

$x_2 \ x_1 \ x_0$	$x_2' \ x_1' \ x_0'$	$J_2 k_2$	$J_1 k_1$	$J_0 k_0$
0 0 0	0 1 1	0 X	1 X	1 X
0 0 1	1 0 0	1 X	0 X	X 1
0 1 0	1 0 1	1 X	X 1	1 X
0 1 1	1 1 0	1 X	X 0	X 1
1 0 0	1 1 1	X 0	1 X	1 X
1 0 1	0 0 0	X 1	0 X	X 1
1 1 0	0 0 1	X 1	X 1	1 X
1 1 1	0 1 0	X 1	X 0	X 1

x	x'	JK
$0 \rightarrow 0$	$0X$	
$0 \rightarrow 1$	$1X$	
$1 \rightarrow 0$	$X1$	
$1 \rightarrow 1$	$X0$	

جواب طبق جدول

Jk

18:00
11

$X_1 X_0$		00	01	11	10
X_2	0	0 ₀	1 ₁	1 ₃	1 ₂
	1	X ₄	X ₅	X ₇	X ₆

$$J_2$$

$$J_2 = X_0 + X_1$$

$X_1 X_0$		00	01	11	10
X_2	0	X ₀	X ₁	X ₃	X ₂
	1	0 ₄	1 ₅	1 ₇	1 ₆

$$K_2 = X_0 + X_1 = J_2$$

$X_1 X_0$		00	01	11	10
X_2	0	1 ₀	0 ₁	X ₃	X ₂
	1	1 ₄	0 ₅	X ₇	X ₆

$$J_1 = X_0'$$

$X_1 X_0$		00	01	11	10
X_2	0	X ₀	X ₁	0 ₃	1 ₂
	1	X ₄	X ₅	0 ₇	1 ₆

$$K_1 = X_0' = J_1$$

$X_1 X_0$		00	01	11	10
X_2	0	1 ₀	X ₁	X ₃	1 ₂
	1	1 ₄	X ₅	X ₇	1 ₆

$$J_0 = 1 = K_0$$

$$\overline{1 \quad \overline{1 \quad 1}}$$

- 206

09:00

$x_2 x_1 x_0$	$x_2' x_1' x_0'$	$J_2 k_2$	$J_1 k_1$	$J_0 k_0$	
0 0 0	1 0 1	1 X	0 X	1 X	10:00
0 0 1	1 1 0	1 X	1 X	X 1	11:00
0 1 0	1 1 1	1 X	X 0	1 X	12:00
0 1 1	0 0 0	0 X	X 1	X 1	
1 0 0	0 0 1	X 1	0 X	1 X	13:00
1 0 1	0 1 0	X 1	1 X	X 1	14:00
1 1 0	0 1 1	X 1	X 0	1 X	
1 1 1	1 0 0	X 0	X 1	X 1	15:00

$x_2 \backslash x_1 x_0$	00	01	11	10
0	1 ₀	1 ₁	0 ₃	1 ₂
1	X ₄	X ₅	X ₇	X ₆

$$J_2 = X_0' + X_1' \quad 08:00$$

$$= \text{NAND}(X_0, X_1) \quad 09:00$$

$x_2 \backslash x_1 x_0$	00	01	11	10
0	X ₀	X ₁	X ₃	X ₂
1	1 ₄	1 ₅	0 ₇	1 ₆

$$K_2 = X_0' + X_1' = J_2 \quad 10:00$$

$x_2 \backslash x_1 x_0$	00	01	11	10
0	0	1	X	X
1	0	1	X	X

$$J_1 = X_0 \quad 12:00$$

$x_2 \backslash x_1 x_0$	00	01	11	10
0	X	X	1	0
1	X	X	1	0

$$K_1 = X_0 = J_1 \quad 14:00$$

$$J_0 = K_0 = 1 \quad 15:00$$

16:00

سه سازهی متفاوت است :

$$k_2 = J_2 = (x_0 \oplus x') + (x_1 \oplus x')$$

$$k_1 = J_1 = x_0 \oplus x \rightarrow = J_1'$$

$$k_0 = J_0 = 1$$

$$\Rightarrow k_2 = J_2 = J_1'$$

سه درک برابر با ۲ گیت نانت ، ۲ XOR و یک OR

قابل ساخت است .