

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**

Windows

 [Xilinx Unified Installer 2022.2: Windows Self Extracting Web Installer](#)
(EXE - 209.61 MB)

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Linux

 [Xilinx Unified Installer 2022.2: Linux Self Extracting Web Installer \(BIN - 271.02 MB\)](#)

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Step 2

- Create and activate an account



The AMD Login Form is displayed on a light gray background. At the top, the AMD logo is centered. Below it, the word "登入" (Login) is centered in a large, bold font. The form contains two input fields: "電子郵件地址" (Email Address) and "密碼" (Password). Below these fields is a "登入" (Login) button. At the bottom, there is a "創建密碼" (Create Password) button and a link for "忘記/重設密碼?" (Forgot/Reset Password?). At the very bottom, there are three links: "幫助" (Help), "隱私權" (Privacy), and "使用條款" (Terms of Use).

AMD

登入

電子郵件地址

密碼

登入

創建密碼

[忘記/重設密碼?](#)

[幫助](#) [隱私權](#) [使用條款](#)



The AMD Account Creation Form is displayed on a white background. At the top, the title "AMD 帳戶創建" (AMD Account Creation) is centered. Below it, there is a note: "如需創建帳戶，請填寫以下表格。" (To create an account, please fill out the following form.). Another note follows: "帶有訪問令牌的帳戶激活消息將通過電子郵件發送至您在下方預留的電子郵件地址。" (Account activation messages with access tokens will be sent via email to the email address you provide below.). The form contains four input fields: "名" (First Name), "姓" (Last Name), "電子郵件" (Email), and "語言首選項" (Language Preference). Below the "電子郵件" field, there is a note: "對於商業用戶，請提供您公司的電子郵件地址，以便完全訪問許可、技術支持和服務等專區內容。對於其他用戶，請使用您的個人電子郵件地址。" (For business users, please provide your company email address to fully access permissions, technical support, and service content. For other users, please use your personal email address.). Below the "語言首選項" field, there is a "居住地" (Residence) dropdown menu. At the bottom, there is a note: "創建帳戶即表示您同意 AMD 使用條款和隱私政策。" (Creating an account indicates you agree to AMD's Terms of Use and Privacy Policy.).

AMD 帳戶創建

如需創建帳戶，請填寫以下表格。

帶有訪問令牌的帳戶激活消息將通過電子郵件發送至您在下方預留的電子郵件地址。

名 *

姓 *

電子郵件 *

語言首選項 *

英文

居住地 *

選擇一個

創建帳戶即表示您同意 AMD 使用條款和隱私政策。

Step 3

• Get US Government Export Approval

U.S. Government Export Approval

- U.S. export regulations require that your First Name, Last Name, Company Name and Shipping Address be verified before Xilinx can fulfill your download request. [Please provide accurate and complete information.](#)
- Addresses with Post Office Boxes and names/addresses with Non-Roman Characters with accents such as grave, tilde or colon **are not supported** by US export compliance systems.

First Name*

Yu-Cheng

Last Name*

Liu

Business E-mail*

benson.cs10@nycu.edu.tw

Company Name*

NYCU

Please enter the name of your business or institution.

Address 1*

1001 University Road, Hsinchu, Taiwan 300, ROC

Please enter your Company Address.

Address 2

Location*

Taiwan

State/Province

City*

Hsinchu

Postal Code

Phone

Job Function*

Student

You can read about how we handle your personal data, your personal data rights, and how you can contact us in our [privacy policy](#).

Download

Step 4

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


Products

Company


AMD
XILINX

Chrome and Microsoft Edge web browsers.

- Starting with the Vivado ML 2021.1 release, this and newer releases offer only 2 Editions for Vivado ML. Please go to [product page](#) for more details.
- Vivado ML 2021.1 and later versions require upgrading your license server tools to the Flex 11.17.2.0 versions.

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First Name *

Yu-Cheng

Last Name *

Liu

Business E-mail *

benson.cs10@nycu.edu.tw

Company Name *

NYCU

Please enter the name of your business or institution.

Address 1 *

1001 University Road, Hsinchu, Taiwan 300, ROC

Please enter your Company Address.

Address 2

Location *

Taiwan

State/Province

City *

Hsinchu

Postal Code

Phone

Job Function *

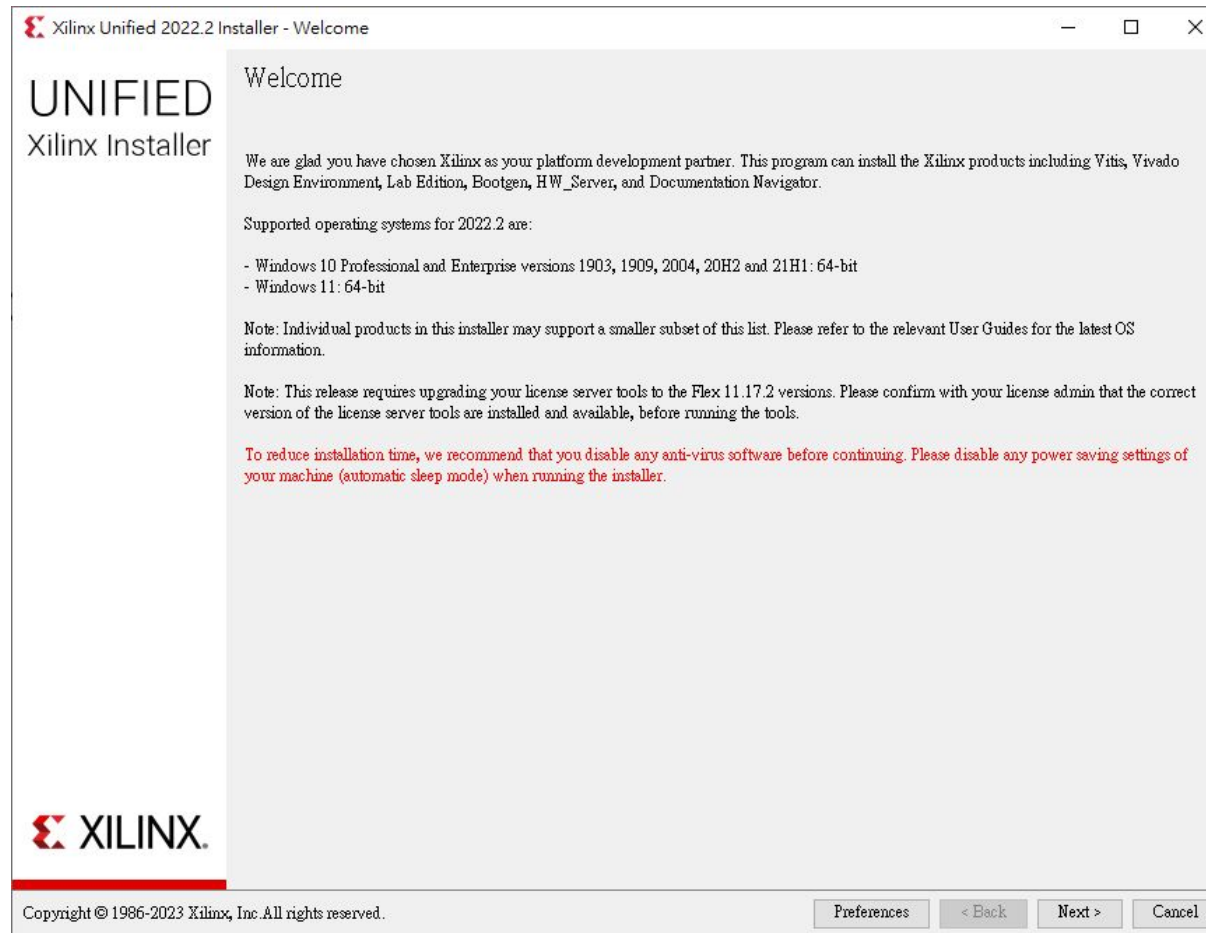
Student

You can read about how we handle your personal data, your personal data rights, and how you can contact us in our [privacy policy](#).

Download

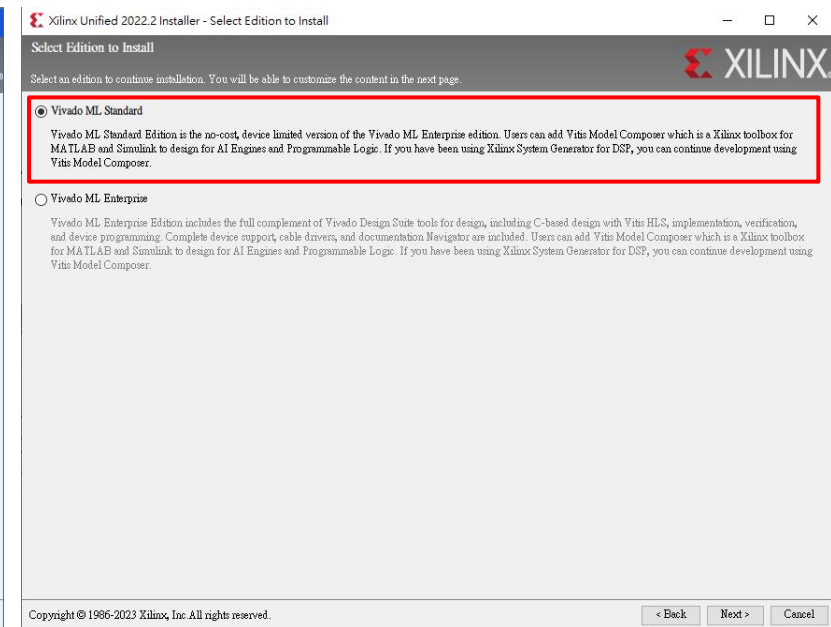
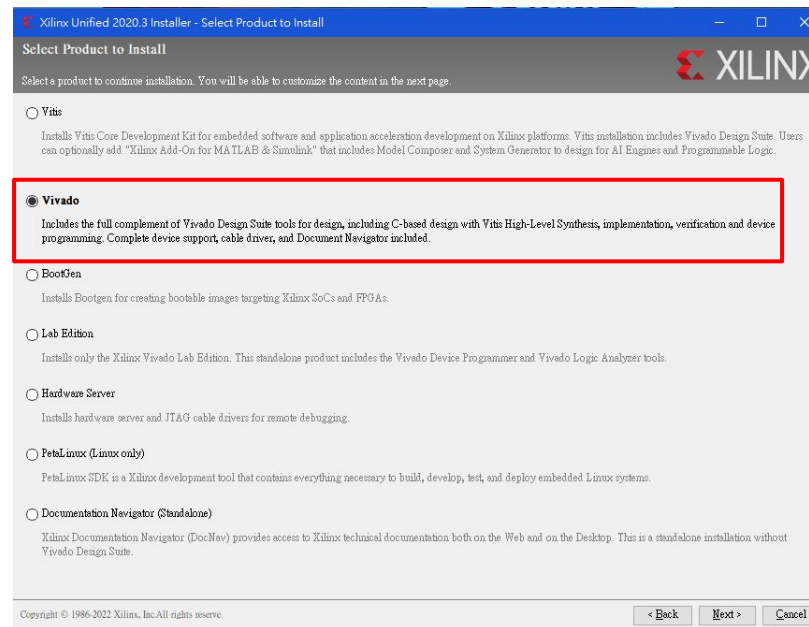
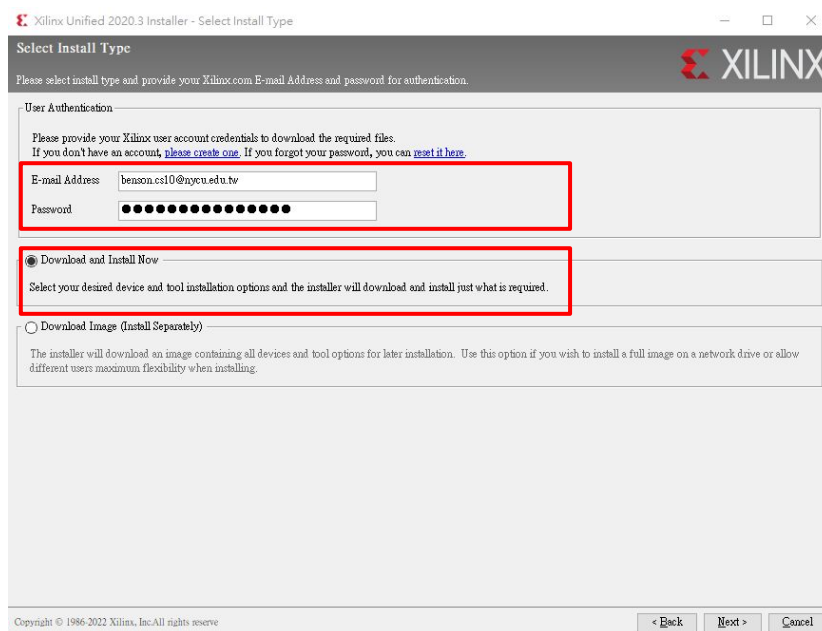
Step 5

- After downloading, run the installer.



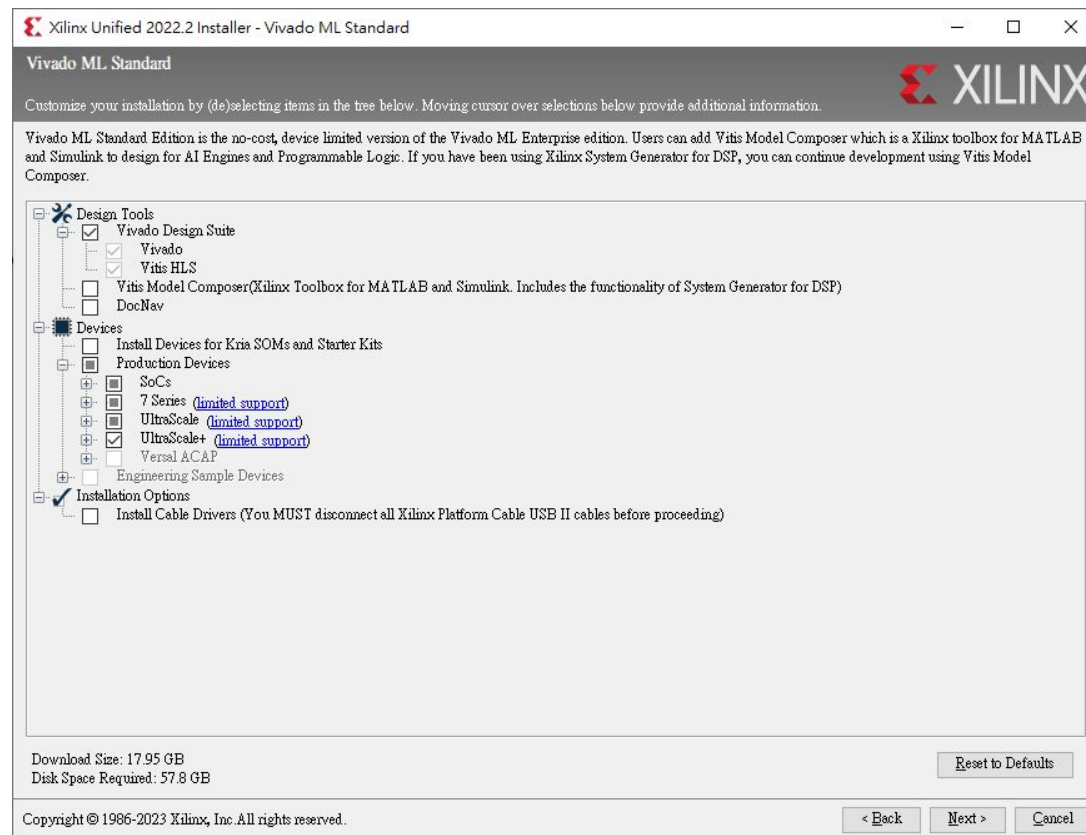
Step 6

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



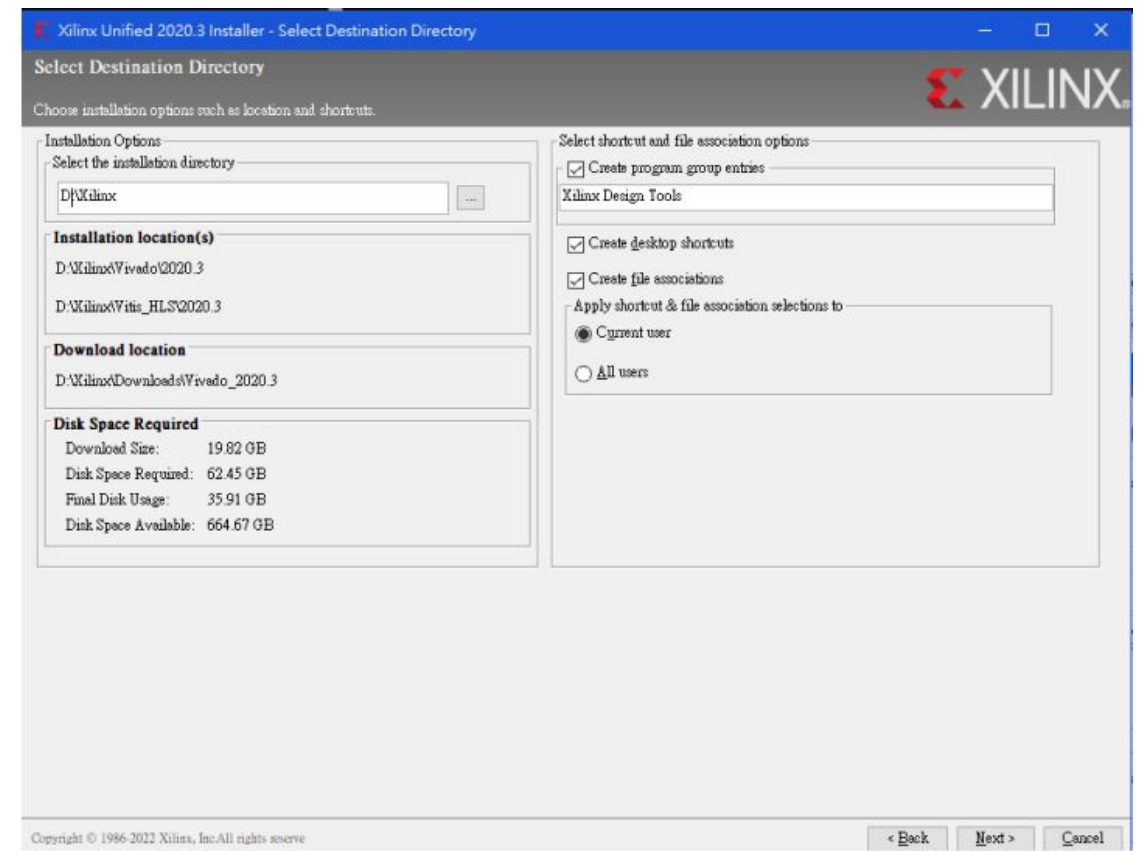
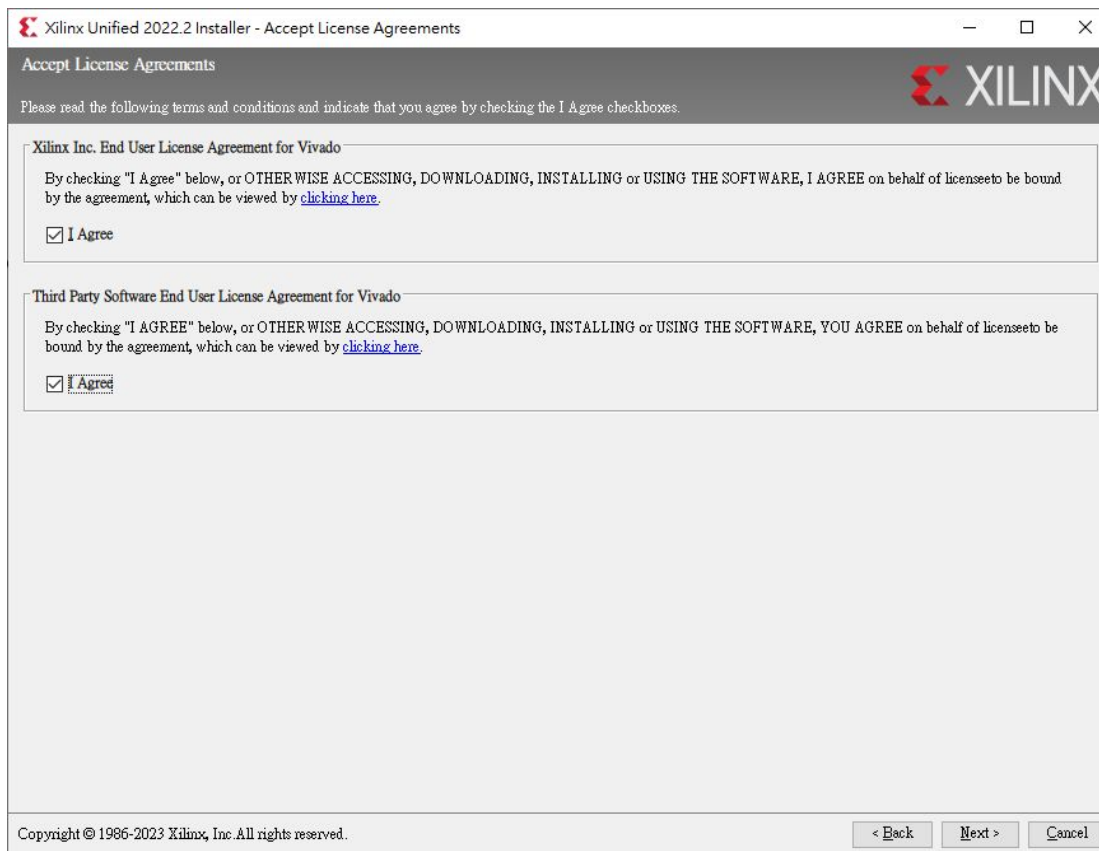
Step 7

- 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%3a078bb4ffa94f4f00a08a2f828296a150%40thread.tacv2/%25E8%25AA%25B2%25E7%25A8%258B%25E8%25A8%258E%25E8%25AB%2596%25E5%258D%2580?groupId=e4b5cbb4-81d6-4dac-88a3-87e1a3802809&tenantId=80a9abdb-7cef-443c-b040-3f8e75e9232e>