

JK-FF

übergang

j	k	Q _n	Q _{n+1}
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

Q _n	Q _{n+1}	j	k
0	0	0	x
0	1	1	x
1	0	x	1
1	1	x	0

	Q _{1n}	Q _{2n}	Q _{3n}	Q _{1n+1}	Q _{2n+1}	Q _{3n+1}	j ₁ k ₁	j ₂ k ₂	j ₃ k ₃
0	0	0	0	0	1	0	0 x	1 x	0 x
2	0	1	0	1	0	0	1 x	x 1	0 x
4	1	0	0	1	1	0	x 0	1 x	0 x
6	1	1	0	0	0	1	x 1	x 1	1 x
1	0	0	1	0	1	1	0 x	1 x	x 0
3	0	1	1	1	0	1	1 x	x 1	x 0
5	1	0	1	0	0	0	x 1	0 x	x 1

j₁

0	1	x	x	Q ₂
1	x	x	x	Q ₂

Q₁ Q₁
k₁ = Q₂ + Q₃

j₂

1	0	1	1
x	x	x	x

j₂ = Q₁ + Q₃

j₃

0	x	x	0
1	x	x	0

j₃ = Q₁ + Q₂
⇒ j₃ = Q₁ · Q₂

Wart bei 7?

Q ₁	Q ₂	Q ₃	j ₁ k ₁	j ₂ k ₂	j ₃ k ₃
1	1	1	(1 1)		

Q₁ toggle ✓
alles gut ✓

