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Lab 01

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

Figure 1: Expected Results Table

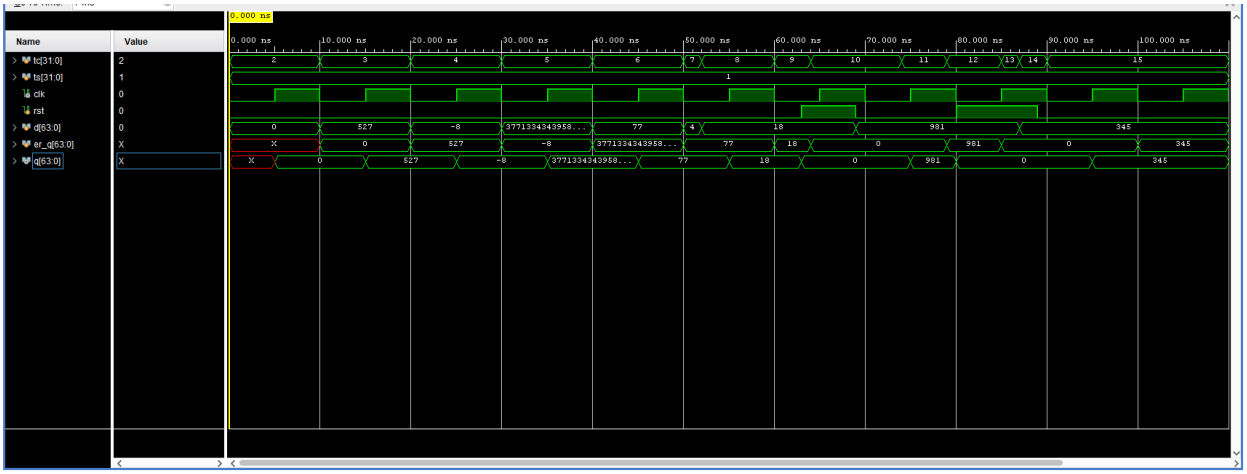

Figure 2: Simulation Waveform

******* 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 *******

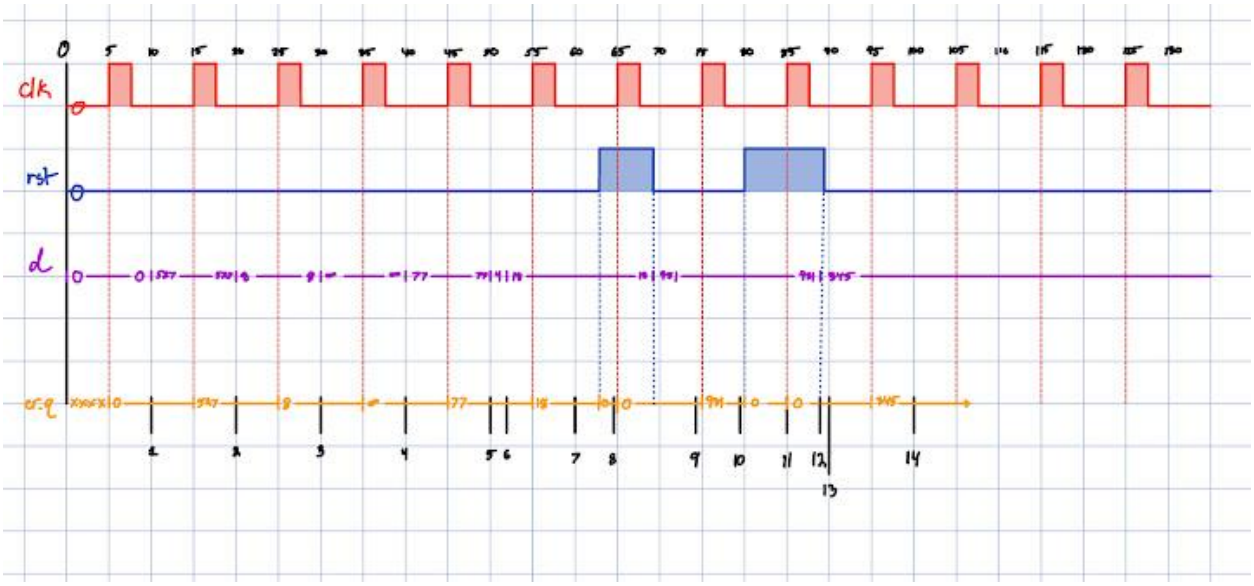

Figure 3: Worked-Out Waveform (just in case ;))