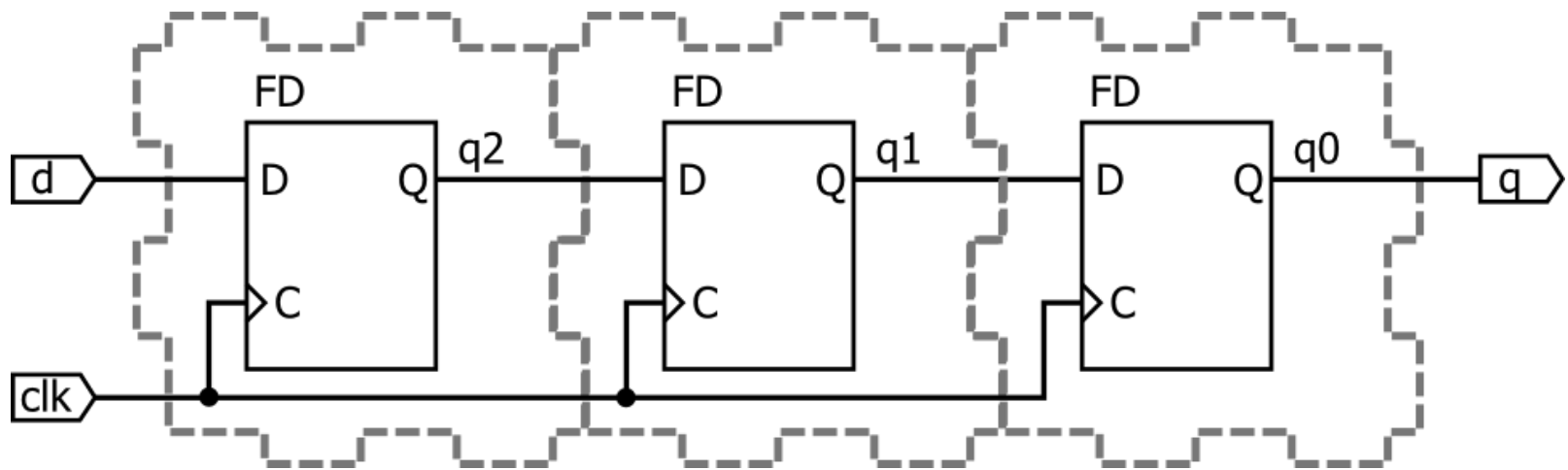


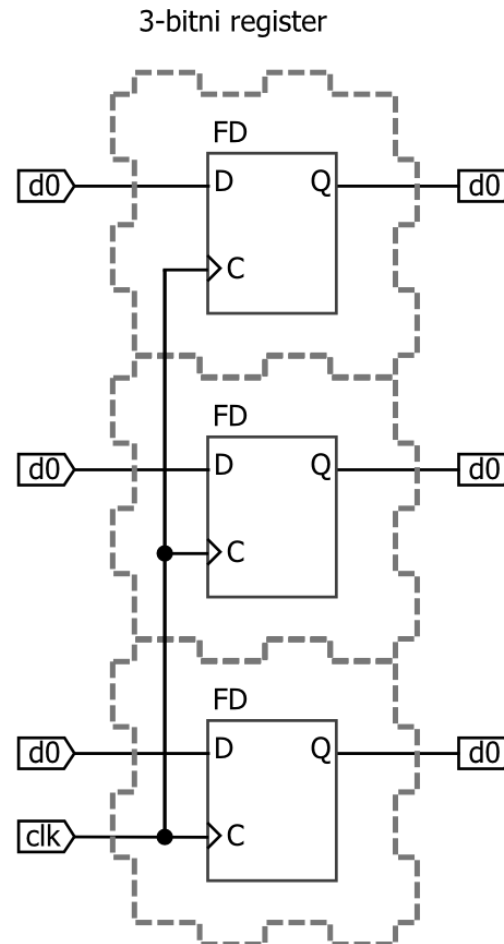
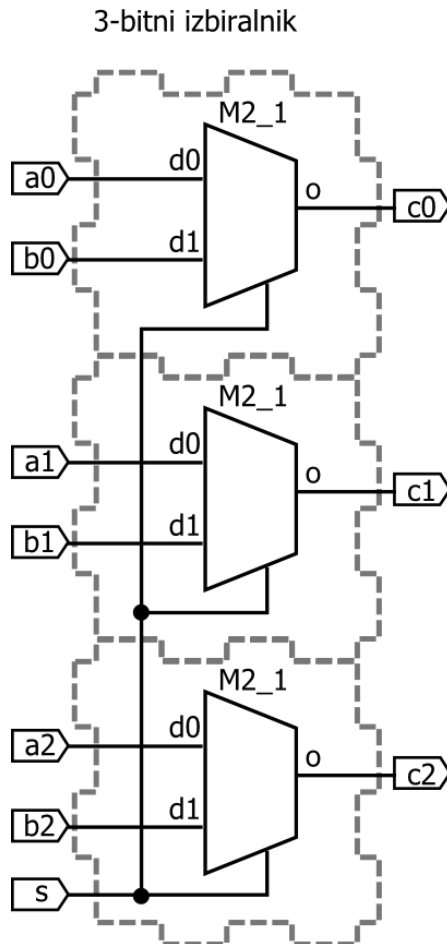
Zaporedna vezava

- ▶ Podatki se pri zaporednem prehodu čez gradnike zakasniijo
- ▶ Krmilni signali so vezani skupaj
- ▶ Npr. pomikalni register iz zaporednih flip-flopov



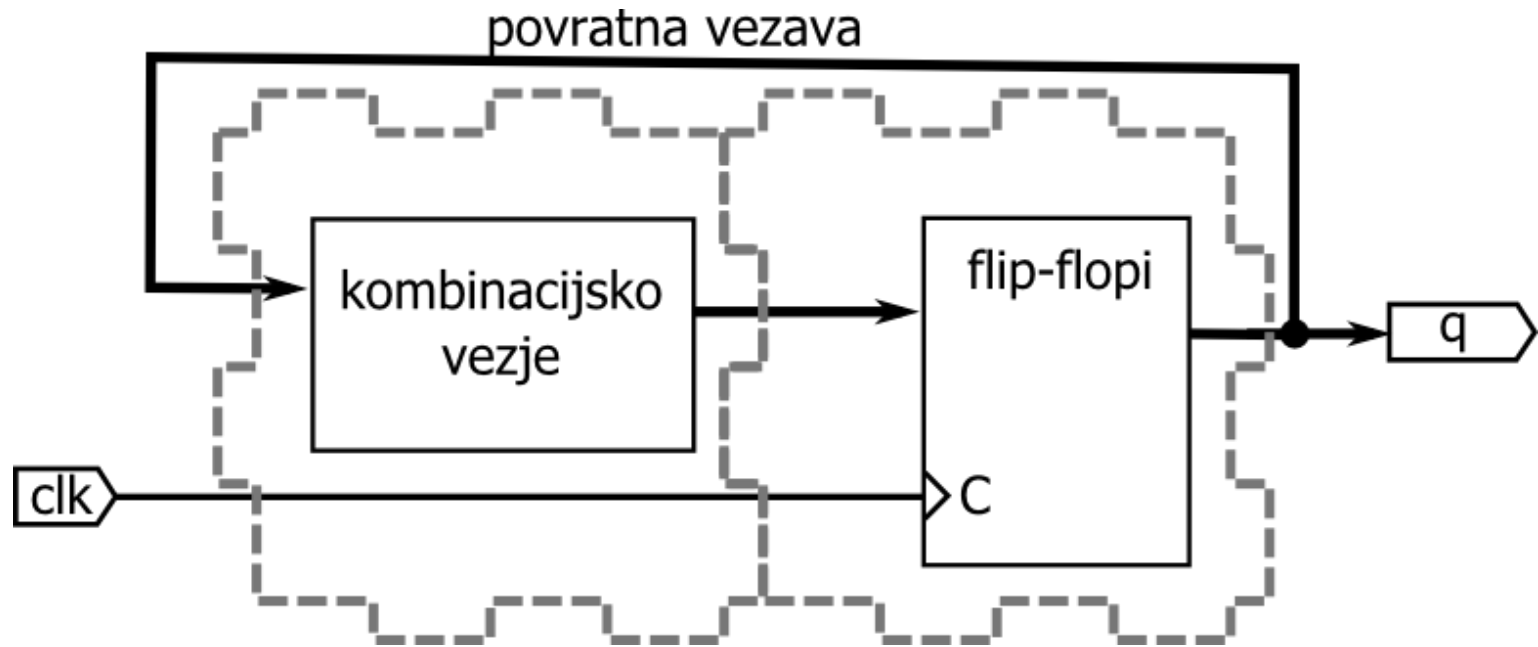
Vzporedna vezava

- ▶ posamezni podatkovni signali niso med seboj povezani
- ▶ zakasnitev taka, kot če bi imeli en gradnik



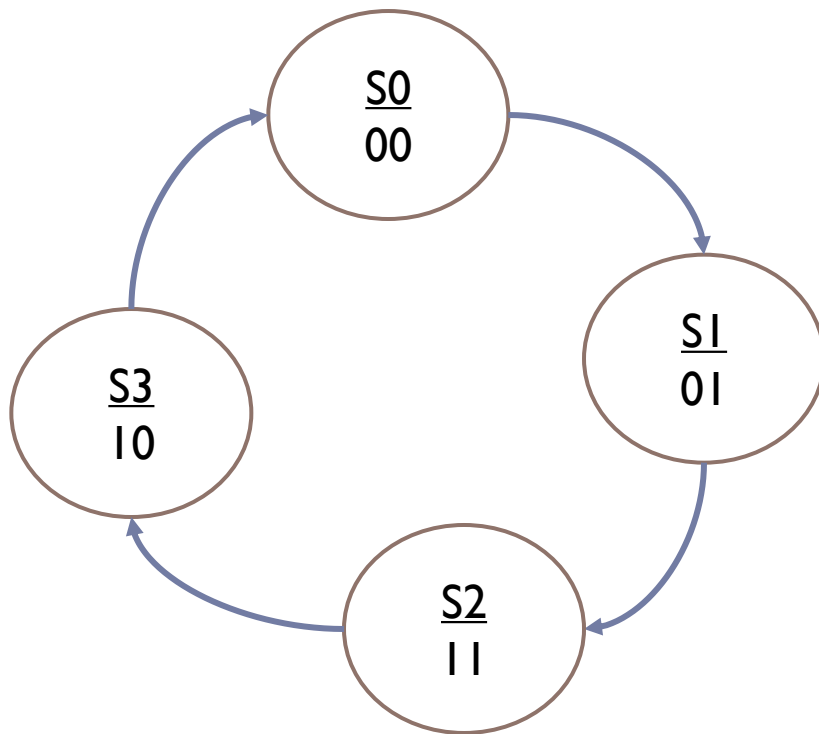
Povratna vezava

- ▶ Podatkovni izhod preko enega ali več gradnikov vezan na vhod istega gradnika
- ▶ V povratni vezavi mora biti sekvenčni gradnik (flip-flop)



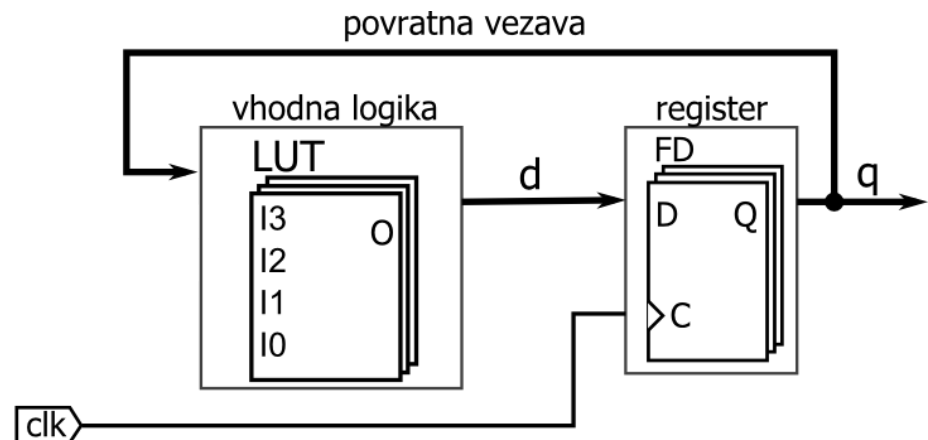
Povratna vezava

► Ciklična sekvenčna vezja – števc



Grayev števec

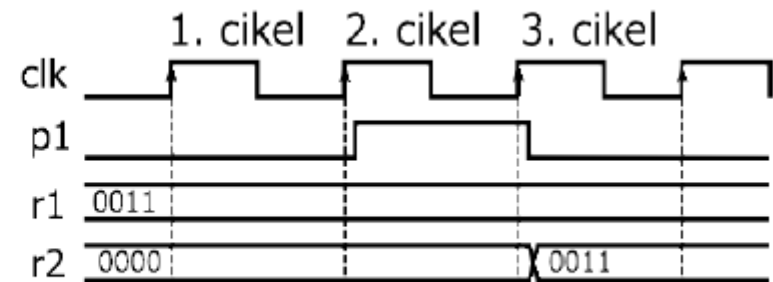
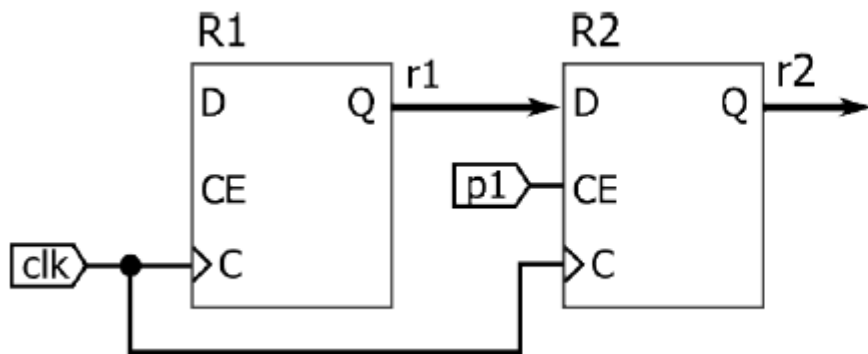
q1 q0	d1 d0
0 0	0 1
0 1	1 1
1 0	0 0
1 1	1 0



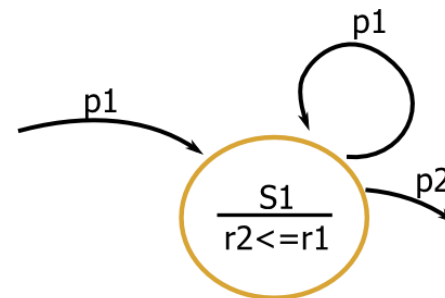
Registrski prenos – mikrooperacija prenosa

- ▶ Prenos podatkov med registri je elementarna operacija
 - ▶ prenos se izvrši ob fronti ure in dodatnim pogojem ($ce = 1$)

$$r2 \leq r1 \mid ce = 1$$



- ▶ Mikrooperacija prenosa v diagramu stanj



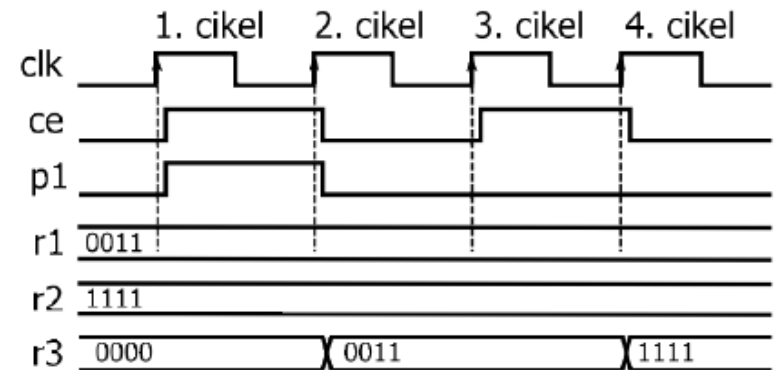
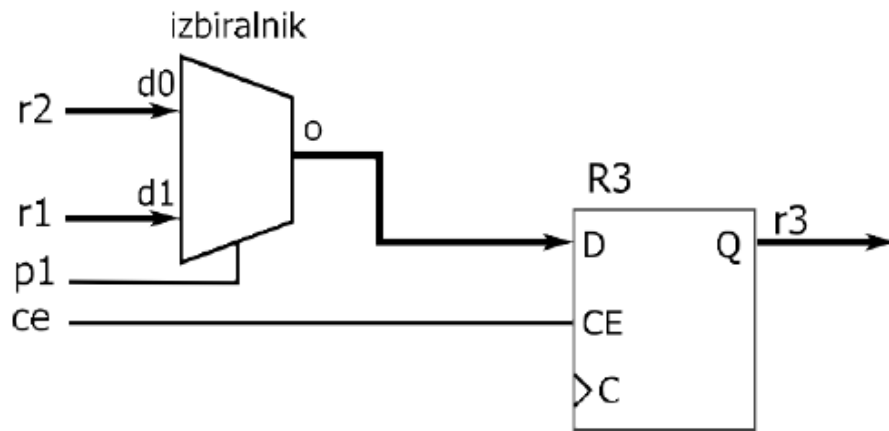
pogoj: stanje=S1

Mikrooperacija: registrski prenos z več izvori

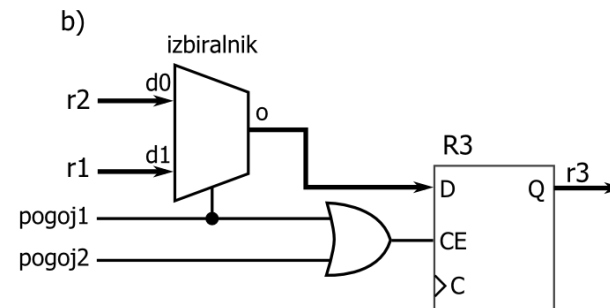
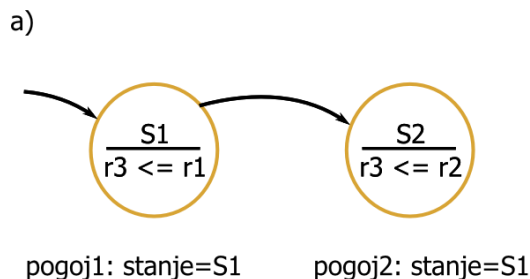
► Vezje vsebuje izbiralnik

$r3 \leq r1 \mid p1=1 \text{ and } ce = 1$

$r3 \leq r2 \mid p1=0 \text{ and } ce = 1$



► Izbirni prenos v diagramu stanj

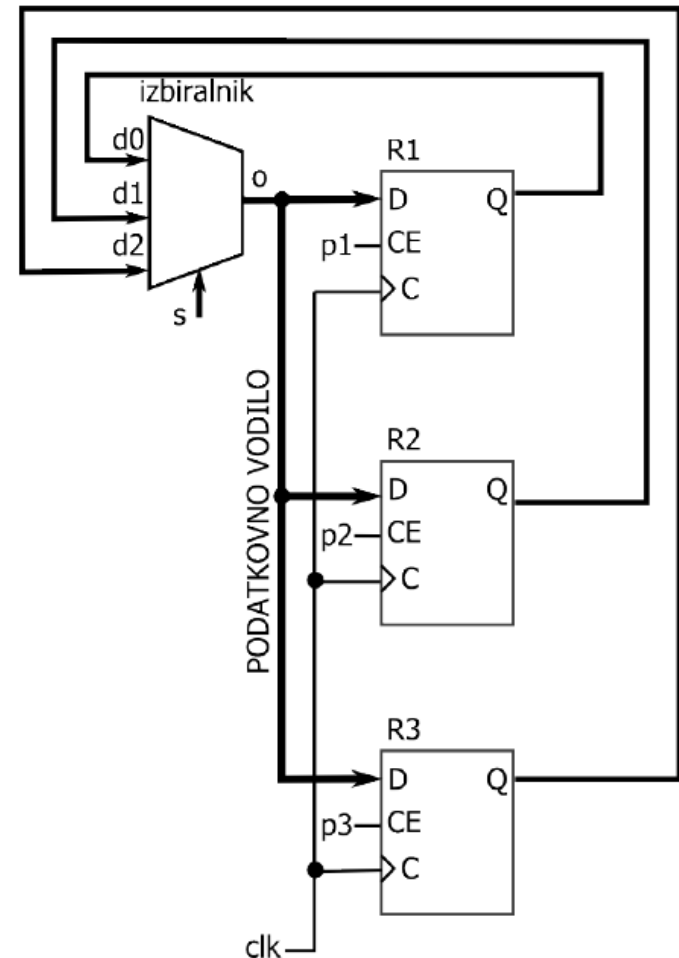
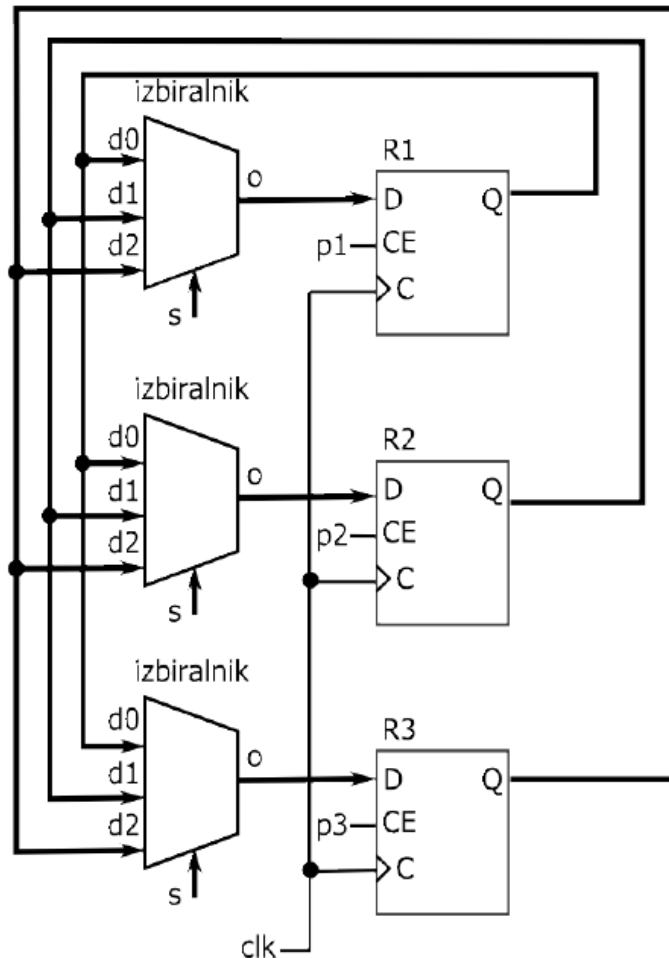


Registrski prenos z vodilom

► Vezje za prenos podatkov med poljubnima registroma

a) z izbiralniki na vsakem vhodu

b) s skupnim vodilom



Mikrooperacija pomika

- ▶ Vezja za zaporedni prenos podatkov
- ▶ Npr. zaporedni pomikalni register (SISO) ali paralelni prenos in zaporedno pomikanje (PISO)

$$\begin{array}{ll} r2 \leq din : r1[3..1] & | \text{shift} = 0 \text{ and } ce = 1 \\ r2 \leq r1 & | \text{shift} = 1 \text{ and } ce = 1 \end{array}$$

