Reese Ford

Lab 01

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Test Case	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2	Verification Time (ns)	10	20	30	40	50	52	60	64	74	79	85	87	90	100
3	rst	0	0	0	0	0	0	0	1	0	0	1	1	0	0
4	d	0	527	-8	3771334343958392850	77	4	18	18	981	981	981	345	345	345
5	er_q	0	527	-8	3771334343958392850	77		77	18	0	0	981	0	0	345
6	d update time	0	10	20	30	40	50	52		69			87		
7	rst update time								63	69		80		89	

Figure 1: Expected Results Table (I know it's the old one, but the bolded row (eq_r) is the same)
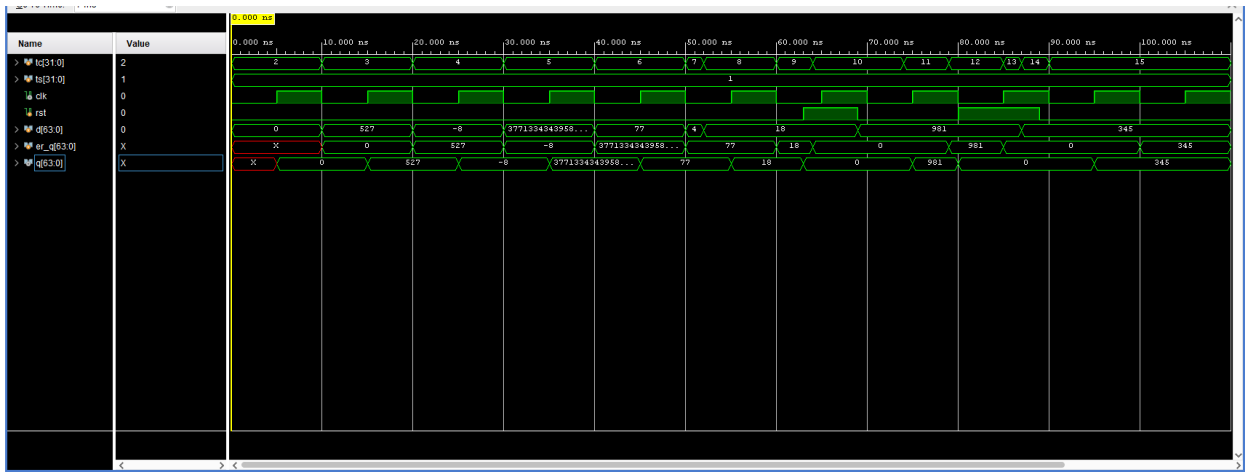

Figure 2: Simulation Waveform

******* BEGIN TEST RESULTS *******

Test Case 1

Inputs: rst = 0 | d = 0

+++ Step 1: Pass: |q| time = 10 ns | er = 0 | ar = 0 | er_bits = 64 | ar_bits = 64 +++

Test Case 2

Inputs: rst = 0 | d = 527

+++ Step 1: Pass: |q| time = 20 ns | er = 527 | ar = 527 | er_bits = 64 | ar_bits = 64 +++

Test Case 3

Inputs: rst = 0 | d = -8

+++ Step 1: Pass: |q| time = 30 ns | er = -8 | ar = -8 | er_bits = 64 | ar_bits = 64 +++

Test Case 4

Inputs: rst = 0 | d = 3771334343958392850

+++ Step 1: Pass: |q| time = 40 ns | er = 3456789abcdef012 | ar = 3456789abcdef012 | er_bits = 64 | ar_bits = 64 +++

Test Case 5

Inputs: rst = 0 | d = 77

+++ Step 1: Pass: |q| time = 50 ns | er = 77 | ar = 77 | er_bits = 64 | ar_bits = 64 +++

Test Case 6

Inputs: rst = 0 | d = 4

+++ Step 1: Pass: |q| time = 52 ns | er = 77 | ar = 77 | er_bits = 64 | ar_bits = 64 +++

Test Case 7

Inputs: rst = 0 | d = 18

+++ Step 1: Pass: |q| time = 60 ns | er = 18 | ar = 18 | er_bits = 64 | ar_bits = 64 +++

Test Case 8

Inputs: rst = 1 | d = 18

+++ Step 1: Pass: |q| time = 64 ns | er = 0 | ar = 0 | er_bits = 64 | ar_bits = 64 +++

Test Case 9

Inputs: rst = 0 | d = 981

+++ Step 1: Pass: |q| time = 74 ns | er = 0 | ar = 0 | er_bits = 64 | ar_bits = 64 +++

Test Case 10

Inputs: rst = 0 | d = 981

+++ Step 1: Pass: |q| time = 79 ns | er = 981 | ar = 981 | er_bits = 64 | ar_bits = 64 +++

Test Case 11

Inputs: rst = 1 | d = 981

+++ Step 1: Pass: |q| time = 85 ns | er = 0 | ar = 0 | er_bits = 64 | ar_bits = 64 +++

Test Case 12

Inputs: rst = 1 | d = 345

+++ Step 1: Pass: |q| time = 87 ns | er = 0 | ar = 0 | er_bits = 64 | ar_bits = 64 +++

Test Case 13

Inputs: rst = 0 | d = 345

+++ Step 1: Pass: |q| time = 90 ns | er = 0 | ar = 0 | er_bits = 64 | ar_bits = 64 +++

Test Case 14

Inputs: rst = 0 | d = 345

+++ Step 1: Pass: |q| time = 100 ns | er = 345 | ar = 345 | er_bits = 64 | ar_bits = 64 +++

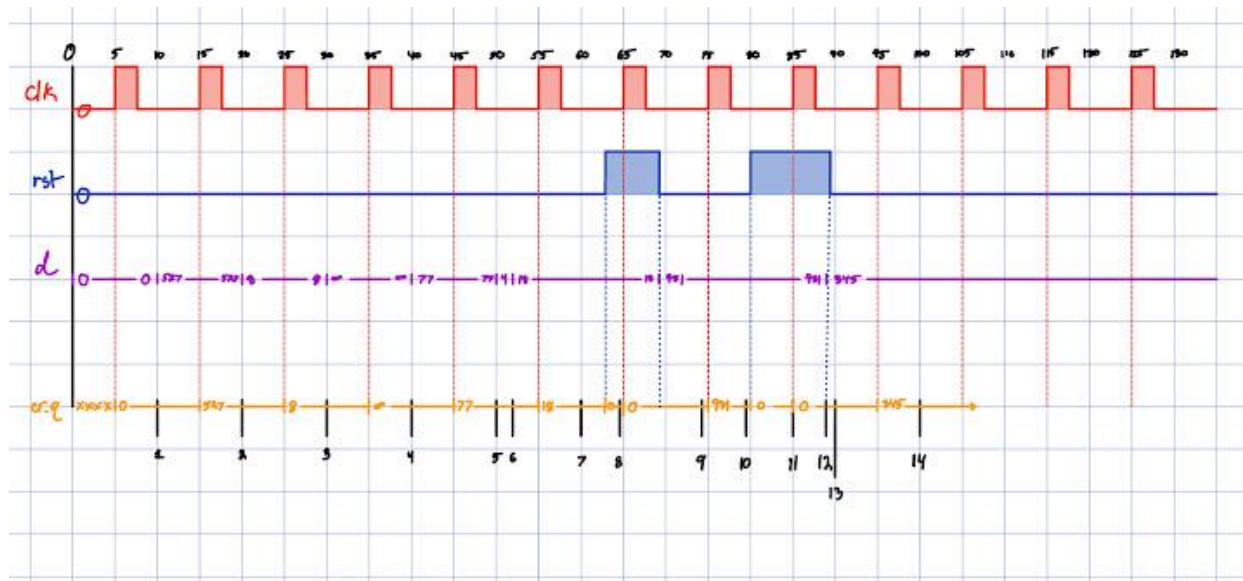Pass Count = 14

Fail Count = 0

******* END TEST RESULTS *******

Figure 3: Worked-Out Waveform (just in case ;))