Reese Ford

Lab 01

В	С	D	E	F	G	Н	1	J	K	L	M	N	0
1	2	3	4	5	6	7	8	9	10	11	12	13	14
10	20	30	40	50	52	60	64	74	79	85	87	90	100
0	0	0	0	0	0	0	1	0	0	1	1	0	0
0	527	-8	3771334343958392850	77	4	18	18	981	981	981	345	345	345
0	527	-8	3771334343958392850	77	77	18	0	0	981	0	0	0	345
0	10	20	30	40	50	52		69			87		
							63	69		80		89	
	10 0 0 0 0	0 0 0 527	0 0 0 0 527 -8	0 0 0 0 0 0 527 -8 3771334343958392850 0 527 -8 3771334343958392850	0 0 0 0 0 0 0 0 527 -8 3771334343958392850 77 0 527 -8 3771334343958392850 77	1 2 3 4 5 6 10 20 30 40 50 52 0 0 0 0 0 0 0 0 527 -8 3771334343958392850 77 4 0 527 -8 3771334343958392850 77 77	1 2 3 4 5 6 7 10 20 30 40 50 52 60 0 0 0 0 0 0 0 0 0 527 -8 3771334343958392850 77 4 18 0 527 -8 3771334343958392850 77 77 18	1 2 3 4 5 6 7 8 10 20 30 40 50 52 60 64 0 0 0 0 0 0 0 0 1 0 527 -8 3771334343958392850 77 4 18 18 0 527 -8 3771334343958392850 77 77 18 0 0 10 20 30 40 50 52	1 2 3 4 5 6 7 8 9 10 20 30 40 50 52 60 64 74 0 0 0 0 0 0 0 1 0 0 527 -8 3771334343958392850 77 4 18 18 981 0 527 -8 3771334343958392850 77 77 18 0 0 0 10 20 30 40 50 52 69	1 2 3 4 5 6 7 8 9 10 10 20 30 40 50 52 60 64 74 79 0 0 0 0 0 0 0 1 0 0 0 527 -8 3771334343958392850 77 4 18 18 981 981 0 527 -8 3771334343958392850 77 77 18 0 0 981 0 10 20 30 40 50 52 69	1 2 3 4 5 6 7 8 9 10 11 10 20 30 40 50 52 60 64 74 79 85 0 0 0 0 0 0 0 1 0 0 1 0 527 -8 3771334343958392850 77 77 18 0 0 981 9 0 527 -8 3771334343958392850 77 77 18 0 0 981 0 0 10 20 30 40 50 52 69 69	1 2 3 4 5 6 7 8 9 10 11 12 10 20 30 40 50 52 60 64 74 79 85 87 0 0 0 0 0 0 0 1 0 0 1 1 0 527 -8 3771334343958392850 77 77 18 0 0 981 981 345 0 10 20 330 40 50 52 69 87	1 2 3 4 5 6 7 8 9 10 11 12 13 10 20 30 40 50 52 60 64 74 79 85 87 90 0 0 0 0 0 0 1 0 0 1 1 0 0 527 -8 3771334343958392850 77 4 18 18 981 981 981 345 345 0 527 -8 3771334343958392850 77 77 18 0 0 981 0

Figure 1: Expected Results Table

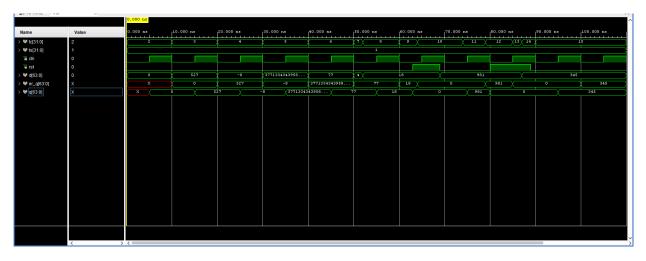


Figure 2: Simulation Waveform

****** 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

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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 \mid 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 \mid 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 \mid 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 ******