

		I_3	I_2	I_1	I_0	a	b	c	d	e	s	g
I_{in}	:	0	0	0	0	1	1	1	1	1	1	0
4	:	0	0	0	1	0	1	1	0	1	1	0
→	:	0	0	1	0	1	1	1	1	0	0	0
↑	:	0	0	1	1	0	0	0	0	0	0	1
↑	:	0	1	0	0	1	1	1	0	1	1	0
6	:	0	1	0	1	1	1	1	0	1	1	1
→	:	0	1	1	0	1	1	1	1	0	0	0
3	:	0	1	1	1	1	0	0	1	0	0	1
↓	:	1	0	0	0	0	1	1	1	1	1	0
2	:	1	0	0	1	1	0	0	1	0	0	0
↑	:	1	0	1	0	1	0	0	1	1	1	0
5	:	1	0	1	1	1	1	0	1	0	1	1
↓	:	1	1	0	0	0	1	1	1	1	1	0
6	:	1	1	0	1	1	1	1	0	1	1	1
→	:	1	1	1	0	1	1	1	1	0	0	0
F_{in}	:	1	1	1	1	0	1	1	0	1	1	1

a

$I_3 I_2 / I_1 I_0$	00	01	11	10
00	1	0	0	1
01	1	1	1	1
11	0	1	0	1
10	0	1	1	1

$$a = \bar{I}_3 I_2 + \bar{I}_3 \bar{I}_0 + I_1 \bar{I}_0 + I_3 \bar{I}_2 I_0 + I_3 \bar{I}_1 I_0$$

b

$I_3 I_2 / I_1 I_0$	00	01	11	10
00	1	1	0	1
01	1	1	0	1
11	1	1	1	1
10	1	0	1	0

$$b = \bar{I}_3 \bar{I}_1 + \bar{I}_3 \bar{I}_0 + \bar{I}_1 \bar{I}_0 + I_3 I_2 + \bar{I}_3 I_1 I_0$$

c

$I_3 I_2 / I_1 I_0$	00	01	11	10
00	1	1	0	1
01	1	1	0	1
11	1	1	1	1
10	1	0	0	0

$$c = \bar{I}_1 \bar{I}_0 + I_3 I_2 + \bar{I}_3 \bar{I}_1 + \bar{I}_3 \bar{I}_0$$

d

$I_3 I_2 / I_1 I_0$	0 0	0 1	1 1	1 0
0 0	1	0	0	1
0 1	0	0	1	1
1 1	1	0	0	1
1 0	1	1	1	1

$$d = \bar{I}_1 \bar{I}_0 + I_3 \bar{I}_2 + \bar{I}_2 \bar{I}_0 + \bar{I}_3 I_2 I_1 + I_3 \bar{I}_0$$

e

$I_3 I_2 / I_1 I_0$	0 0	0 1	1 1	1 0
0 0	1	1	0	0
0 1	1	1	0	0
1 1	1	1	1	0
1 0	1	0	0	1

$$e = \bar{I}_1 \bar{I}_0 + \bar{I}_3 \bar{I}_1 + \bar{I}_2 \bar{I}_1 + I_3 I_2 I_0 + I_3 \bar{I}_2 \bar{I}_0$$

f

$I_3 I_2 / I_1 I_0$	0 0	0 1	1 1	1 0
0 0	1	1	0	0
0 1	1	1	0	0
1 1	1	1	1	0
1 0	1	0	1	1

$$f = \bar{I}_1 \bar{I}_0 + \bar{I}_3 \bar{I}_1 + I_3 \bar{I}_2 I_1 + I_3 I_2 I_0$$

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$\bar{I}_2 I_2 / \bar{I}_1 I_0$	0 0	0 1	1 1	1 0
0 0	0	0	1	0
0 1	0	1	1	0
1 1	0	1	1	0
1 0	0	0	1	0

$$g = \bar{I}_2 I_0 + \bar{I}_1 I_0$$