Lab 0 – Vivado Installation

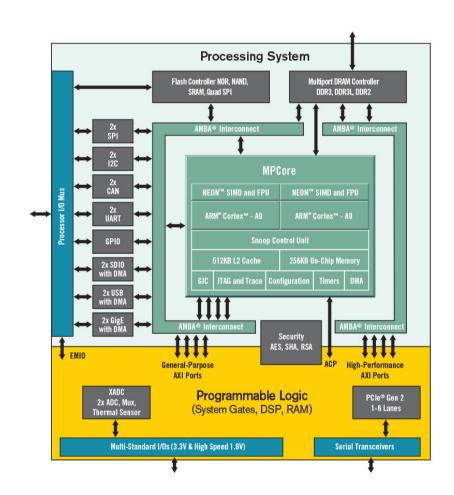
Instructor: Prof. Donghwa Shin

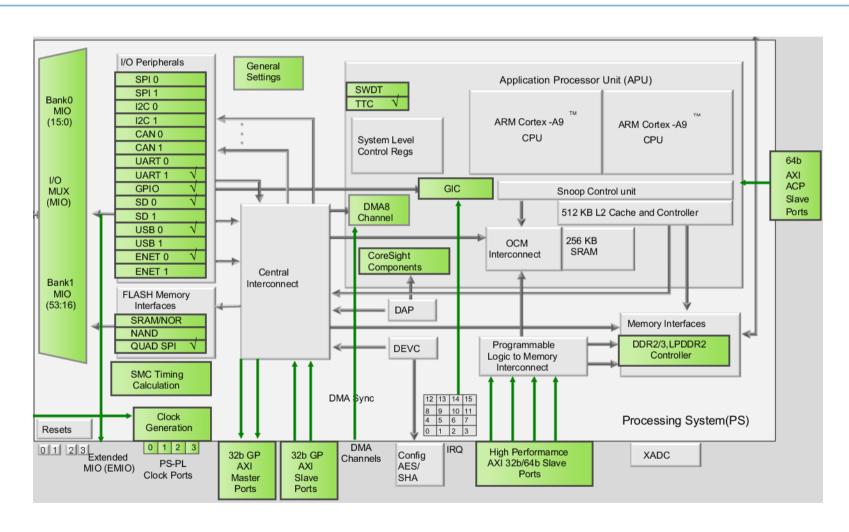
Lab's Objectives

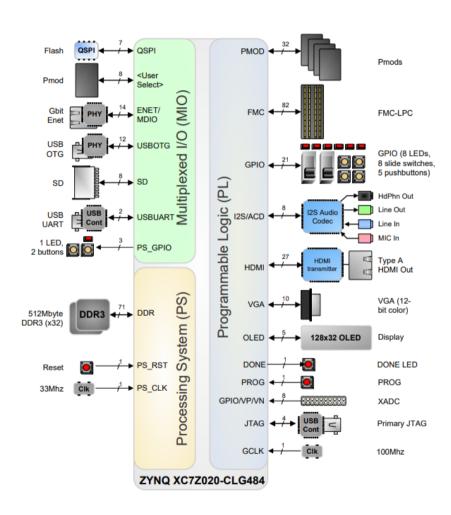
- ZYNQ Introduction
- ☐ Vivado Installation Step-by-Step

Zynq ARM Core Introduction

- Processing System (PS): dual Corex-A9 Processing System
- ☐ Caches: 32 KB Level 1 4-way set-associative instruction and data caches, 512 KB 8-way set-associative Level 2 cache
- **On-Chip Memory:** On-chip boot ROM, 256 KB on-chip RAM, Byte-parity support
- **Interconnection:** High-bandwidth connectivity within PS and between PS and PL, ARM AMBA® AXI based
- □ Programmable Logic (PL): 85000 Series-7 Programmable Logic Cells (FPGA)

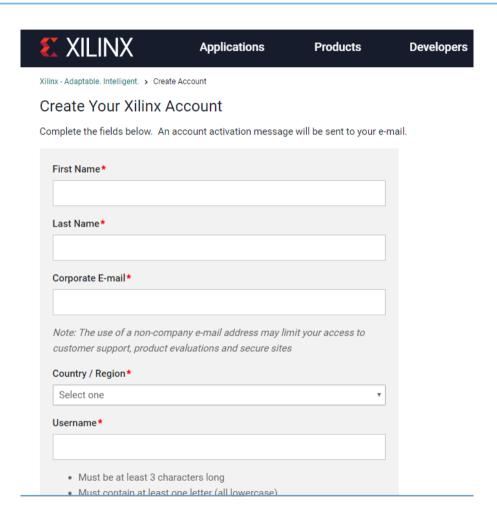






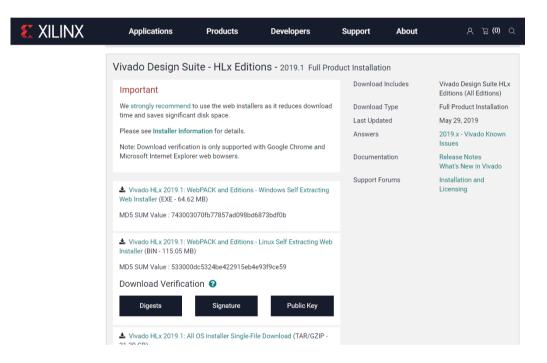
Create a new account at Xilinx

- URL: https://www.xilinx.com/registration/create-account.html
- Username must be at least 3 characters long and contain at least one letter
- Password is from 8 to 32 characters
- Password must contain at least 1 letter, 1 number and 1 special character(such as @,#,\$...)
- Check for the activation message from Xilinx in email's inbox (sometime in spam folder)



Download Vivado Design Suite

- Access Xilinx's download site at: https://www.xilinx.com/support/download.html
- Select "Vivado HLx 2019.1: WebPACK and Editions -Windows Self Extracting Web Installer"
- Website will redirect us to the information page



Download Vivado Design Suite

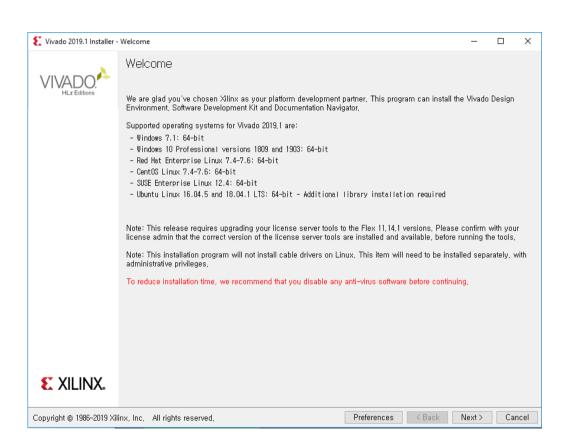
- Xilinx wants to collect some information from users
- Filling in the required information
- All information should be in English (or Latin alphabet)
- We can use the University's address to fill this form
- Finally, click on "Download" button

High Performance Computing

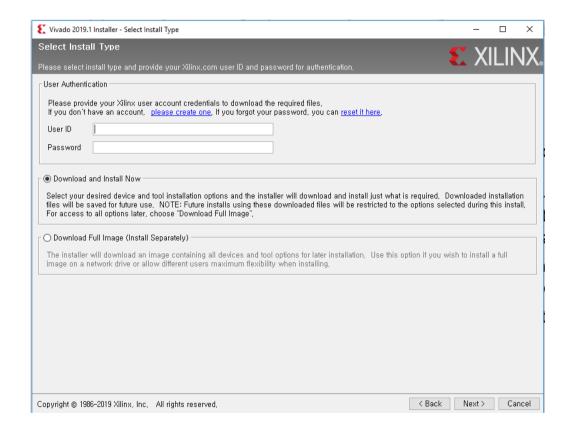
ownload Center - Name and Address Verifi	
U.S. Government Export Approval	
 U.S. export regulations require that your First Name, Last N request. <u>Please provide accurate and complete information</u> 	Name, Company Name and Shipping Address be verified before Xilinx can fulfill your download on.
Addresses with Post Office Boxes and names/addresses wexport compliance systems.	with Non-Roman Characters with accents such as grave, tilde or colon <u>are not supported</u> by US
First Name*	Last Name*
Your given name	Your Family name
Corporate E-mail*	
Your Email	
Company Name*	
Soongsil University	
Please enter your company's name, or "None" if not affiliated.	
Address 1*	
Soongsil University, 369 Sangdo-ro, Dongjak-gu, Seoul	
Address 2	State*
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Address 2 City* Seoul Country / Region* Korea, Republic Of Phone Your phone number	Seoul Please use 2-letter code for your US state or Canadian province. Zip Code*

For more information about how we process your personal information, please see our privacy policy

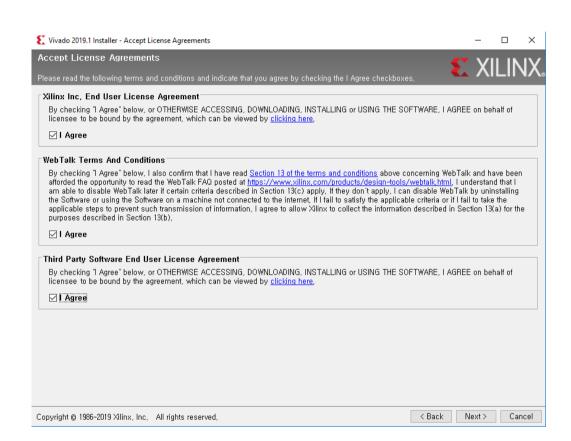
- Run file that was downloaded from Xilinx website
- Considering disable all anti-virus program during installing process
- ☐ Click "Next" to continue



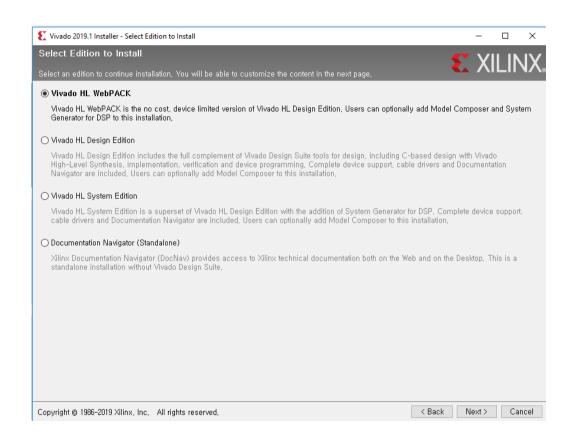
- Login with the account that you created in the previous step
- Select the option of "Download and Install Now"
- ☐ Click "Next" to continue



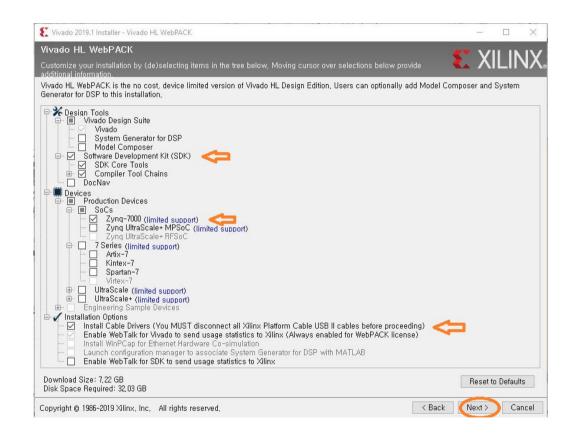
- Review the information again, then accept License Agreements
- ☐ Click "Next" to continue



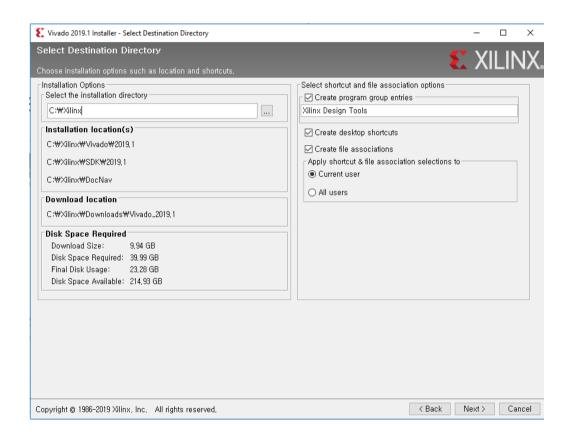
- Select the option "Vivado HL WebPACK"
- ☐ Click "Next" to continue



- ☐ Un-check all available option
- Only keep the options:
 - SDK
 - Zynq-7000
 - Install Cable Drivers
- ☐ Click "Next" to continue



- Keep the default installation directory and download location as illustrated figure
- ☐ Click "Next" to continue



☐ The Installer will download and install Vivado Design Suite and all related software automatically



☐ The installation often takes up to 2 hours to complete.

