Xilinx Vivado Installation Tutorial

Intro. to Xilinx Vivado

- The tool which we used in this class was usually Modelsim, but it is currently unavailable due to US federal regulations. We don't know when it will be available again. As a result, we choose to use Xilinx Vivado this semester.

- Xilinx Vivado is a design suite for Xilinx FPGA design flow. It has many functions to implement a design entry on a FPGA, and supports many simulation types. In this course, we only need to use the **behavioral simulation** to complete the homeworks.

Note

- Xilinx Vivado is the same as Modelsim, which they only support Windows and Linux operating systems. For those who use MAC OS, we recommend you to install virtual machine with Windows or Linux OS and install Xilinx Vivado.

- The following installation tutorial is for Windows. You can install it on Linux OS, too.

Step 1

- Goto https://www.xilinx.com/support/download.html
- Download **Xilinx Unified Installer 2022.2: Windows Self Extracting Web Installer**

Step 2

- Create and activate an account

Step 3

- Get US Government Export Approval

Step 4

- If it doesn't start downloading, close the page and press the link, fill the approval again.

Step 5

- After downloading, run the installer.
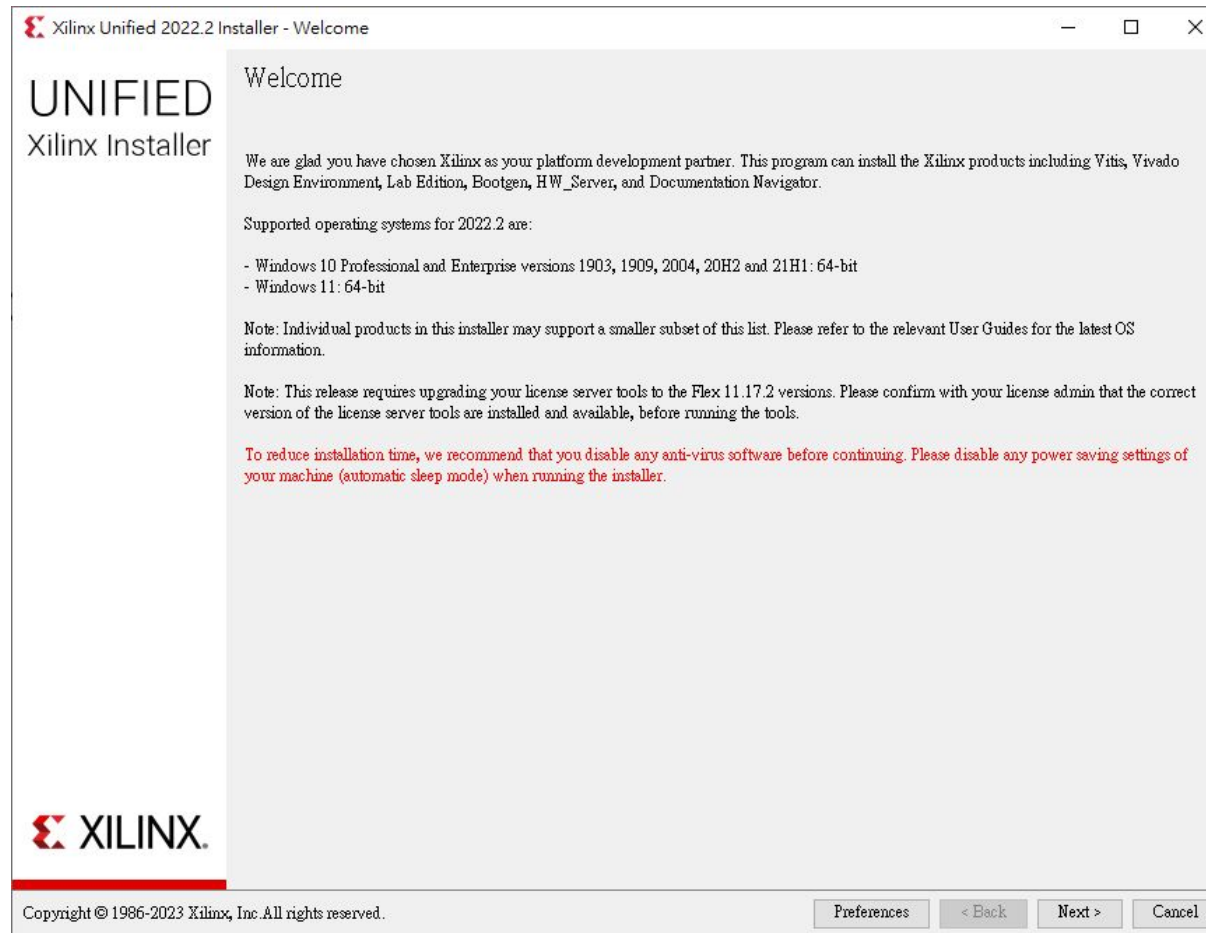
Step 6

- Execute the file you download and choose the options like the following pictures.
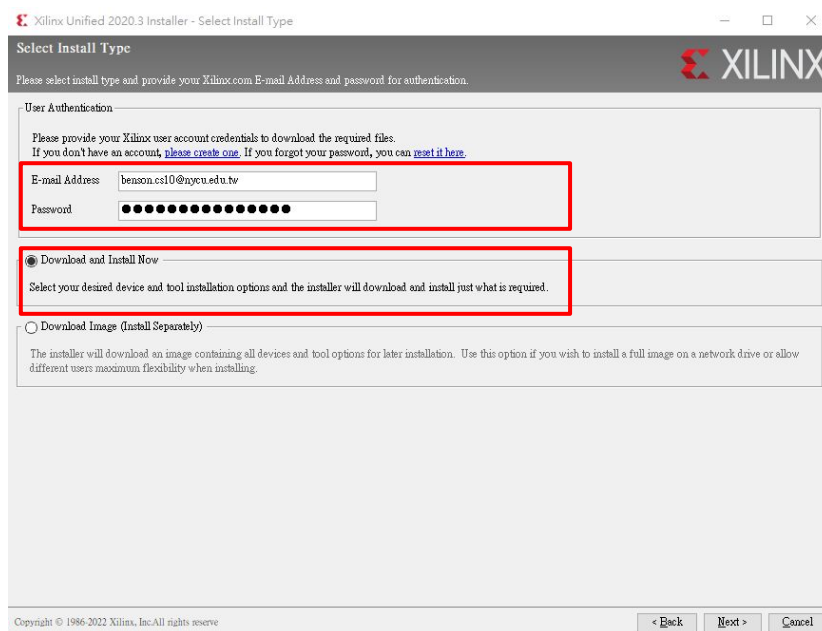
Step 7

- We only need behavioral simulation function, so I disabled other unnecessary functions.
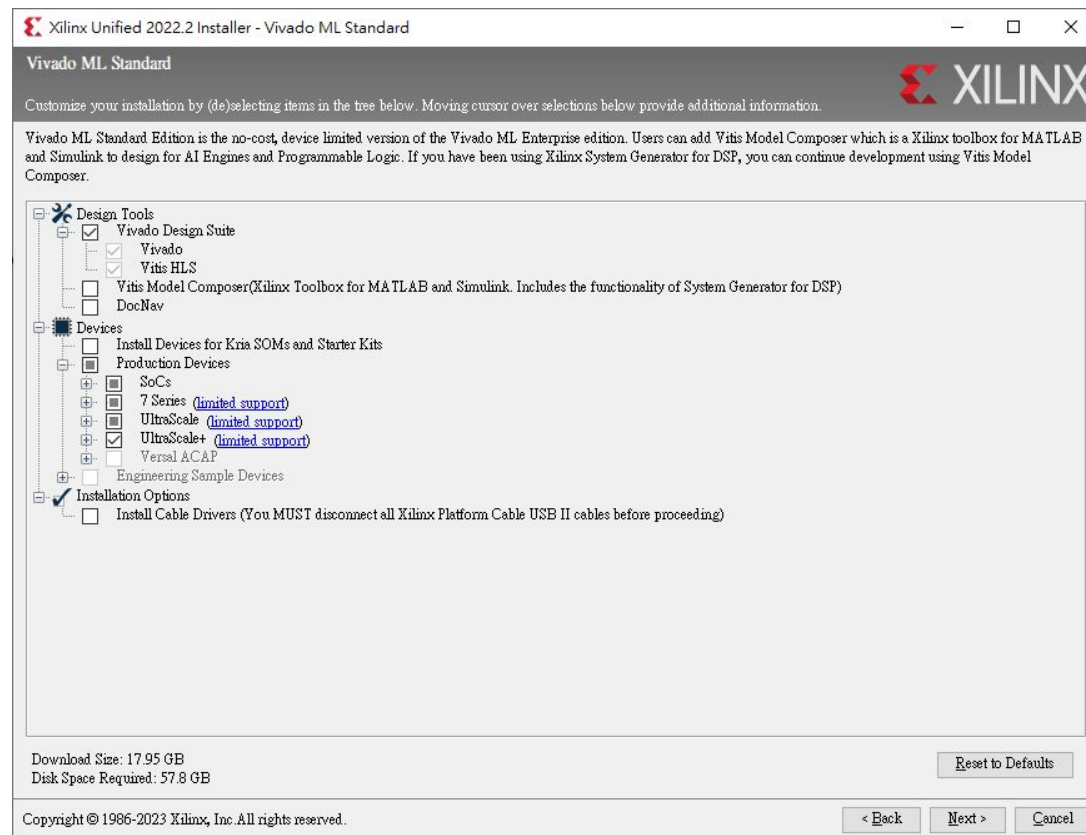
Step 8

- You can decide your own installation directory.

Step 9

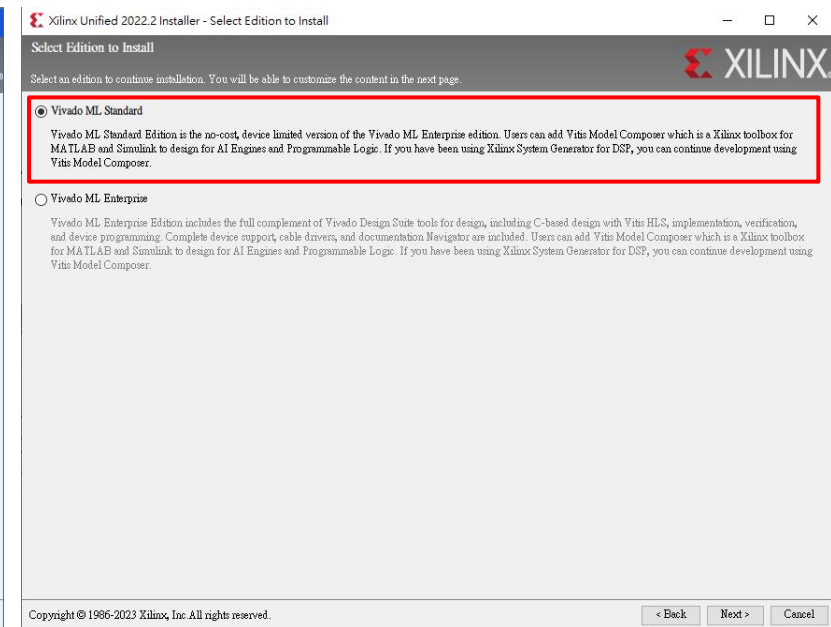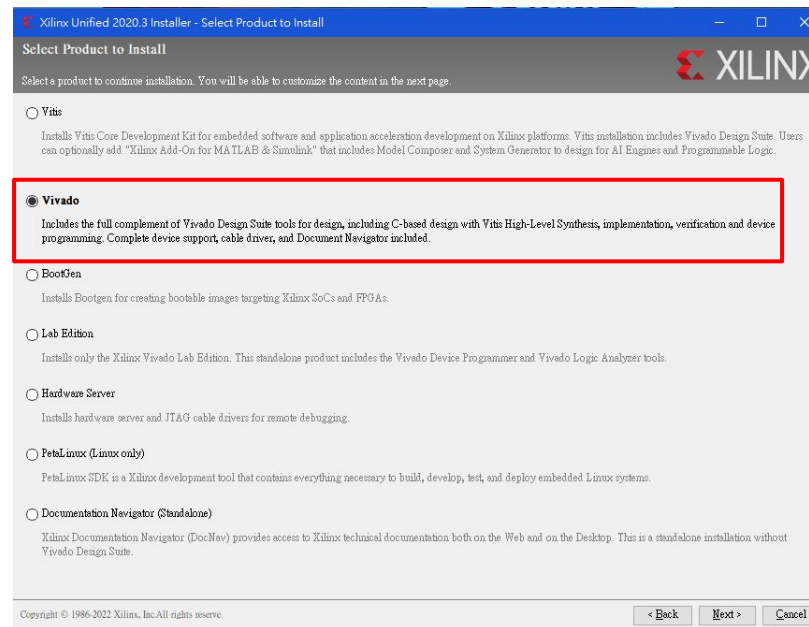- Finally, wait for the installer to install the software. Note that the installer probably needs much time to install.
- You may need to reboot the computer after the installation.

QA

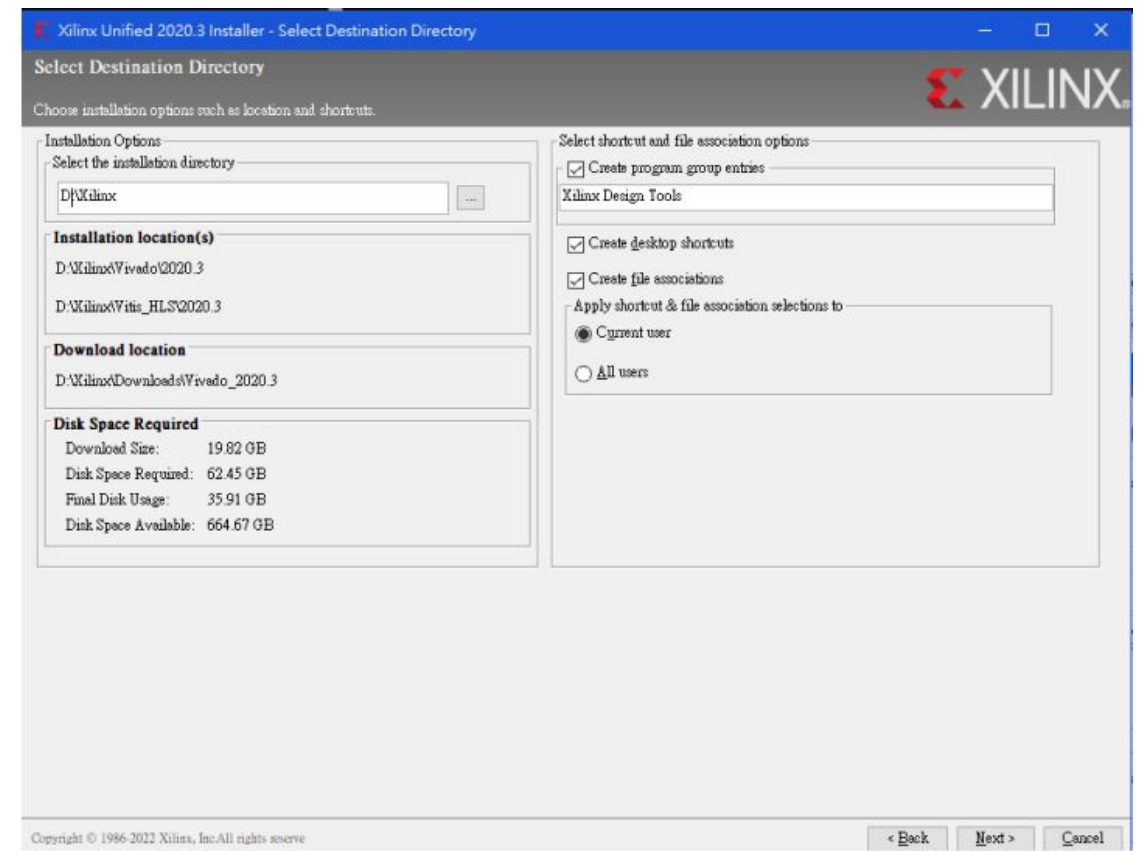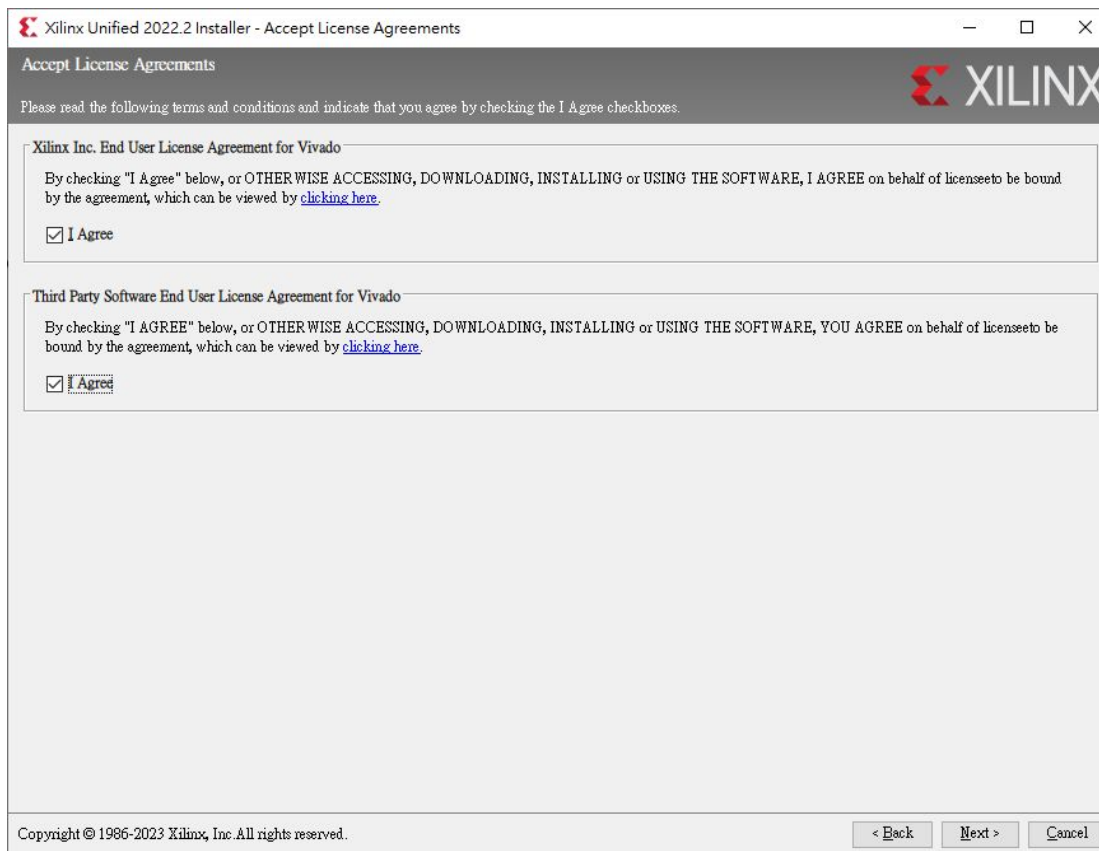- If you have any question, feel free to send an Email to TAs or post your question on the Teams discussion forum.
  - https://teams.microsoft.com/l/channel/19%3a078bb4ffa94f4f00a0 8a2f828296a150%40thread.tacv2/%25E8%25AA%25B2%25E7%25A 8%258B%25E8%25A8%258E%25E8%25AB%2596%25E5%258D%25 80?groupId=e4b5cbb4-81d6-4dac-88a3-87e1a3802809&tenantId= 80a9abdb-7cef-443c-b040-3f8e75e9232e