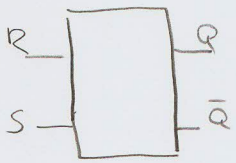
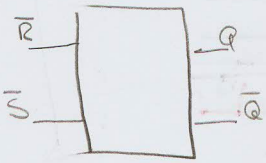
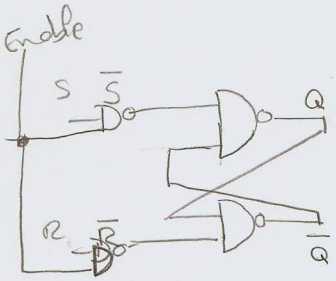
SL

20-10-2011

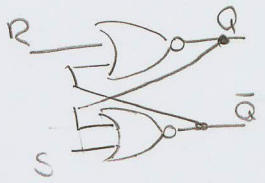






$\bar{S}$	$\bar{R}$	$Q_{t+\delta}$
0	0	X
0	1	1
1	0	0
1	1	0

R	S	$Q_{t+\delta}$
0	0	Q_t
0	1	1
1	0	0
1	1	—



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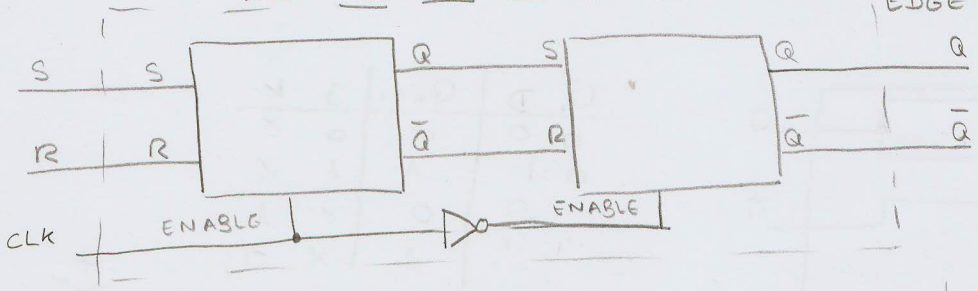
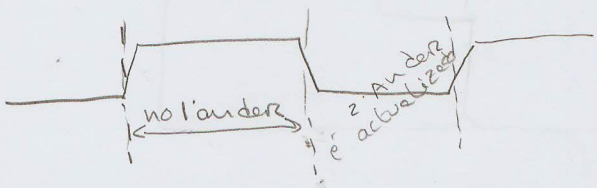
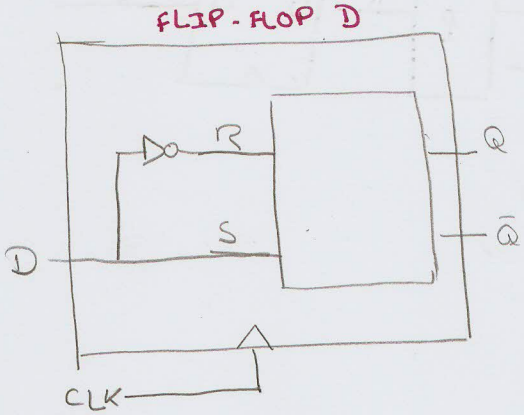
FLIP-FLOP MASTER-SLAVE EDGE-TRIGUERED

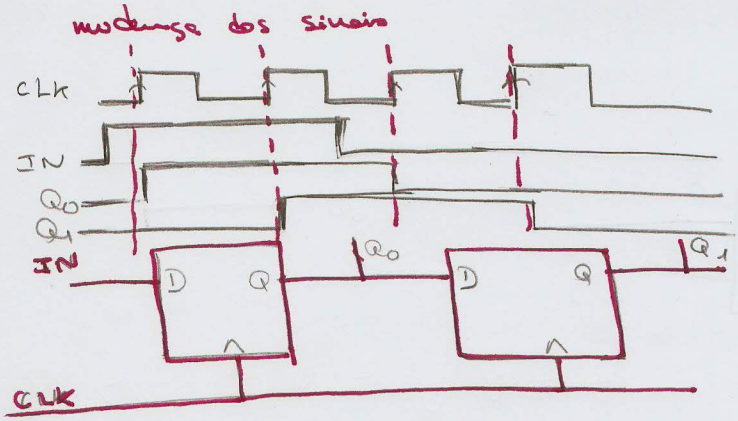




FLIP-FLOP D



D	Q_{n+1}
0	0
0	1



Q1 atrasado no tempo em relação a Q0

Registo de deslocamento

função do Flip Flop D: passo a informação.

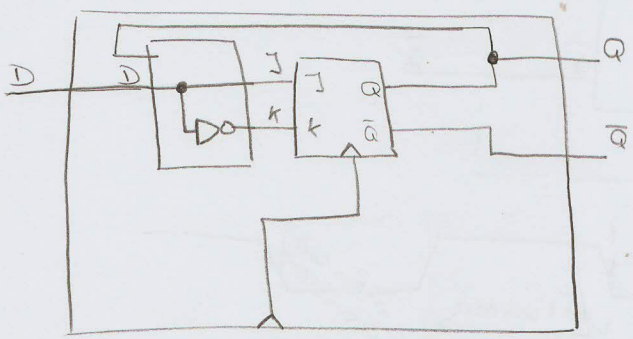
D de Delay

3 Tipos de Flip Flop

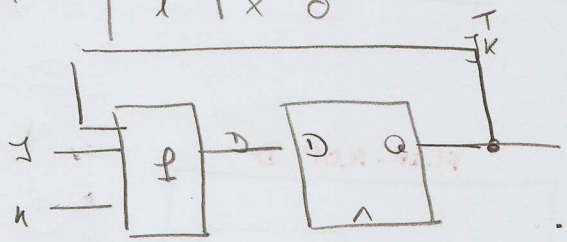
J	K	Q_{n+1}
0	0	Q_n
0	1	0
1	0	1
1	1	$\overline{Q_n}$

T	Q_{n+1}
0	Q_n
1	$\overline{Q_n}$

D	Q_{n+1}
0	0
1	1



Q_n	D	Q_{n+1}	J	K
0	0	0	0	X
0	1	1	1	X
1	0	0	X	1
1	1	1	X	0



$Q_n \rightarrow Q_{n+1}$	J	K	D	T
0 → 0	0	X	0	0
0 → 1	1	X	1	1
1 → 0	X	1	0	1
1 → 1	X	0	1	0

(J)

Q_n	
	X
1	X

D

J = D

(K)

Q_n	
X	1
X	

D

$K = \overline{D}$