

2. Hexcess-3 to Binary.

Input (w, x, y, z,) , output (A B C D)
(0011 ~ 1100)

w	x	y	z	A	B	C	D
0	0	1	1	0	0	0	0
0	1	0	0	0	0	0	1
0	1	0	1	0	0	1	0
0	1	1	0	0	0	1	1
0	1	1	1	0	1	0	0
1	0	0	0	0	1	0	1
1	0	0	1	0	1	1	0
1	0	1	0	0	1	1	1
1	0	1	1	1	0	0	0
1	1	0	0	1	0	0	1
1	1	0	1	X	X	X	X
1	1	1	0	X	X	X	X
1	1	1	1	X	X	X	X
0	0	0	0	X	X	X	X
0	0	0	1	X	X	X	X
0	0	1	0	X	X	X	X

<A>

wx \ yz	00	01	11	10
00	X	X		X
01				
11	1	X	X	X
10			1	

$$A = wx + wyz$$

wx \ yz	00	01	11	10
00	X	X		X
01			1	
11		X	X	X
10		1	1	1

$$B = x'y' + x'z' + xyz$$

don't care

<C>

wx \ yz	00	01	11	10
00	X	X		X
01		1		1
11		X	X	X
10		1		1

$$C = y'z + yz'$$

<D>

wx \ yz	00	01	11	10
00	X	X		X
01	1			1
11	1	X	X	X
10	1			1

$$D = z'$$

$$A = wx + wyz$$

$$B = x'y' + x'z' + xyz$$

$$C = y'z + yz'$$

$$D = z'$$

