

	X		Y	
	X=0	X=1	X=0	X=1
000	50	51	0	0
001	52	51	0	0
010	50	53	0	0
011	52	54	0	0
100	52	55	0	0
101	52	51	1	0

X			Y	
	X		Y	
	X=0	X=1	X=0	X=1
000	000	001	0	0
001	010	001	0	0
010	000	011	0	0
011	010	100	0	0
100	010	101	0	0
101	010	001	1	0

000	000	010	010
010	xxx	xxx	010
101	xxx	xxx	001
001	011	100	001

P_1 : Z_2
 Z_1
 x

0	0	0	0
0	x	x	0
1	x	x	0
0	0	1	0

z_1

	0	0	1	1
1	1	x	y	1
0	0	x	x	0
0	0	1	0	0

x

λ_3 : $2L$

	0	0	0	0
	0	x	x	0
λ_1	1	x	x	1
λ_2	1	0	0	1

Y:

22

23

0	0	0	0
0	x	x	1
0	x	0	0
0	0	0	0

21

x

$\triangleright: x \cdot z_1 \cdot z_3 + z_2 \cdot z_3 \cdot x$

$$D_2: z_1 \cdot !x + !x \cdot z_3 + x \cdot z_2 \cdot !z_3$$

$$D_3: x \cdot !z_2 + x \cdot z_2 \cdot !z_3$$

Y: $!x \cdot z_1 \cdot z_3 = [(x \uparrow) \uparrow z_1 \uparrow z_3] \uparrow [(x \uparrow) \uparrow z_1 \uparrow z_3]$

$\triangleright: x \cdot z_1 \cdot !z_3 + z_2 \cdot z_3 \cdot x$

$$D_2: z_1 \cdot !x + !x \cdot z_3 + x \cdot z_2 \cdot !z_3$$

$$D_3: x \cdot !z_2 + y \cdot z_2 \cdot !z_3$$

Y: $!x \cdot z_1 \cdot z_3 = [(x \uparrow) \uparrow z_1 \uparrow z_3] \uparrow [(x \uparrow) \uparrow z_1 \uparrow z_3]$

J: z_2

z_1

x

0	0	0	0
x	x	x	x
y	x	x	x
0	0	1	0

K_1 : z_2

	x	x	x	x
z_1	x	x	x	x
x	1	x	x	1
	0	x	x	1
	x	x	x	x

$$\sqrt{1}: x \cdot z_2 \cdot z_3 \Rightarrow (x \uparrow z_2 \uparrow z_3) \uparrow (x \uparrow z_2 \uparrow z_3)$$

$$K_1: z_1 \cdot !x \cdot !z_3 + z_1 \cdot z_3 \Rightarrow [z_1 \uparrow (x \uparrow) \uparrow (z_3 \uparrow)] \uparrow [z_1 \uparrow z_3]$$

$$\downarrow_2 \quad z_1 \cdot !x \cdot !z_3 + !x \cdot z_3 \Rightarrow [\underbrace{z_1 \uparrow (x \uparrow) \uparrow (z_3 \uparrow)}] \uparrow [\underbrace{(x \uparrow) \uparrow z_3}]$$

$$k_2: z_2 \cdot !z_3 \cdot !x + y \cdot z_2 \cdot z_3 \Rightarrow [z_2 \uparrow (z_3 \uparrow) \uparrow (x \uparrow)] \uparrow [x \uparrow z_2 \uparrow z_3]$$

$\downarrow z_1$

z_2

0	x	x	1
1	x	x	1
0	x	x	0
0	x	x	0

K_2 :

	Z_2	Z_3	
	Z_2		
Z_1	X	1	0
X	Y	X	Y
	X	X	X
	X	0	1

$$\sqrt{3}: X \cdot \frac{1}{\sqrt{3}} \Rightarrow [\underbrace{X \uparrow (\frac{1}{\sqrt{3}} \uparrow)}] \uparrow [\underbrace{X \uparrow (\frac{1}{\sqrt{3}} \uparrow)}]$$

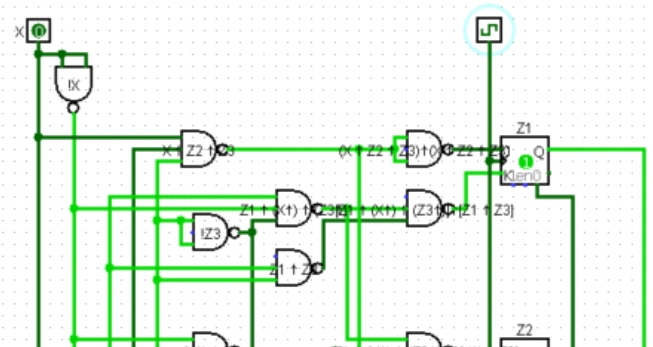
$$k_3: !x \cdot z_5 + x \cdot z_2 \cdot z_3 \Rightarrow [(x \uparrow) \uparrow z_3] \uparrow [x \uparrow z_2 \uparrow z_3]$$

J_3 : z_2 _____
 z_1 _____
 x

0	0	x	x
0	x	x	x

K_3 : z_2 z_1

x	x	1	1
x	x	x	1



z_1	0	0	x	x
x	0	x	x	x
	1	x	x	x
	1	1	x	x

z_1	x	x	1	1
x	x	x	x	1
	x	x	x	0
	x	x	1	0

