

Logic Simulator

User Guide

To load graphical user interface (GUI),
change directory into the folder
gf2_python and run the *logsim.py* program
using the command:

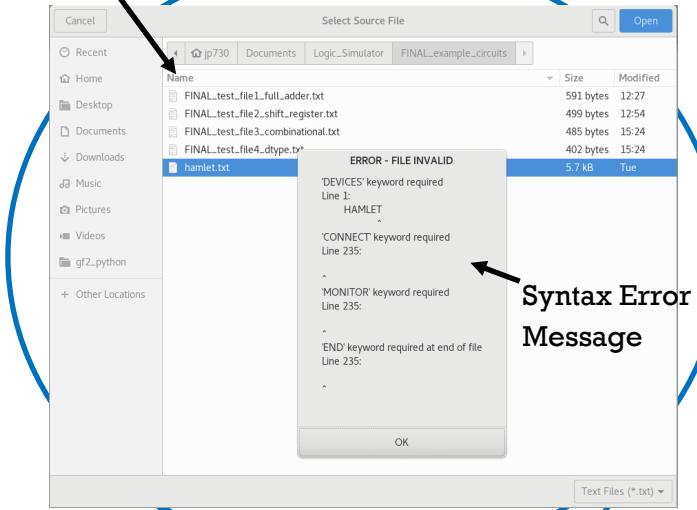
```
python logsim.py (def file location)
```

The location of a definition file is optional
and the GUI will be preloaded with the
file if the argument is given.

Performing Circuit Simulation:

- 1 If not preloaded, then click browse button and select your desired '.txt' definition file.
- 2 Add/Remove points in the circuit at which the trace will be recorded on the canvas by the simulator.
- 3 Select the desired initial state of the switches in the circuit (this will not appear if no switches exist)
- 4 Enter the number of cycles for which the circuit should be simulated and click the run button.
- 5 The trace for each monitoring point will be displayed on the canvas. Pressing the continue button will continue simulating each trace for the specified clock cycles (max 100 per run/continue).

File Selector Dialog



Name of
monitoring point
and trace

N.B. Initial states of
clocks and dtypes
are randomised

Time axis

Notification Bar



Cycles: 10

Run Continue Exit

Monitor Points

SELECT Add

xor2 Remove

or1 Remove

switch1 Remove

switch2 Remove

switch3 Remove

xor1 Remove

Switch Values:

switch1 Off

switch2 On

switch3 Off

Control Buttons
and Cycles
Selector

Current Monitor
Points and
Scrollbar

Current Switch
States