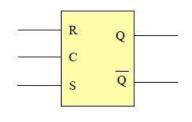
Sistemas Digitais

Diagramas Temporais: Flip-Flop, Latches e Registradores.

O Latch RS Controlado

Exemplo



C	R	S	Q _{t+1}
0	X	X	Qt
1	0	0	Q _t
1	0	1	1
1	1	0	0
1	1	1	-

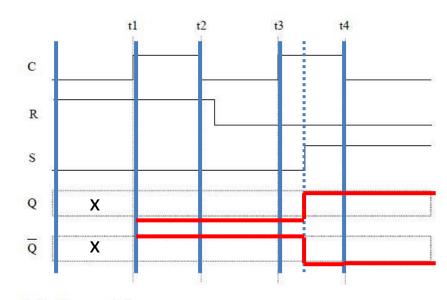
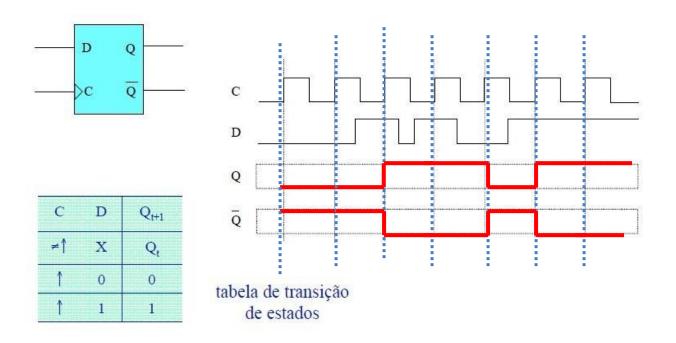
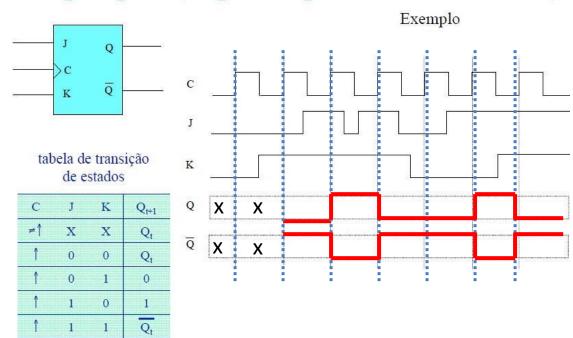


tabela de transição de estados

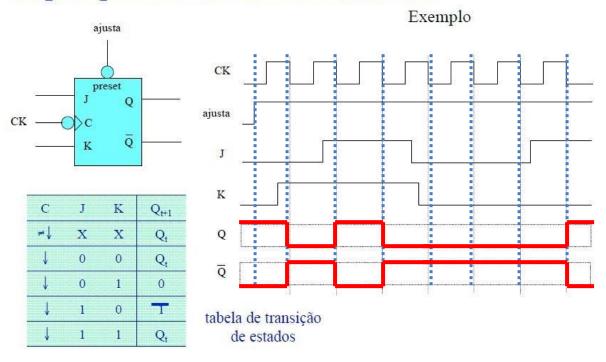
O Flip-flop D disparado pela borda ascendente



O Flip-flop JK (disparado pela borda ascendente)

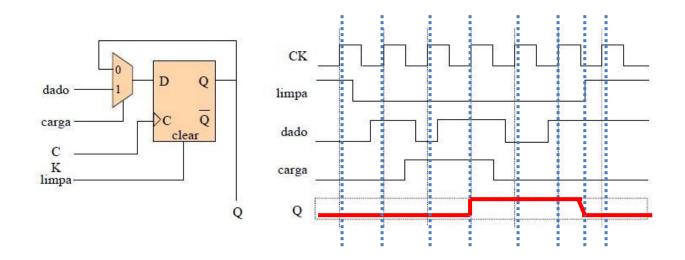


Flip-flops com set e reset assíncronos

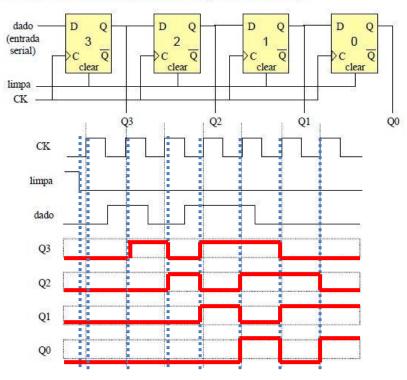


Registrador com carga paralela (versão 2)

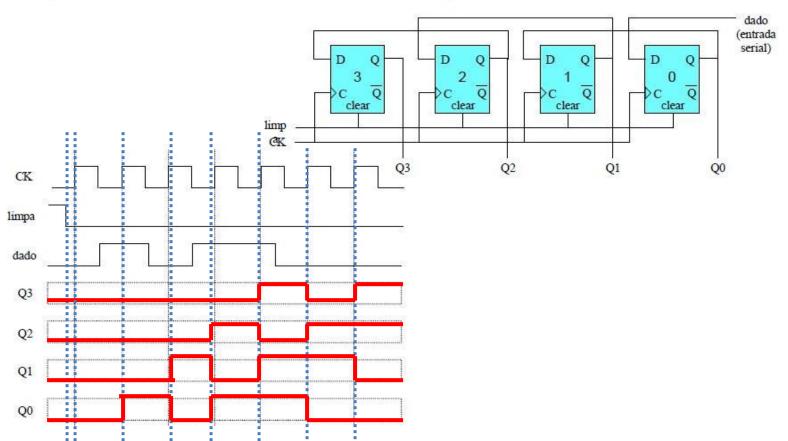
Exemplo



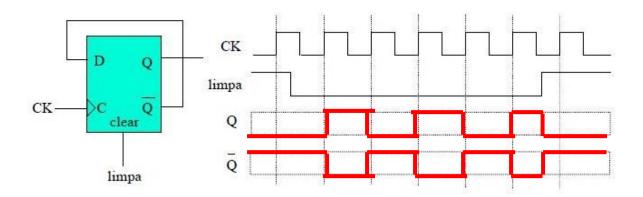
Registrador de deslocamento (à direita)



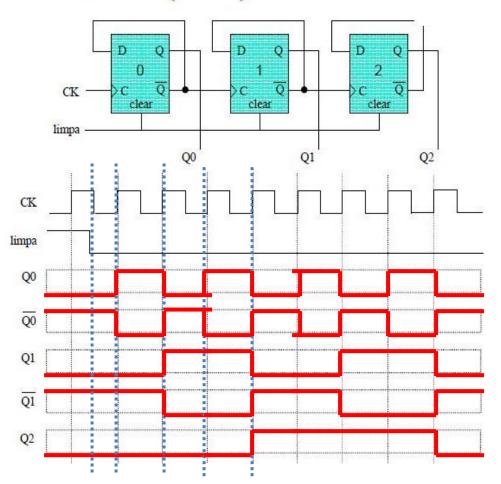
Registrador de deslocamento (à esquerda)



Registrador contador (1 bit)



Registrador contador (3 bits)



Latches, Flip-Flops e Registrador es