

# **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 2023.2: Windows Self Extracting Web Installer**

The screenshot displays the Xilinx download page for the 2023.2 version of the Unified Installer. It features two main sections, one for Windows and one for Linux, each with a download link, MD5 SUM value, and download verification options.

**Windows Section:**

- Download Link: [AMD Unified Installer for FPGAs & Adaptive SoCs 2023.2: Windows Self Extracting Web Installer \(EXE - 203.13 MB\)](#)
- MD5 SUM Value: 50e8baea82f54dc8a83b86dce491ee80
- Download Verification: [Download Verification](#) (with information icon)
- Buttons: [Digests](#), [Signature](#), [Public Key](#)

**Linux Section:**


- Download Link: [AMD Unified Installer for FPGAs & Adaptive SoCs 2023.2: Linux Self Extracting Web Installer \(BIN - 270.64 MB\)](#)
- MD5 SUM Value: b8c785d03b754766538d6cde1277c4f0
- Download Verification: [Download Verification](#) (with information icon)
- Buttons: [Digests](#), [Signature](#), [Public Key](#)

Windows

Linux

# Step 2

- Create and activate an account



## 登入

電子郵件地址

密碼

或

[忘記/重設密碼？](#)

[幫助](#) [使用條款](#) [隱私權](#)

## AMD Account Creation

To create an account, complete the form below.

An account activation message with an **Access Token** will be sent via e-mail to the address you specify below.

First Name \*

Last Name \*

E-mail \*

Business users, please provide your company e-mail address for full access to licensing, support, and services. All other users, please use your personal e-mail address.


Preferred Language \*

English

Location \*

Select one

By creating an account, you agree to the [AMD Terms of Use](#) and [Privacy Policy](#).

☐ I'm not a robot 

# 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 AMD 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 \*

Yomo

Last Name \*

Tsao

E-mail \*

yomofc0203.cs11@nycu.edu.tw

Company Name \*

NYCU

Address 1 \*

1001 University Road, Hsinchu, Taiwan 300, ROC

Address 2

Location \*

Taiwan

State/Province

City \*

Hsinchu

Postal Code

Phone

Job Function \*

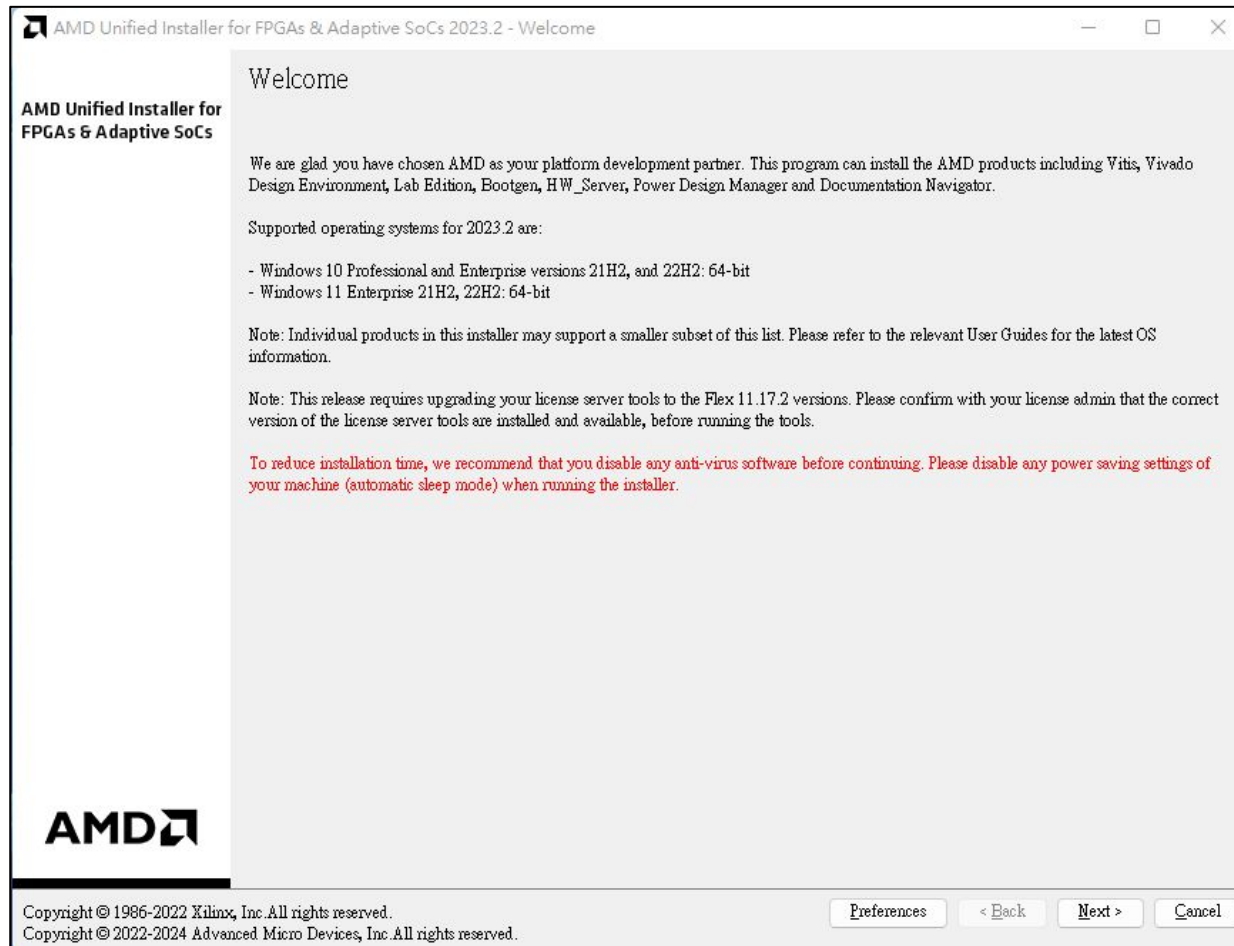
Student

## **Step 4 (optional)**

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

# Step 5

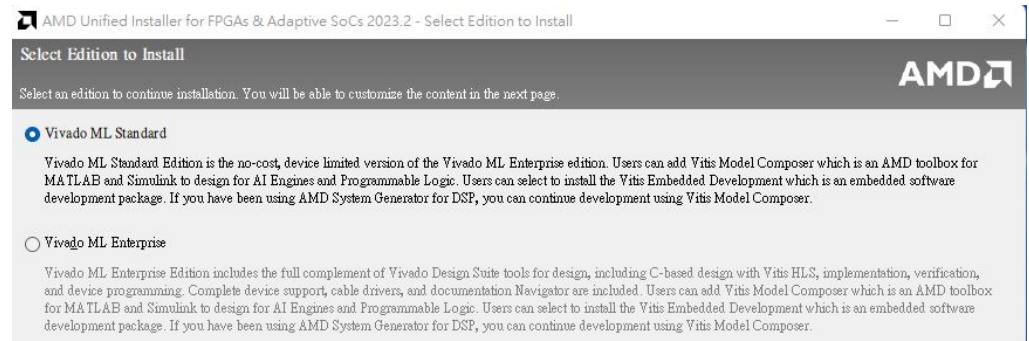
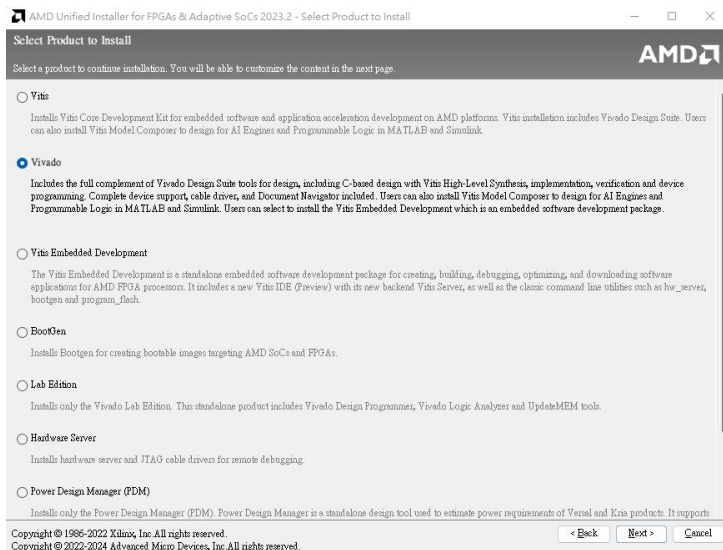
- After downloading, run the installer.





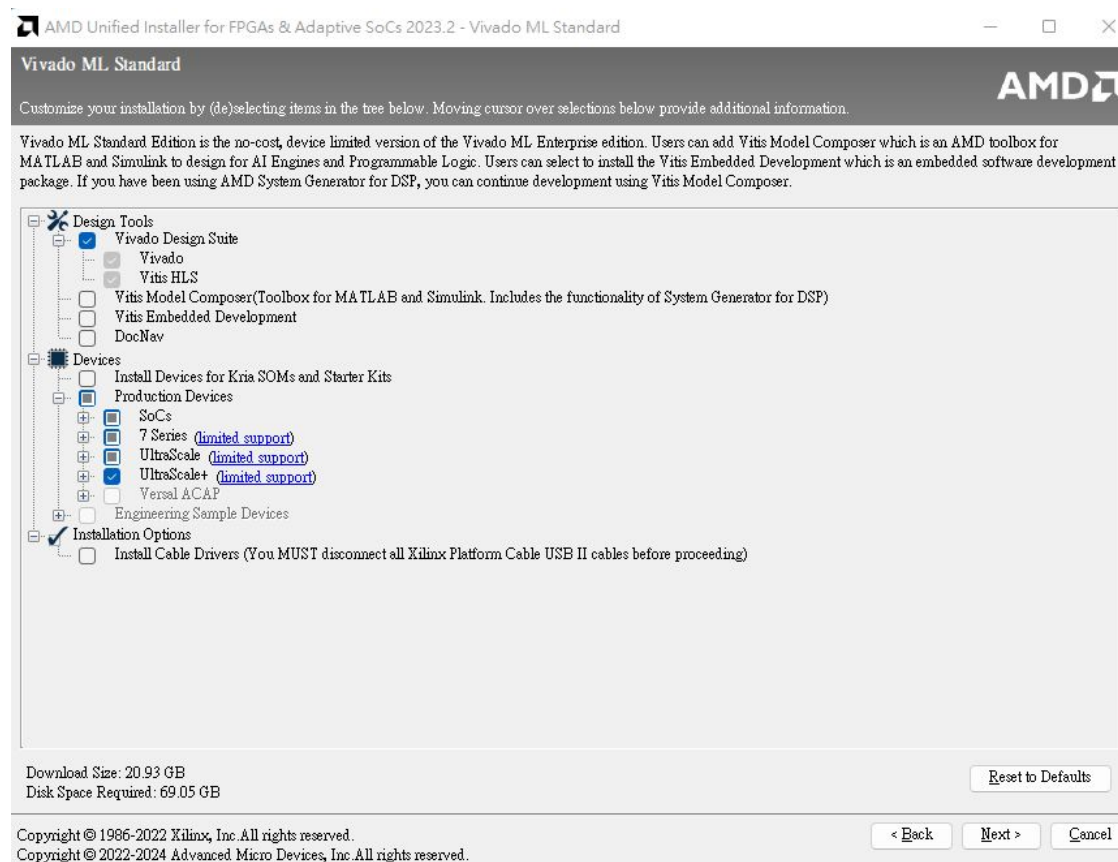
# Step 6

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



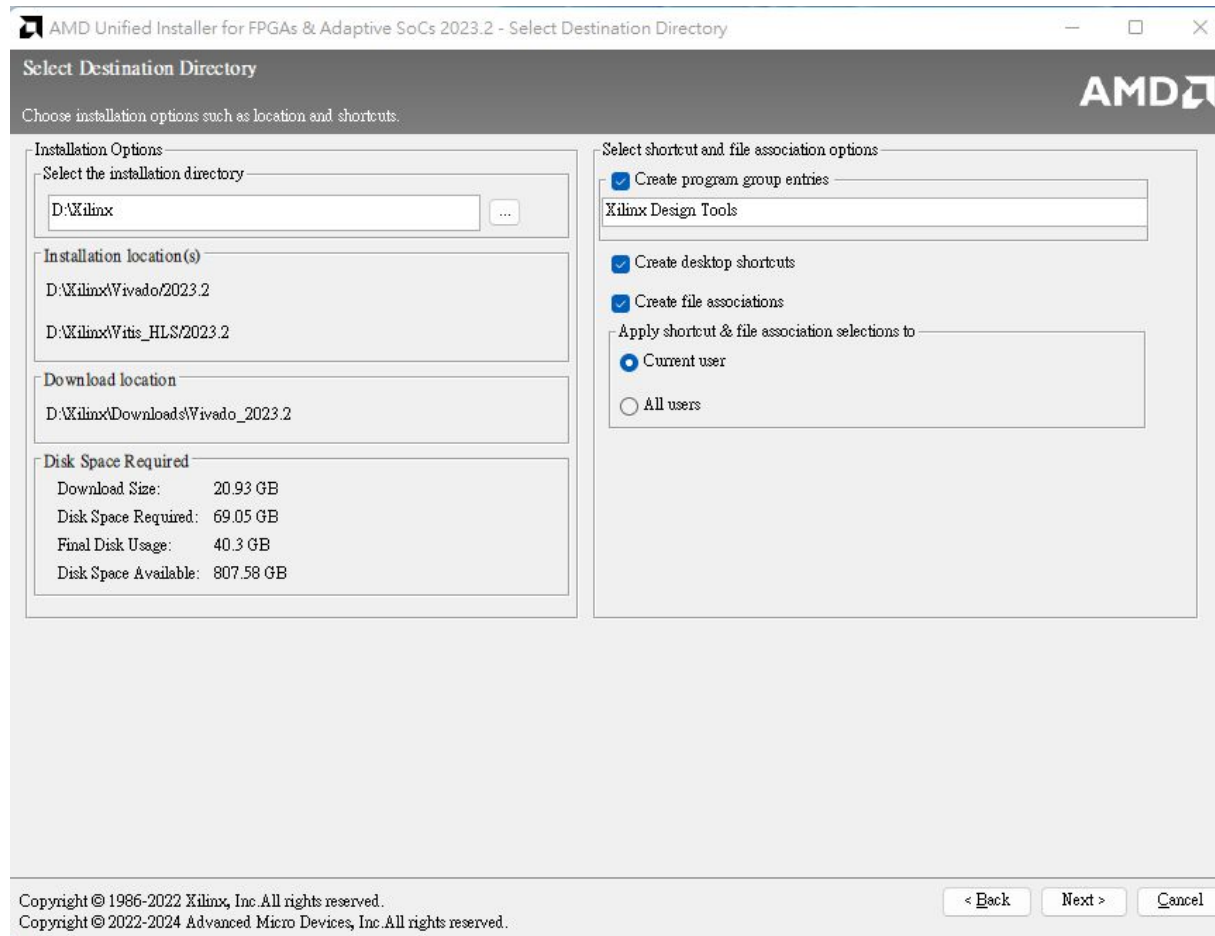
# Step 7

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



# Step 8

- Can be downloaded to your own path / 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 post your question on the Microsoft Teams discussion forum.