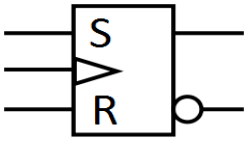
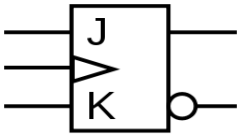
Sammanställning över olika vippor/latchar

/MAS

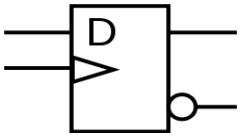


S	R	Q^+	
0	0	Q_0	(Vila)
0	1	0	(Reset)
1	0	1	(Set)
1	1		(Otillåtet)



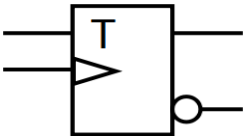
(S) (R)

J	K	Q^+
0	0	Q_0
0	1	0
1	0	1
1	1	Q_0'



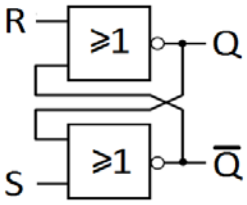
(R=S')

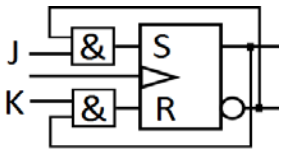
D	Q^+
0	0
1	1

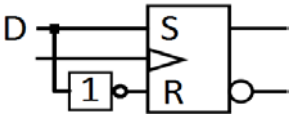


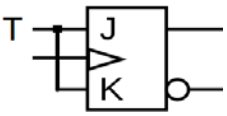
(J=K)

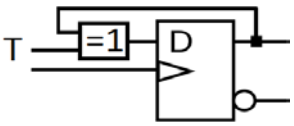
T	Q^+
0	Q_0
1	Q_0'

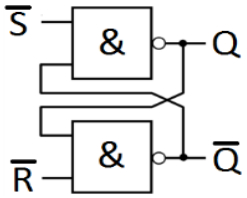








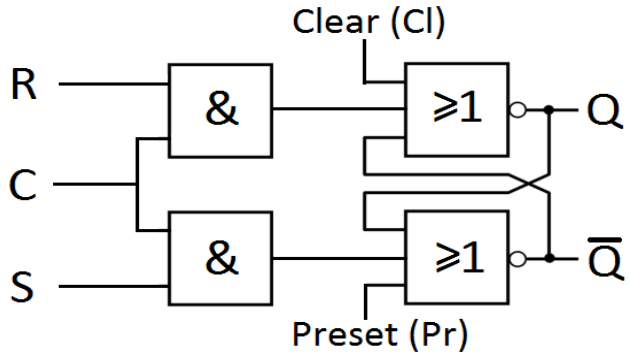




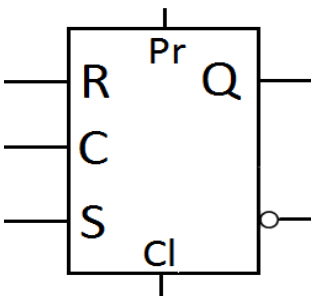
$Q^+ = T \oplus Q$

-> $T = Q^+ \oplus Q$

Exempel på Clear/Preset



C	S	R	Clear	Preset	Q^+
x	x	x	1	0	0
x	x	x	0	1	1
0	x	x	0	0	Q_0
1	0	0	0	0	Q_0
1	0	1	0	0	0
1	1	0	0	0	1
1	1	1	0	0	0

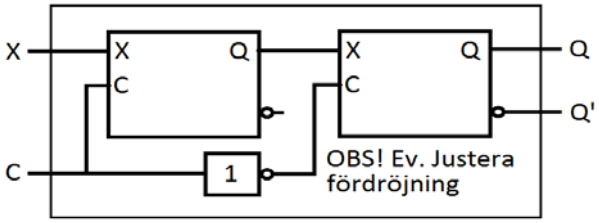


Sammanställning över olika vippor/latchar (forts.)

/MAS

Vippor:

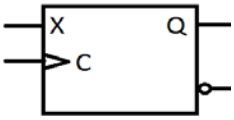
Master-Slave



C	…	Q^+
0	x…	Q_0
↓	…	…

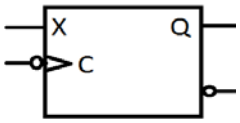
OBS! X måste vara tillgänglig på C↑ för att Q+ skall ändras på C↓ (Fördröjning på 1/2 klockpuls C)

Positivt flanktriggad



C	…	Q^+
0	x…	Q_0
↑	…	…

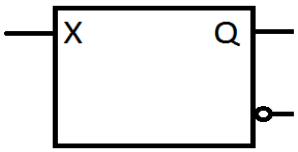
Negativt flanktriggad



C	…	Q^+
0	x…	Q_0
↓	…	…

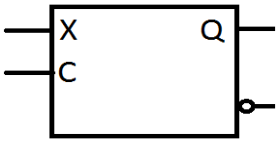
Latchar:

Latch utan C



…	Q^+
…	…

Latch med C



C	…	Q^+
0	x…	Q_0
1	…	…