EEE3050 Theory on Computer Architectures (Spring 2017)
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ModelSim Tutorial

2017.05.11
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Installation

- Linux: ModelSim-Altera Starter edition for linux
Installation on Windows
Installation on Windows

- Right after the installation, you can visit this page
  - Fill the form to get the student license of ModelSim
  - This page below should be accessed by link of installation process
Installation on Windows

- After completing the form, you can get the email from Mentor Graphics
  - Save the attached file with the name “student_license.dat” to the top level installation directory composition
  - Detail information is in email contents
When you run the ModelSim, the following window comes.

Click [File] -> [New] -> [Project for new project file].
Create the project

- You can write project name and select location.
- Project location should consist of “English” path (Don’t use c:/바탕화면/).
- Check the [Reference Library Mappings].
Create the project

- Add Existing File: Add all existing files we gave.
- Check the [Reference from current location].
- You should select files we give to add to project.
Create the project

- You can see the files added to the project in the workspace window.
Create the project

- You should copy test data files in the created project path.
Compile

- After modifying the files, save and compile all files in project. (Compile All)
Compile

- You can see status change (?) -> (V), when compile is successful.
Compile

- Compile Fail: Error message in transcript and status change (X)
Simulate

- If there is no compile error, run simulation.
- Select [Simulate] -> [Start Simulation]
- Select [+work] -> [test_bench]
Simulate

- You can see this window.
Waveform

- You can see wave window.
- Drag ‘dut’ to gray box.
Run simulation and you can see waveform.
Simulate

- You can see this window.
Run