 and 2 you only need ISE explained in the first part of the Video, but eventually you will need Digilent Adept2 after Lab 3):

https://drive.google.com/file/d/1ZolMFALLt4Rp2cR4bxCFoyNsJADA2MZY/view?ts=63ed7747

Choice 2 (only if Choice 1 for some reason does not work):

Select Version 14.7 (second one).

DO NOT CHOOSE THE FIRST ONE FOR WINDOWS 10.

Scroll down and you will find, download then install it:

ISE Design Suite - 14.7 Full Product Installation

For Windows: Click "Full DVD Single File Download Image" → around 7.8GB

For Linux: Click Full Installer for Linux

Note: You will be directed to AMD website to create an account if you do not have. In this case, select ISE Archive again and choose ISE v. 14.7.

 License retrieval after installation:

1. Open Xilinx License Configuration manger(XLCM) from start Menu -> Xilinx Design tools -> ISE Design Suite -> Accessories -> Manage License
2.   In the XLCM select Acquire License tab -> Get Free Webpack License -> Next -> Connect Now.
3.   It will navigate you to the Xilinx Licensing Site.
4. Login with your account details.
5. You can download the ISE web pack license under Certificate based license section.
6. If you didn't find the license under create New Licenses Tab the most likely reason would be you have already generated the license. If that is the case, you can download the already generated license from Manage License Tab.

Use Choice 1 as our preferred method!

Known issues:

1. ISE 14.7 64-bit - crashing while opening the file

If the Xilinx ISE is crashing while opening the file, follow the following steps:

1) Navigate to the following ISE install directory:
<install_path>\Xilinx\14.7\ISE_DS\ISE\lib\nt64\

2) Rename the file "libPortability.dll" to "libPortability.dll.orig".

3) Copy the "libPortabilityNOSH.dll" file to the same folder, and rename it to "libPortability.dll".

4) Repeat steps 1-3 in the following folder:
<install_path>\Xilinx\14.7\ISE_DS\common\lib\nt64\

2. If you are having issues with using load license button while directing to the license file that you downloaded, you can follow the steps given in the image here.

1. Go to 'Manage License' tab and below 'Load License' button, you will find XILINXD_LICENSE_FILE variable.

2. Point this variable to the path of License file.

3. Click on Set. You can refer below snapshot.

Regards,
Ashish

Kindly note- Please mark the Answer as "Accept as solution" if information provided is helpful.
Give Kudos to a post which you think is helpful and reply oriented.