Lab Manual: Introduction to Cocotb

This lab manual introduces python-based simulator – cocotb, which is used for testing datapath-intensive RTL designs.

Installation

- For installing cocotb,
    - Follow the installation guide.
    - Remember to check the prerequisites versions on your machine if they are already installed, especially for simulators.
    - Make sure the path to these is included in PATH variable in bashrc file.
- For using cocotb in a virtual environment on your machine, follow the instructions mentioned here.

Usage

- Quickstart guide
- Step by step guide

Exercise

- Test your sequential Booth Multiplier using cocotb.
- Design and test restoring division circuit using cocotb.

Further resources

- Basics to advanced [Writing testbenches in python] [YoutubePlaylist]