차세대 반도체 디지털 혁신공유대학 사업단

POLARIS

Vivado Installation Guide

AIX 2024

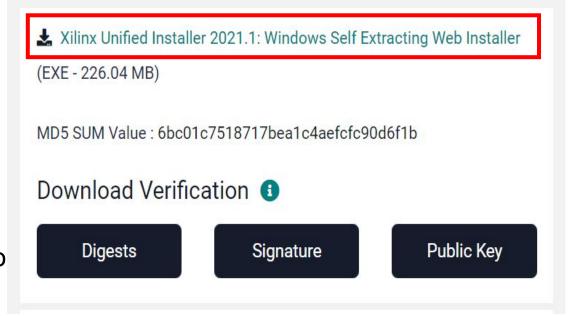


Xilinx Vivado Design Suite

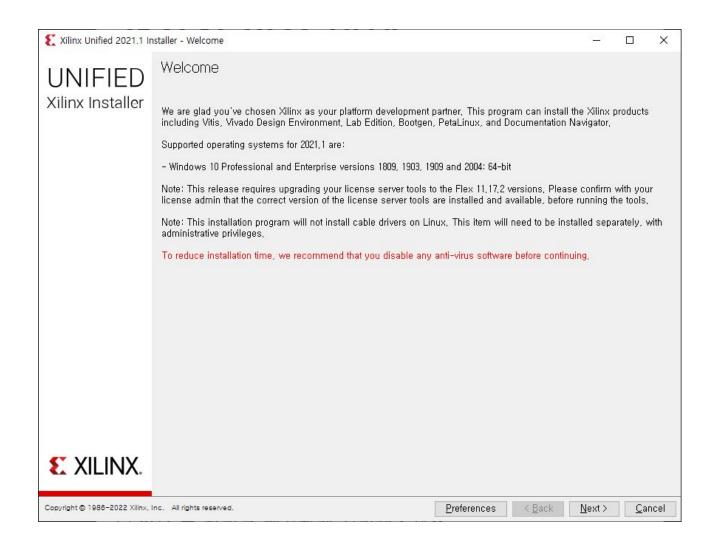
- Vivado is a tool we can use for writing, simulating and implementing Verilog HDL projects.
- This guide will explain how to install vivado, create a simple project and simulate it(windows)

<Download Vivado>

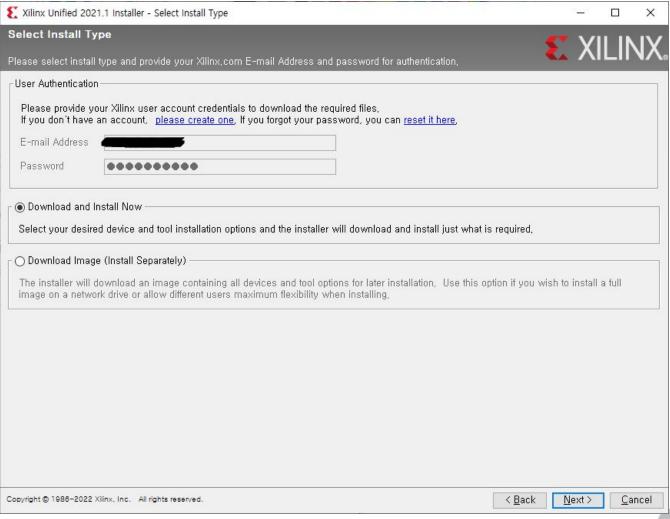
- Visit Xilinx website to download vivado
 - https://www.xilinx.com/support/download.html
- Here, select a version and download
- This tutorial will explain using 2021.1 version
- You have to create a Xilinx account to install Vivado



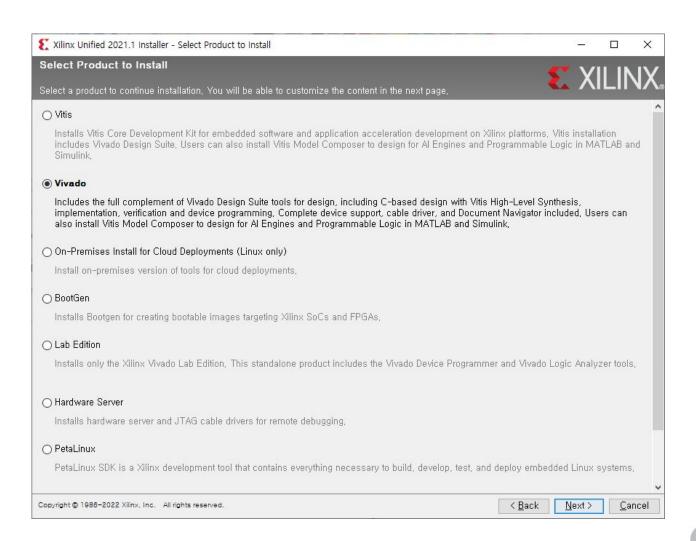
 After downloading, run the downloaded file



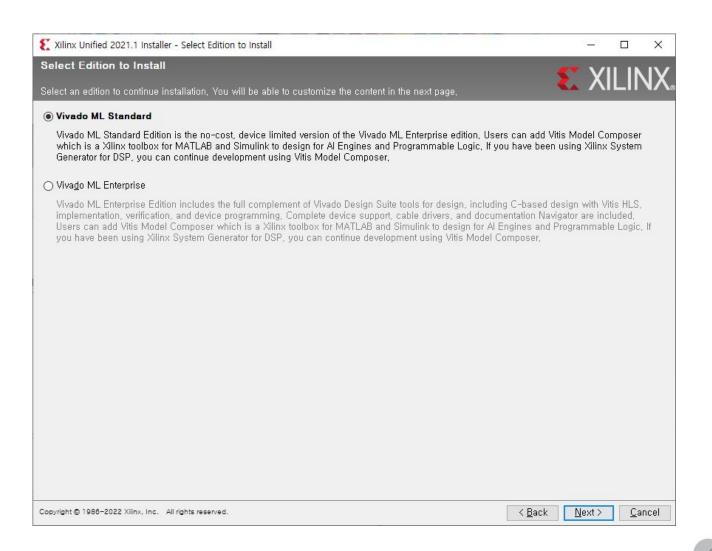
- Enter your Xilinx account
- Select download and install now
- Click next



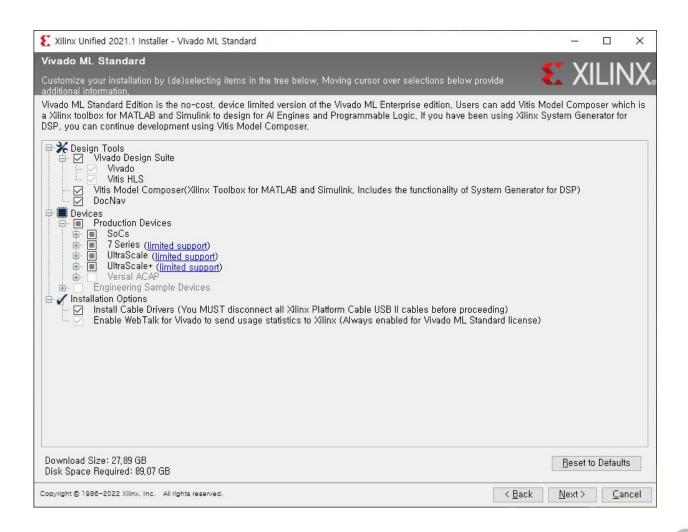
Select Vivado, click next



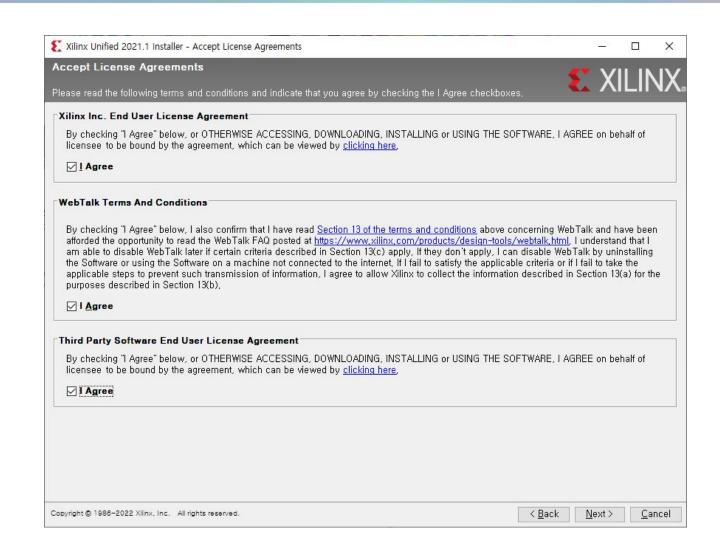
 Select Vivado ML Standard, click next



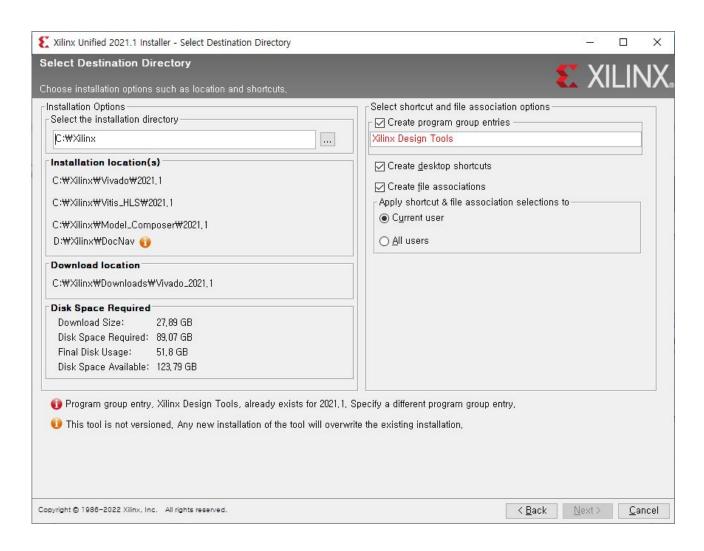
Click next



Select I agree, and click next

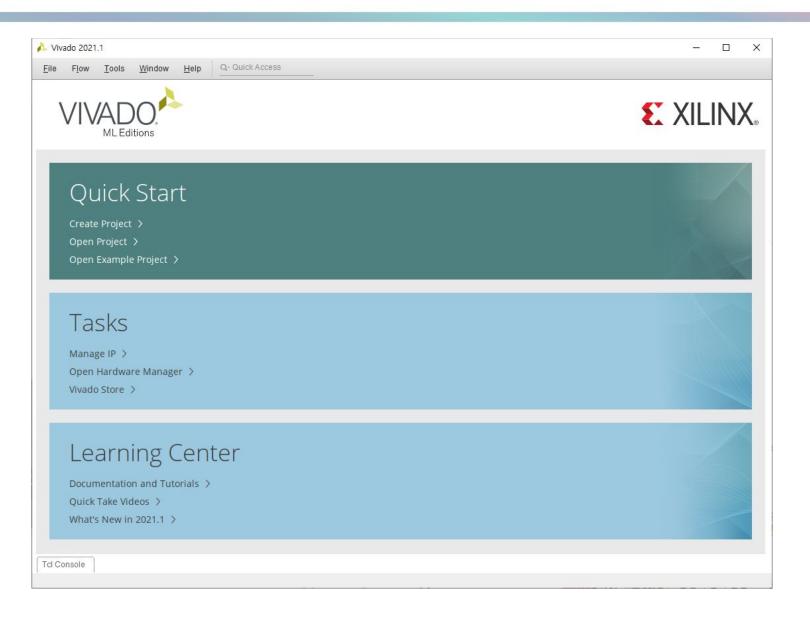


- Select installation directory, and click next
- After this, it will take quite long to finish installing

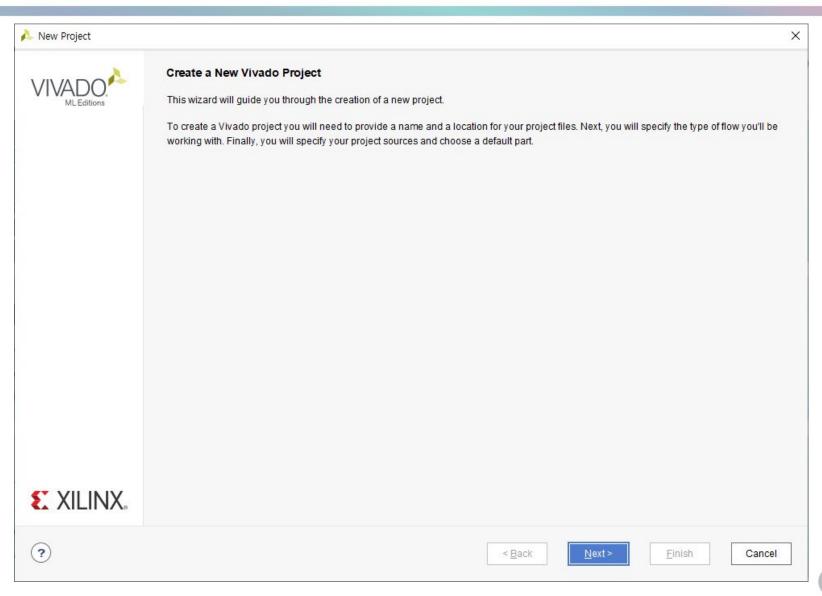


2. Create a new project

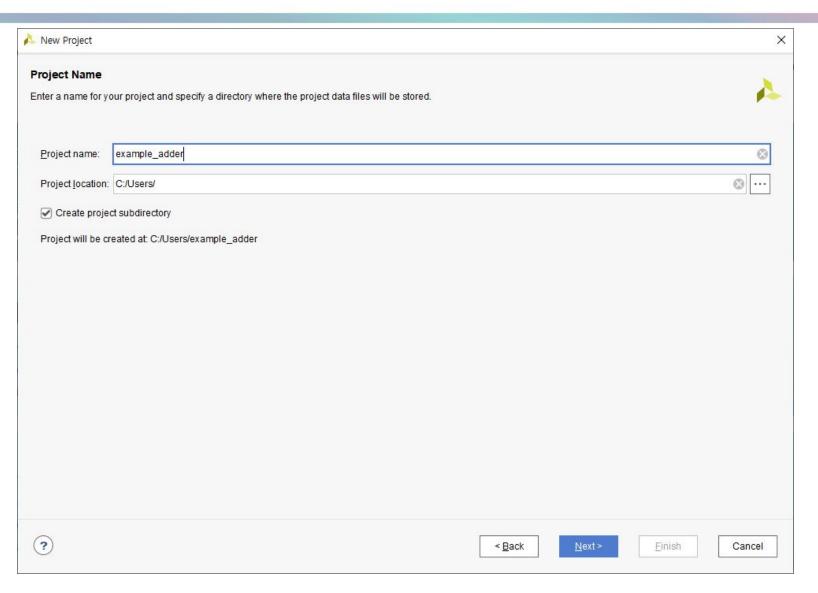
- Run Vivado
- Click Create Project



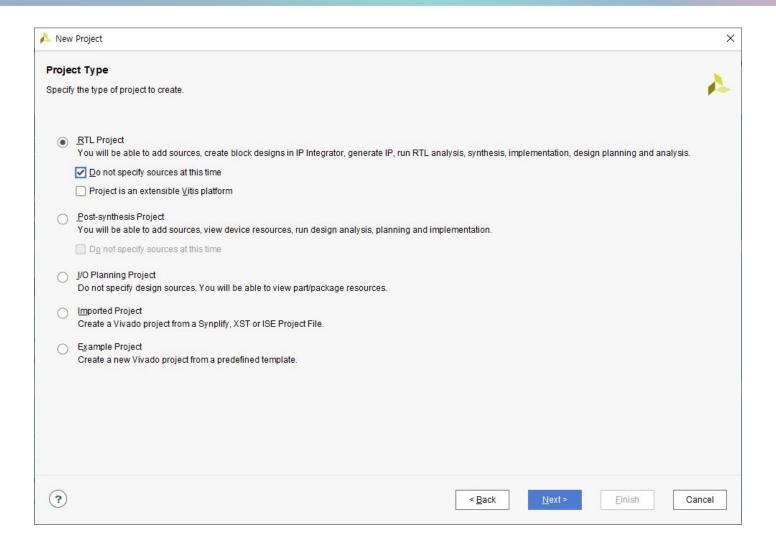
Click next



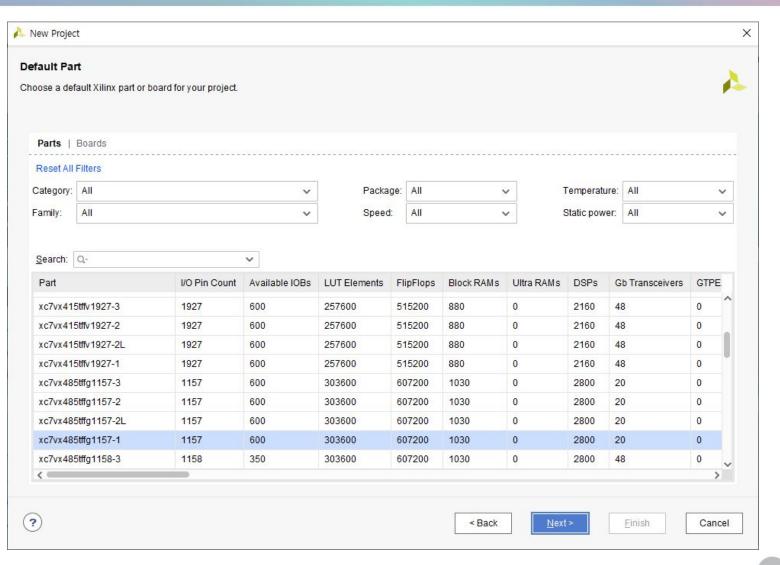
- Select project name and location
- Click next



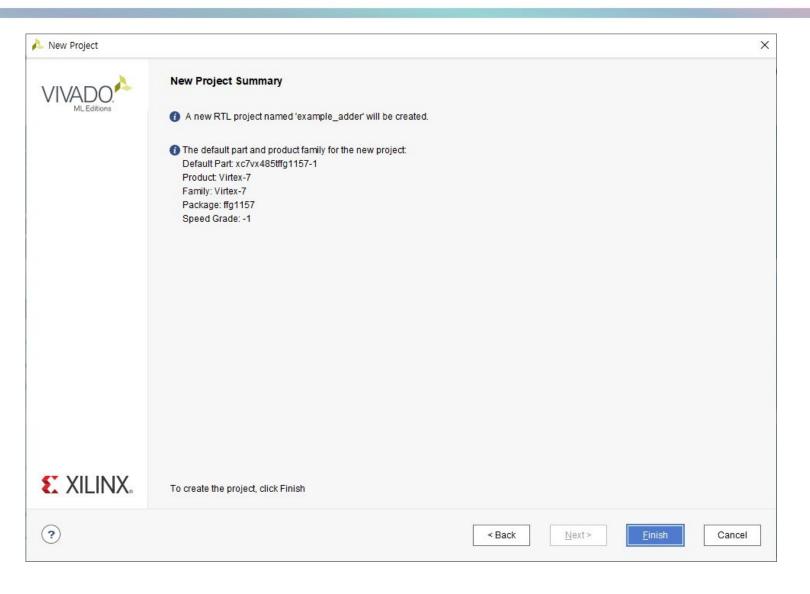
Click next



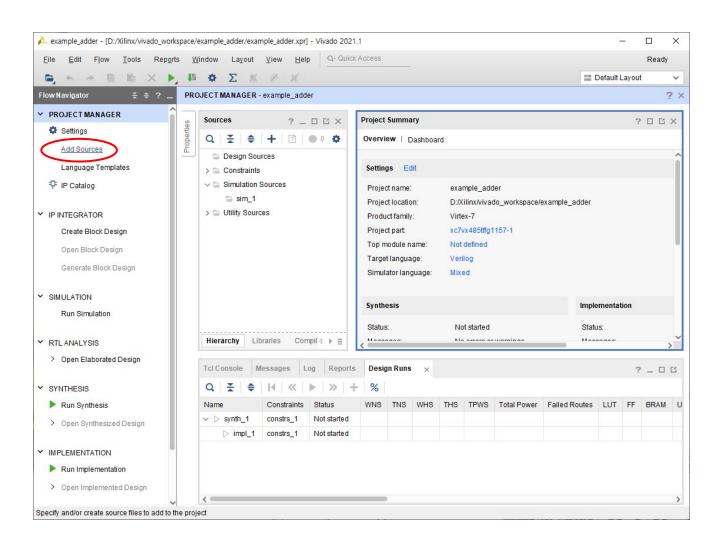
- This is board selection
- For now, we will only simulate the design.
- Click next



Click finish



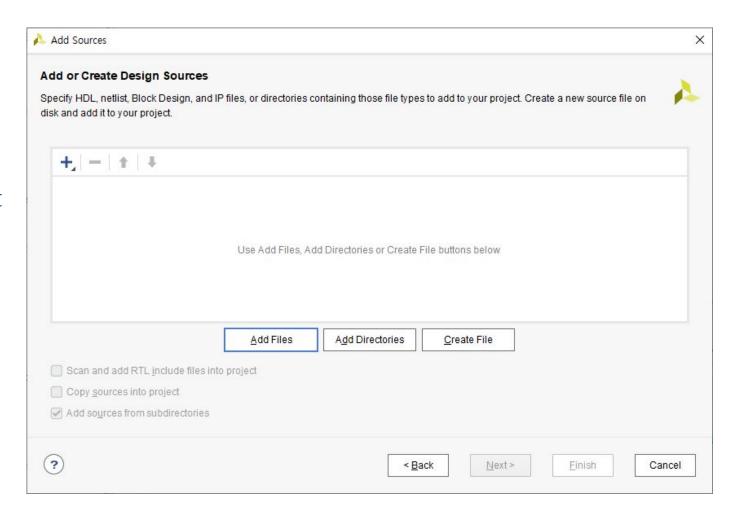
Click add sources



Select Add or create design sources



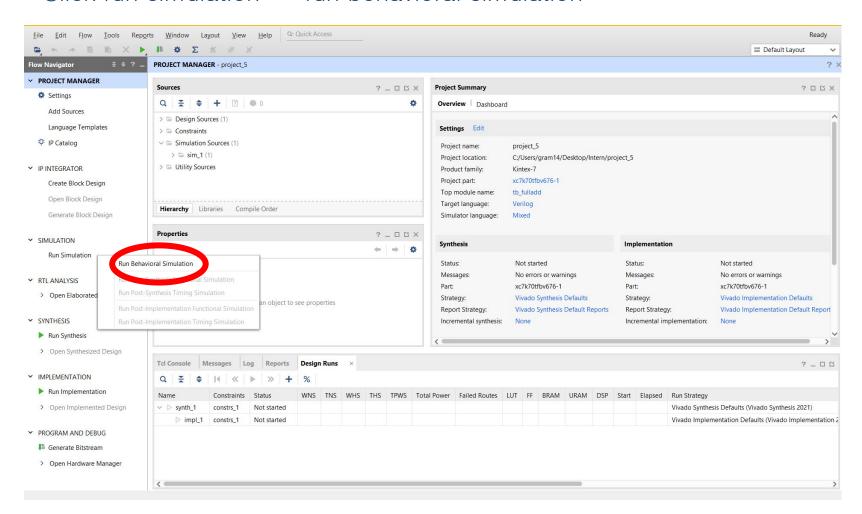
- Select Add Files
- Add the files(source code)
 - Ex)adder.v
 - Ex)adder_tb.v
- The example code is a simple 4-bit adder



3. Simulate the project

3. Simulation

- After adding the source files
- Click run simulation -> run behavioral simulation



3. Simulation

Check the simulation result

