ELEC 374 – Digital Systems Engineering

Lab 1 Report

Divaydeep Singh, 20143859

Lucas Austin, 20061953

ALU

Text

Description automatically generated with medium confidence

Graphical user interface, application

Description automatically generated

BUS

Application

Description automatically generated with medium confidence

BUS Encoder

Table

Description automatically generated

BUS Multiplexer

Graphical user interface, text, application

Description automatically generated

General Register

Graphical user interface, text, application

Description automatically generated

DataPath

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated with medium confidence

Datapath Testbench

Graphical user interface

Description automatically generated with low confidence

Graphical user interface, table

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

A picture containing table

Description automatically generated

MDR register

Graphical user interface, application

Description automatically generated

Multiplication Algorithm

Text

Description automatically generated with medium confidence

PC Reg

Graphical user interface, application

Description automatically generated

Rotate Register

Table

Description automatically generated

Table

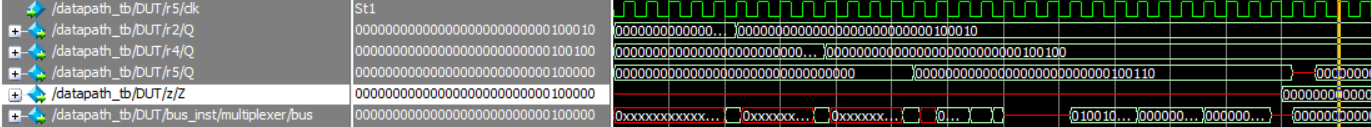
Description automatically generated with medium confidence

Z\_Register

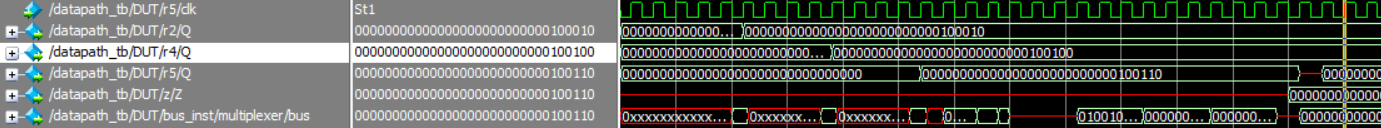
Graphical user interface, application

Description automatically generated

Waveform Part 3a



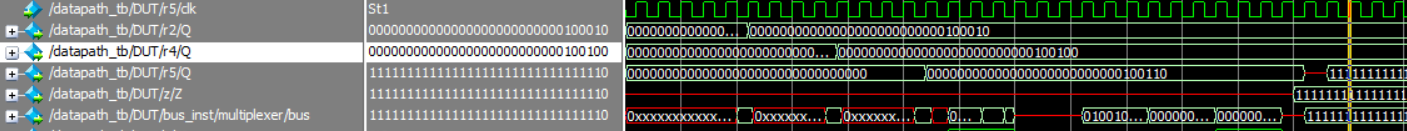
Waveform Part 3b



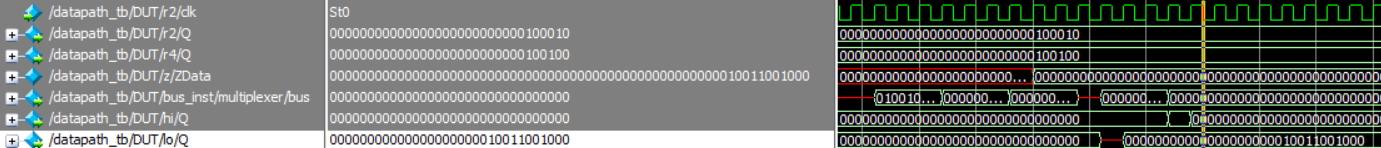
Waveform Part 3c



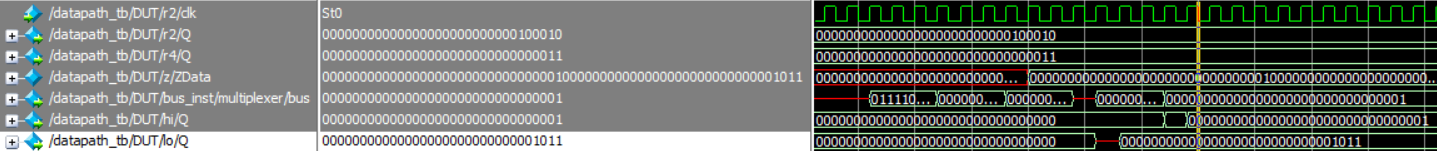
Waveform Part 3d



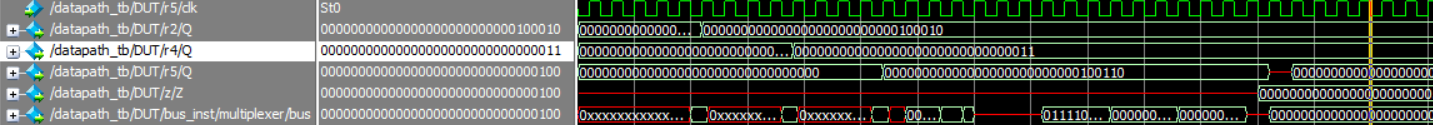
Waveform Part 3e



Waveform Part 3f



Waveform Part 3g



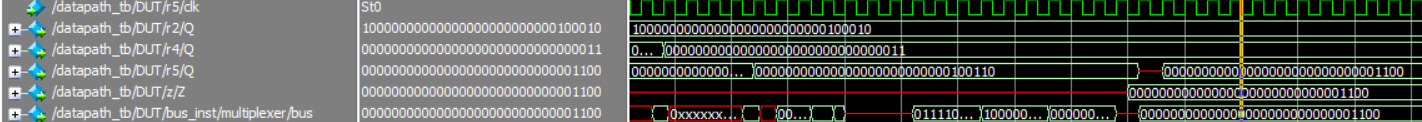
Waveform Part 3h



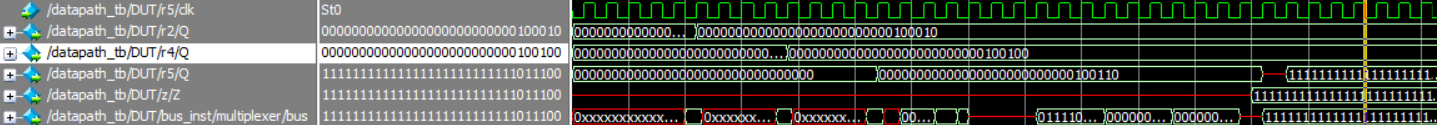
Waveform Part 3i



Waveform Part 3j



Waveform Part 3k



Waveform Part 3l

