Environment Setup for Vivado

Prof. Jae W. Lee (jaewlee@snu.ac.kr)
Department of Computer Science and Engineering
Seoul National University

TA (snu-arc-uarch-ta@googlegroups.com)

Contents

What is vivado?

- Vivado is software developed by Xilinx
- Vivado is used for FPGA design, development, and programming
- Vivado is widely used in industries and academia for developing FPGA-based solutions

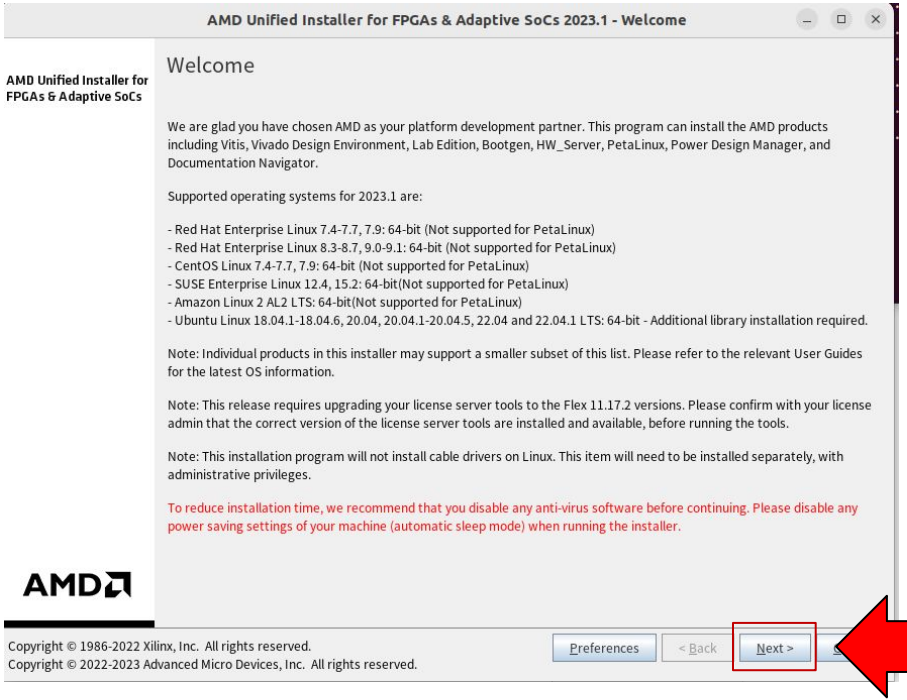
Download Vivado

- **You can download Vivado via AMD XILINX Homepage**
  https://www.xilinx.com/support/download/index.html/content/xilinx/en/downloadNav/vivado-design-tools.html
- **Recommend downloading the Vivado ML Edition (2023.1)**
  - To download it, you will need to sign up
  - Windows Version Installer

  - Linux Version installer

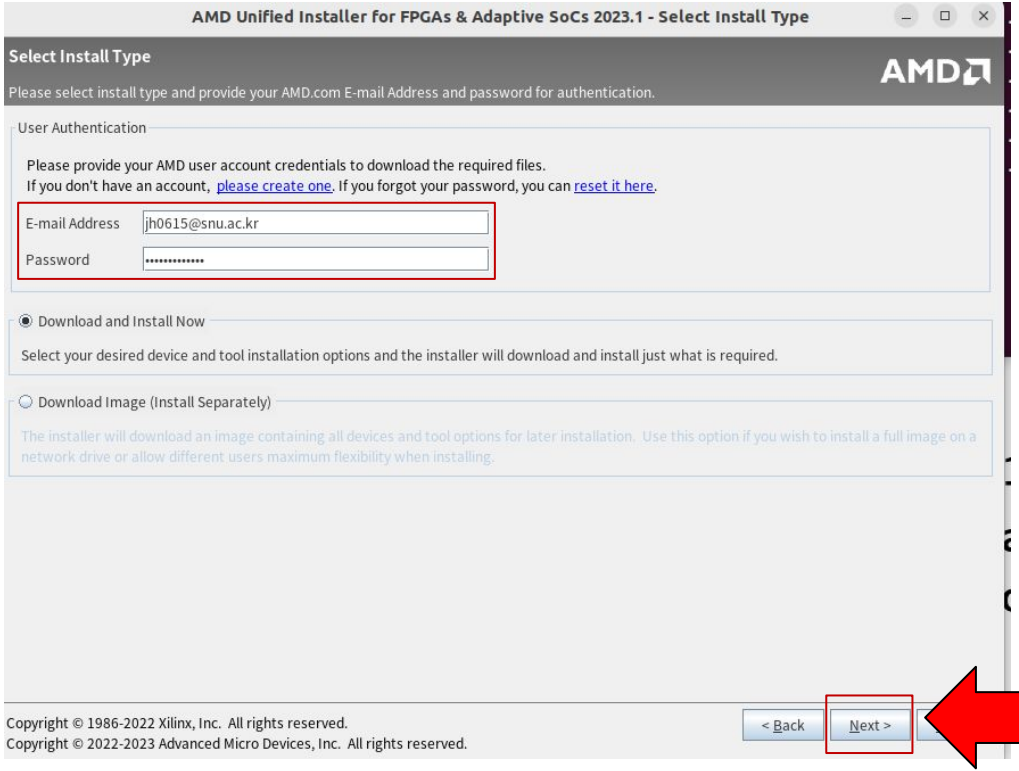
Install Vivado (Linux / Windows)

```
$> chmod +x Xilinx_XXX_xxx.bin
$> ./Xilinx_XXX_xxx.bin
```



Install Vivado (Linux / Windows)

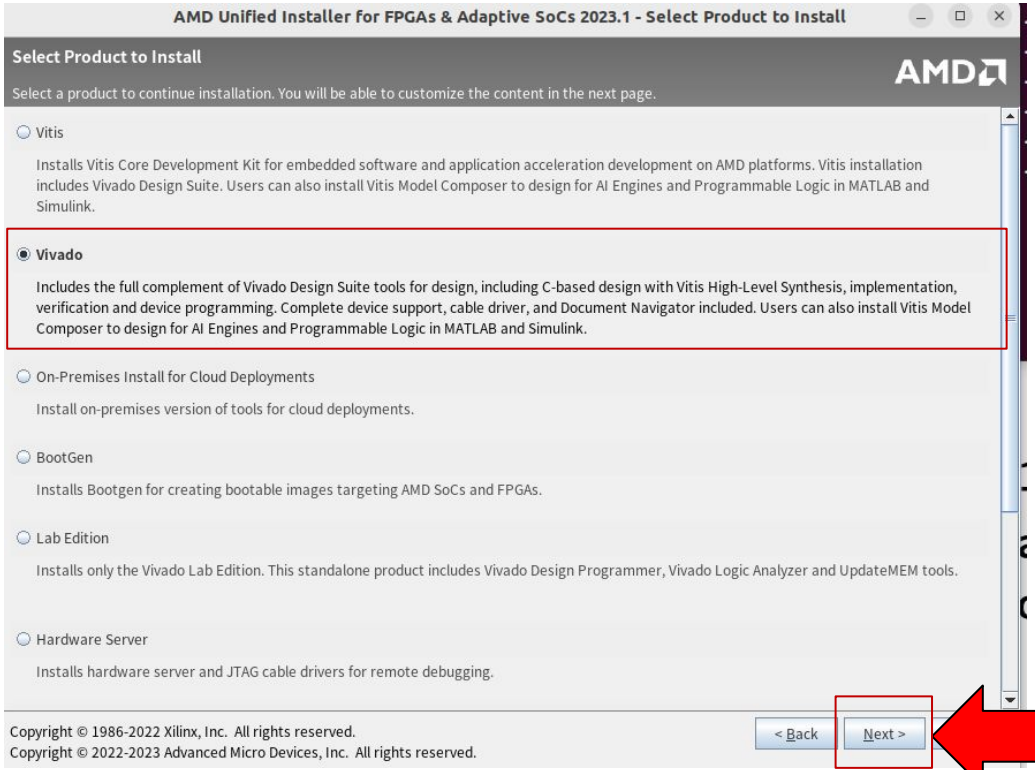
Use the email address and password used **when signing up**



Then, Click Next Button

Install Vivado (Linux / Windows)

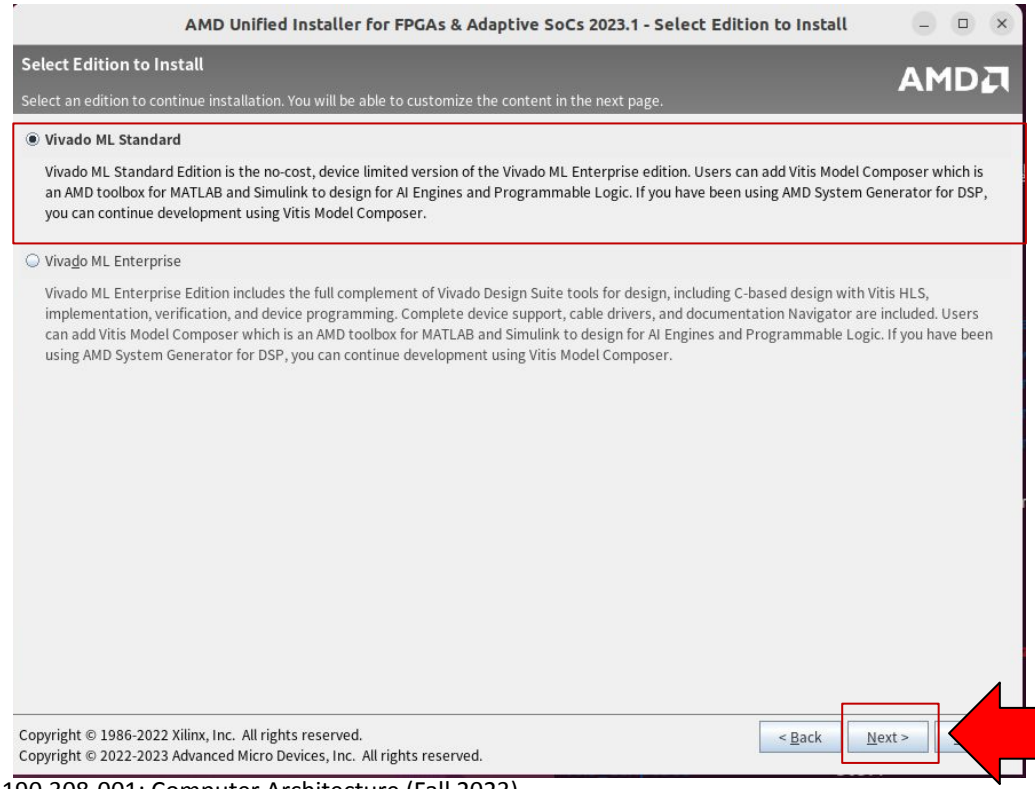
Select **vivado** as product to install



Then, Click Next Button

Install Vivado (Linux / Windows)

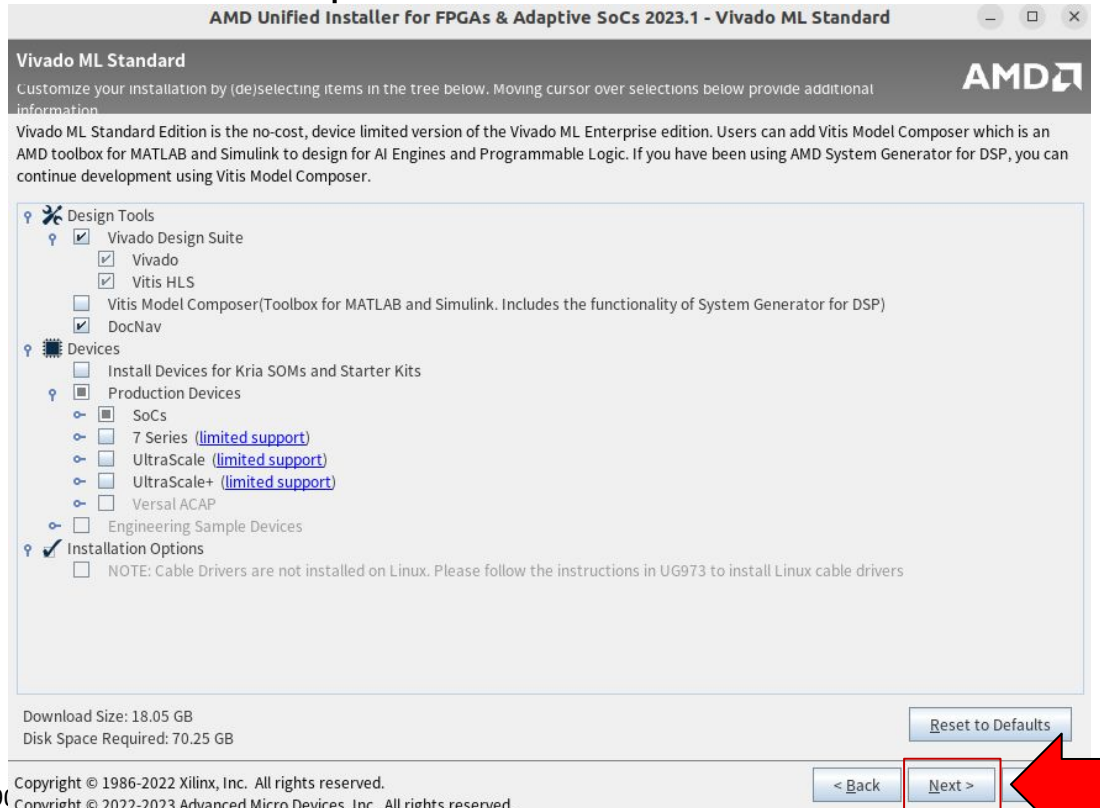
Select **vivado ML Standard** edition



Then, Click Next Button

Install Vivado (Linux / Windows)

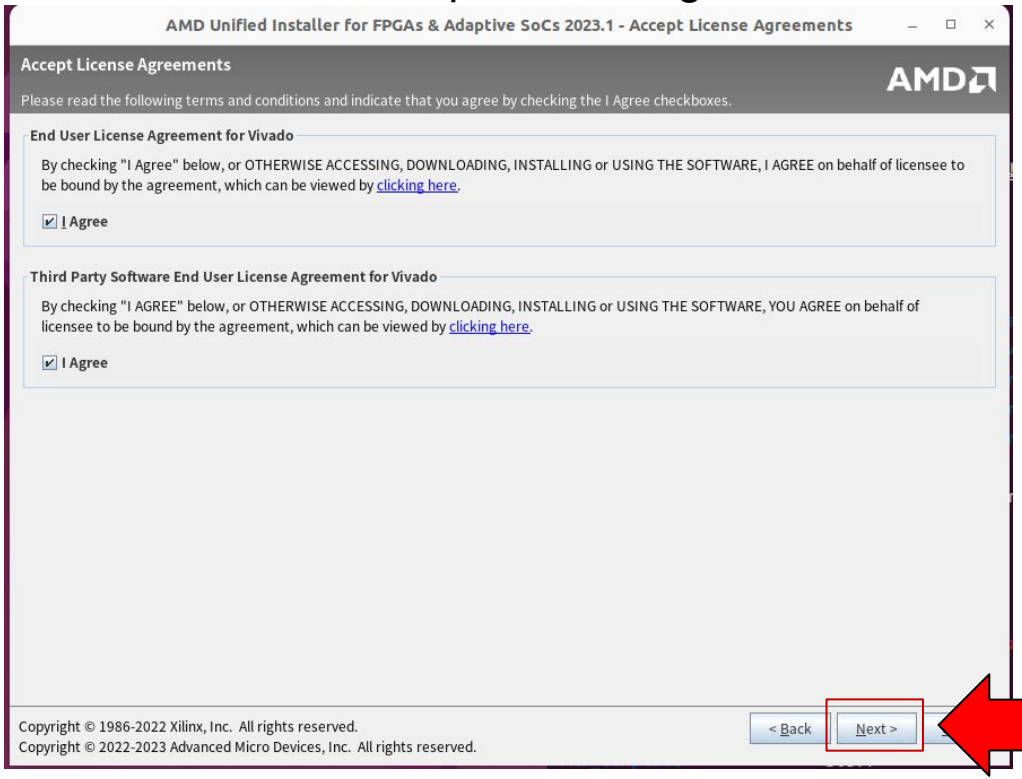
Select minimal option to install



Then, Click Next Button

Install Vivado (Linux / Windows)

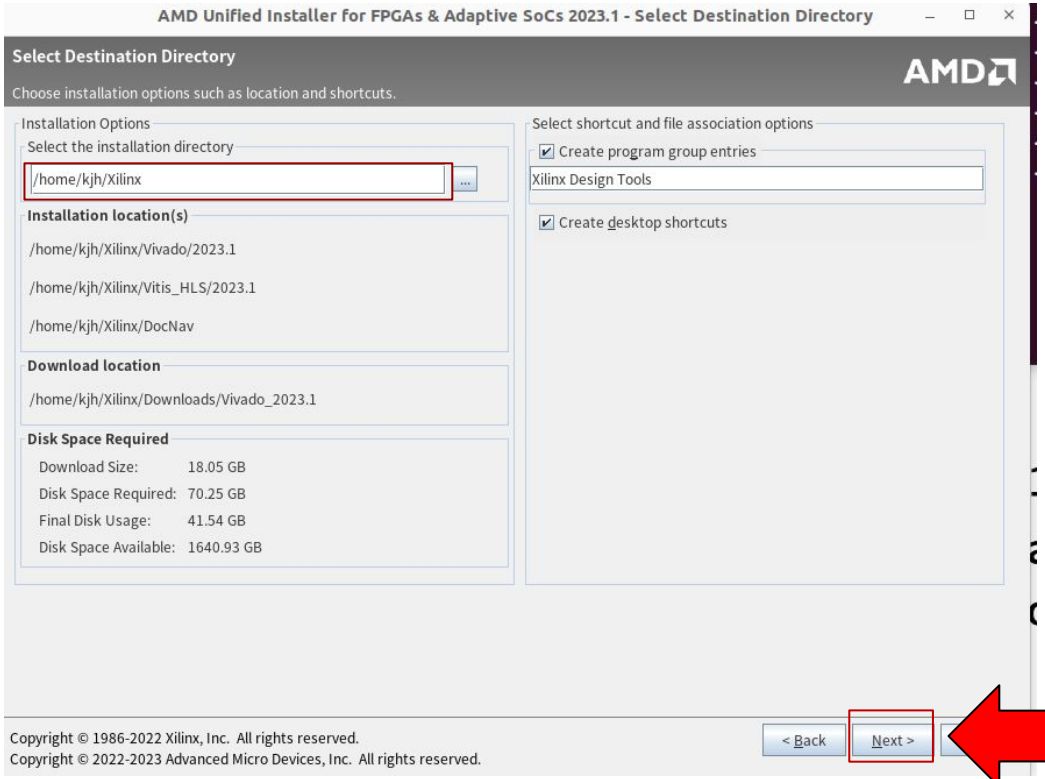
Please check for accept license agreements



Then, Click Next Button

Install Vivado (Linux / Windows)

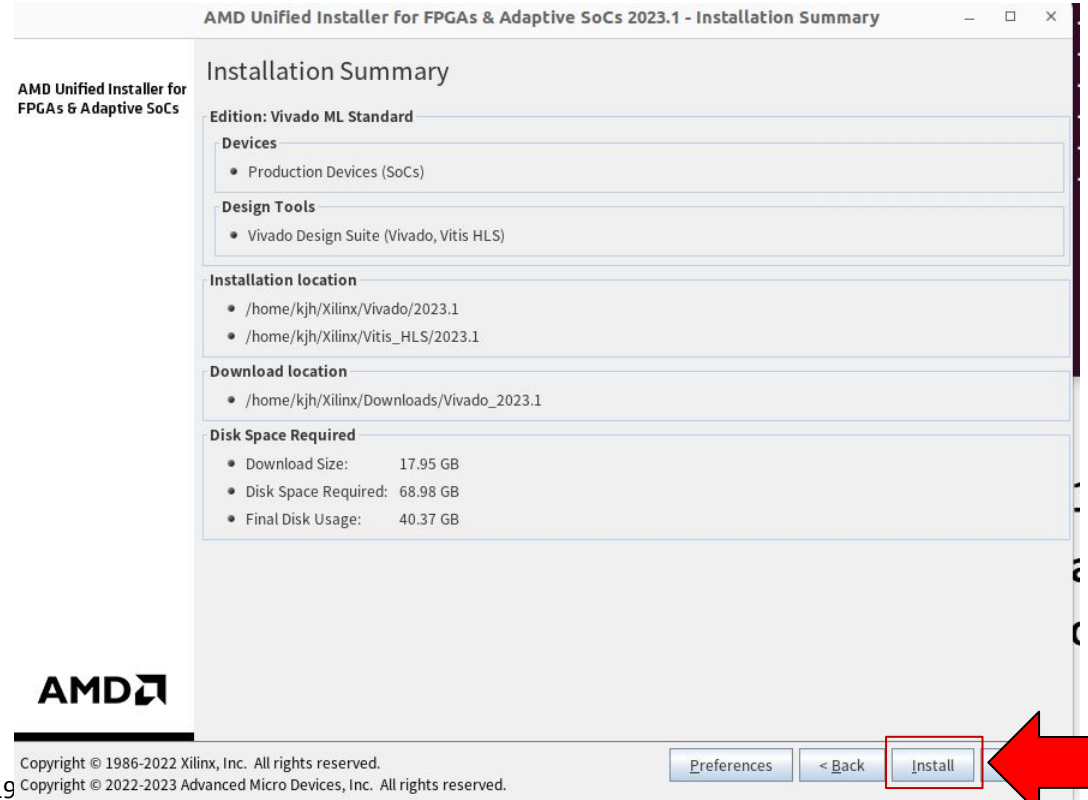
Recommend to change installation directory path.



Then, Click Next Button

Install Vivado (Linux / Windows)

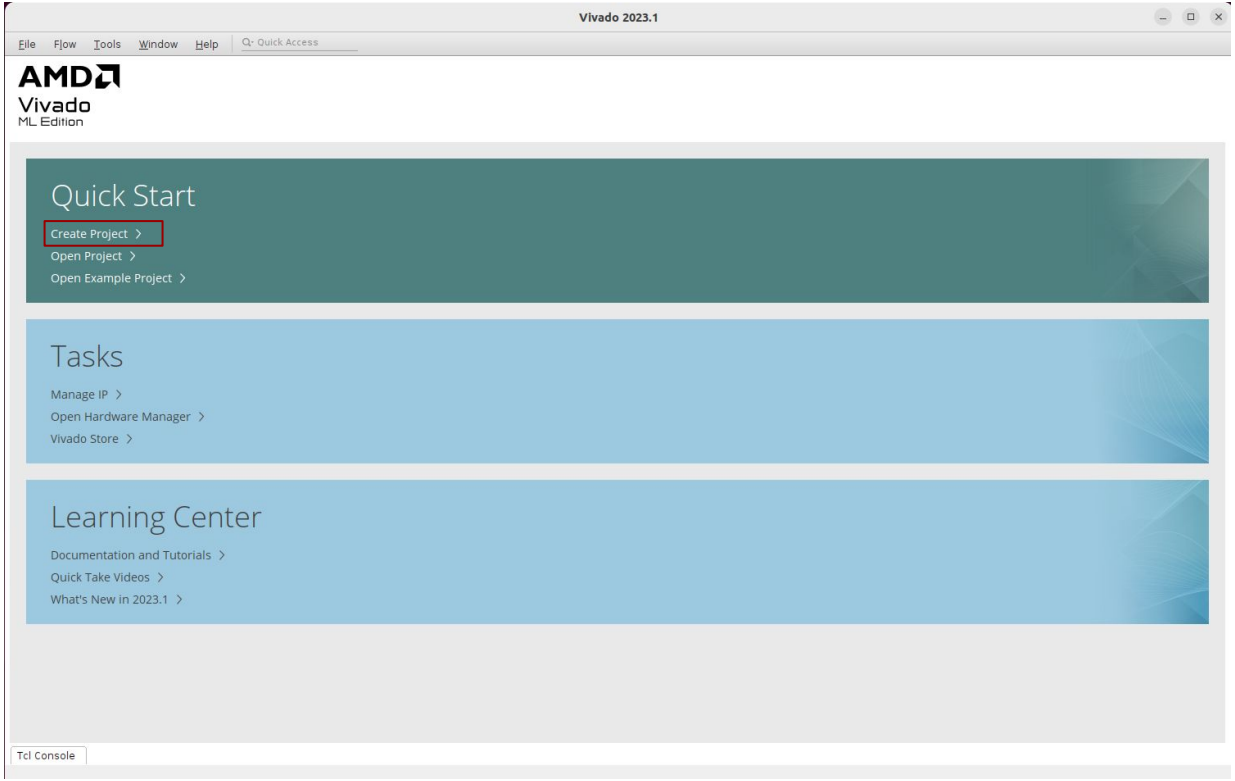
Please reserve required space for installation



Then, Click Install Button

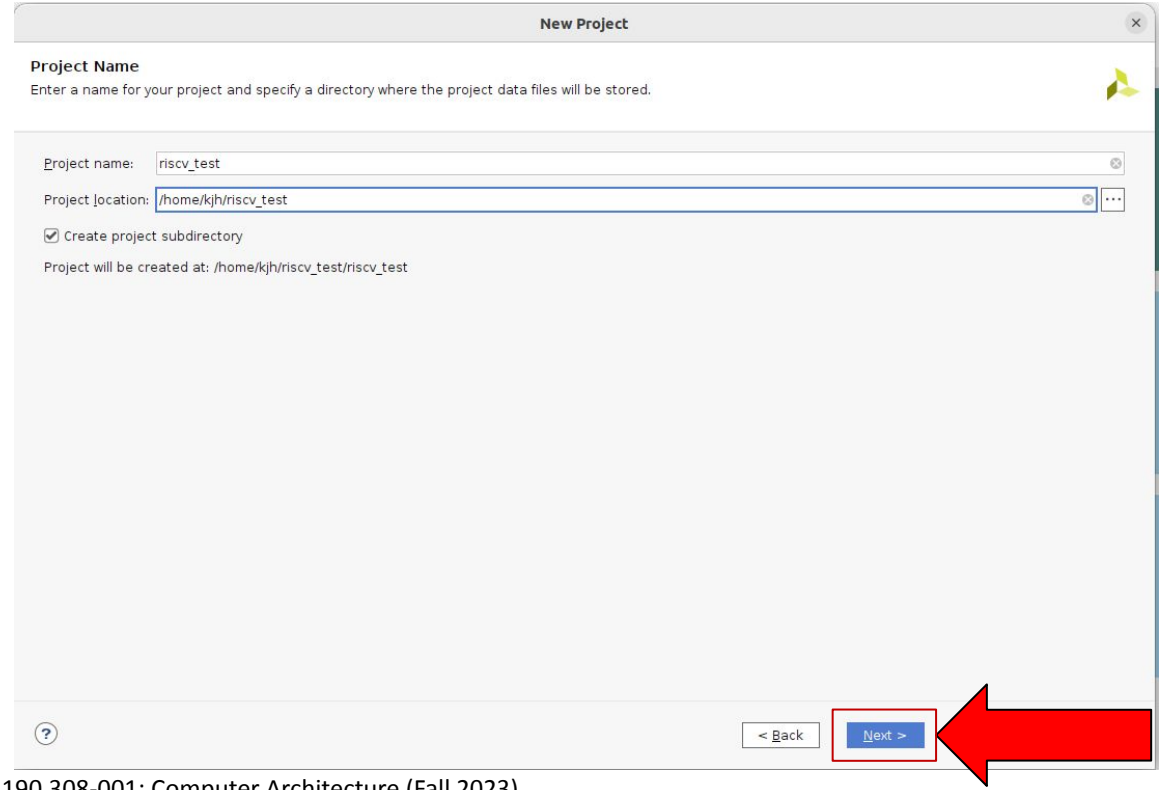
Create Project

Click Create Project



Create Project

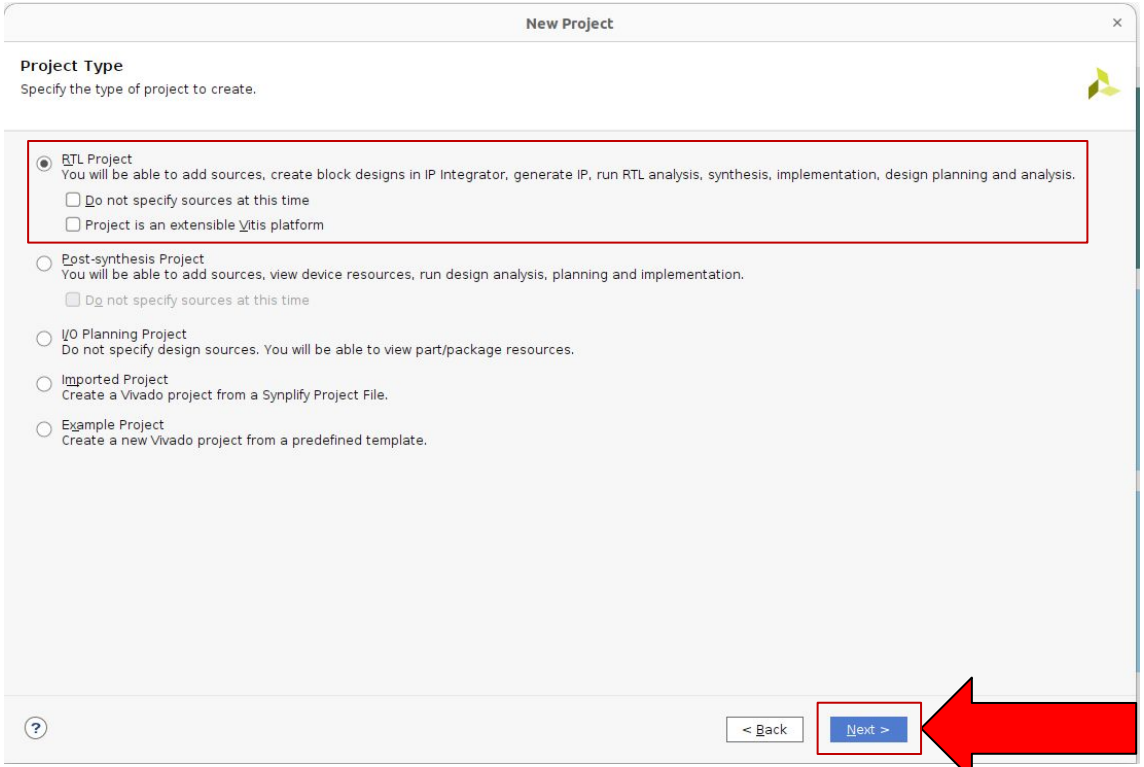
Enter your project name



Then, Click Next Button

Create Project

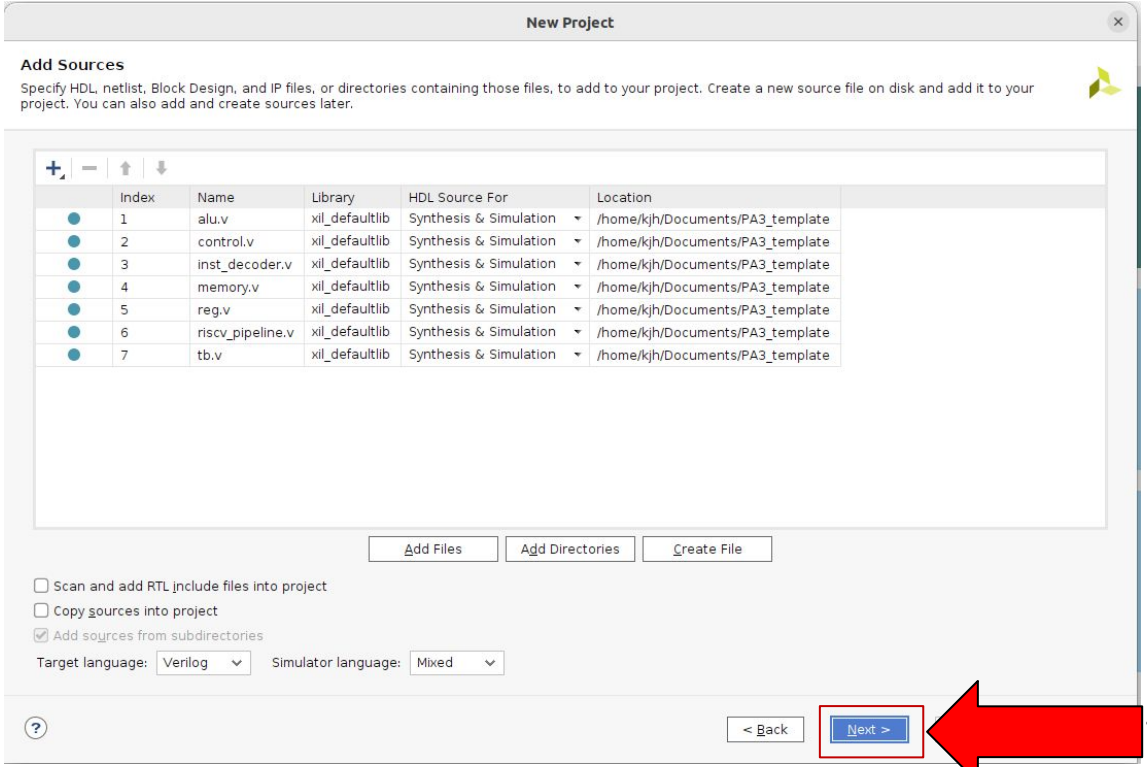
Select RTL Project Type



Then, Click Next Button

Create Project

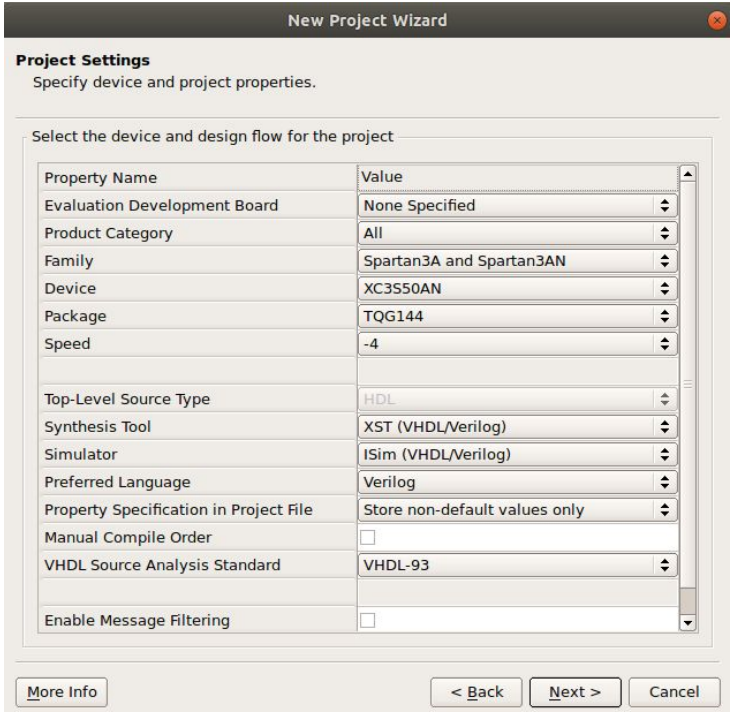
Add source files you need (You can add to the project after it's created)



Then, Click Next Button

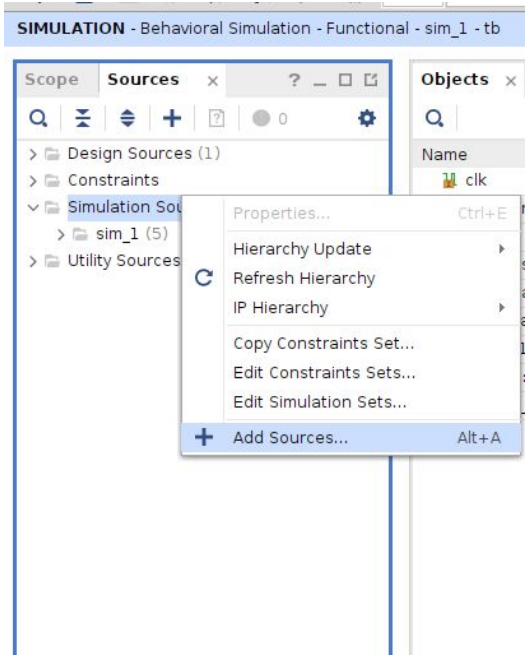
Create Project (Xilinx ISE)

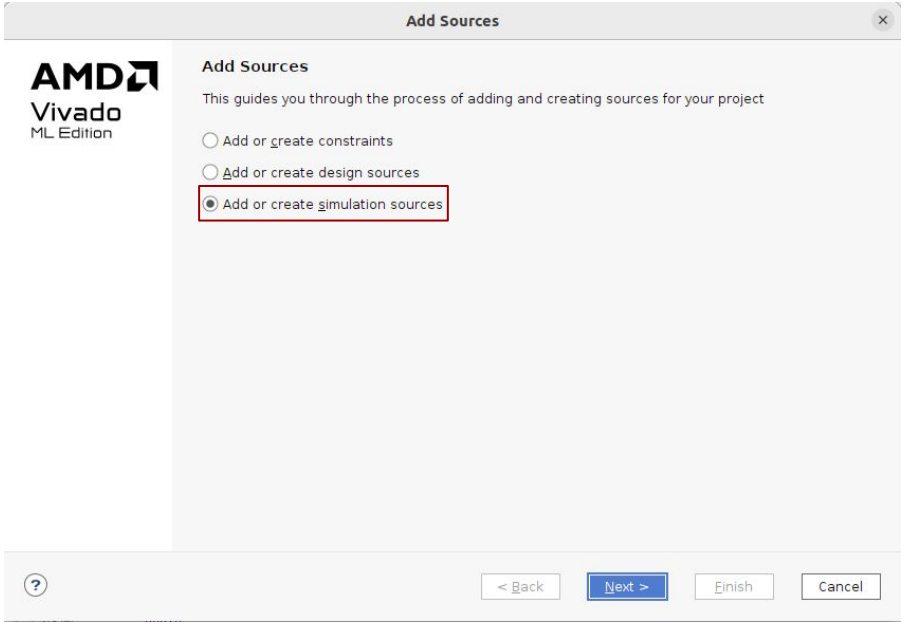
If you want to use Xilinx ISE Program, create project using the following method



Add Files to project

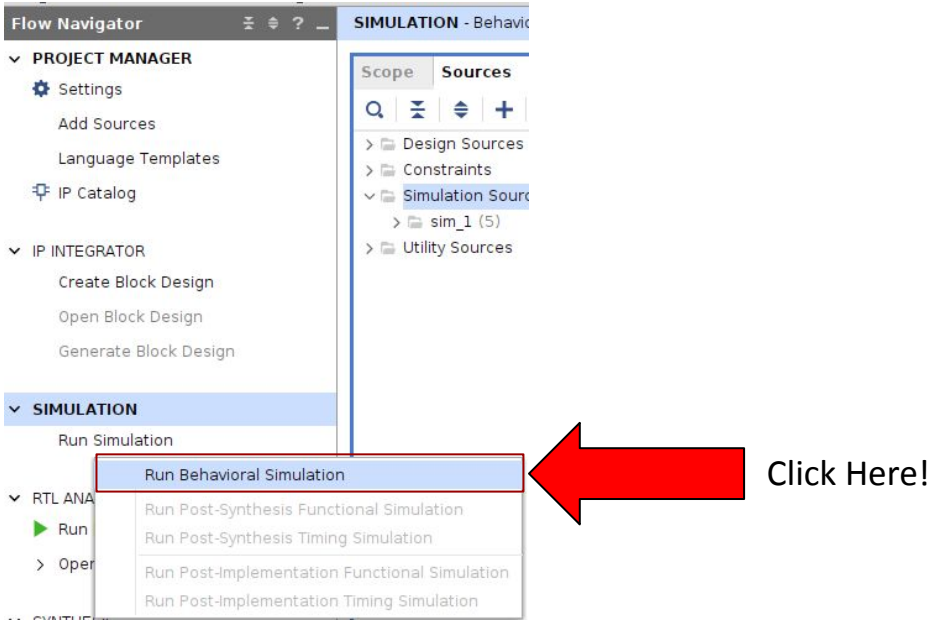
To access the provided sample data file, you need to add it to the project.





Running Simulation

Click Run Behavioral Simulation to start simulation



Click Here!

Running Simulation

You can check result via console and waveform