

Project Objective

Web-browser
based VCD
waveform
viewer

Krupa Bathia
Apurv Mittal
Rakesh K K

- To create a **web-browser based VCD waveform viewer** with basic functionalities
 - Displaying the hierarchy
 - Selecting the signals to be plotted
 - Viewing the signal transitions
 - Zoom in/out
 - Measuring the time difference between the transitions
- Integrate the waveform viewer to Google Chrome
- Wishlist
 - Integrate the waveform viewer with all the prominent browsers
 - Load two or more VCDs to compare the waveforms

Project Outline - Tools/Packages and Technology Stack Used

Web-browser
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- Python 2.7.x
- SVG (Scalable vector Graphics) file format
- Python packages: svgwrite, PyGTK
- Google app engine

Outline of work completed

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- A class is defined for VCD file parsing
- Class has functions for
 - Listing the signals with the hierarchy information
 - Extracting the transitions of the signals and then saving in a dictionary
 - Given two timestamps and a signal list, all the transitions of each signal in the list between the timestamps are returned
 - Listing the values of the signals at a particular time instant
- Frontend of the project: started with Google app builder

Outline of the work to be done

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- Representing data in SVG format
- Integrating the SVG file in the app using python
- To make the GUI and integrate it with the browser

