

3)

$D = 100 \text{ km}$   
 $R = 16 \cdot 10^6$   
 $L_i = 80 \text{ sbit}$

$L_a = 8 \text{ sbit}$

$\eta = 100\%$

$W_s = ?$

$$\eta = \frac{t_i \cdot W_s}{t_i + t_a + 2t_r}$$

$$W_s = \frac{\eta \cdot (t_i + t_a + 2t_r)}{t_r}$$

$$W_s = 2,6$$

O: Etmo je velika 3.

$$t_i = \frac{L_i + L_a}{R} = \frac{80 \cdot 8 + 8 \cdot 8}{16 \cdot 10^6} = 4,4 \cdot 10^{-4}$$

$$t_a = \frac{L_a}{R} = \frac{8 \cdot 8}{16 \cdot 10^6} = 4 \cdot 10^{-5}$$

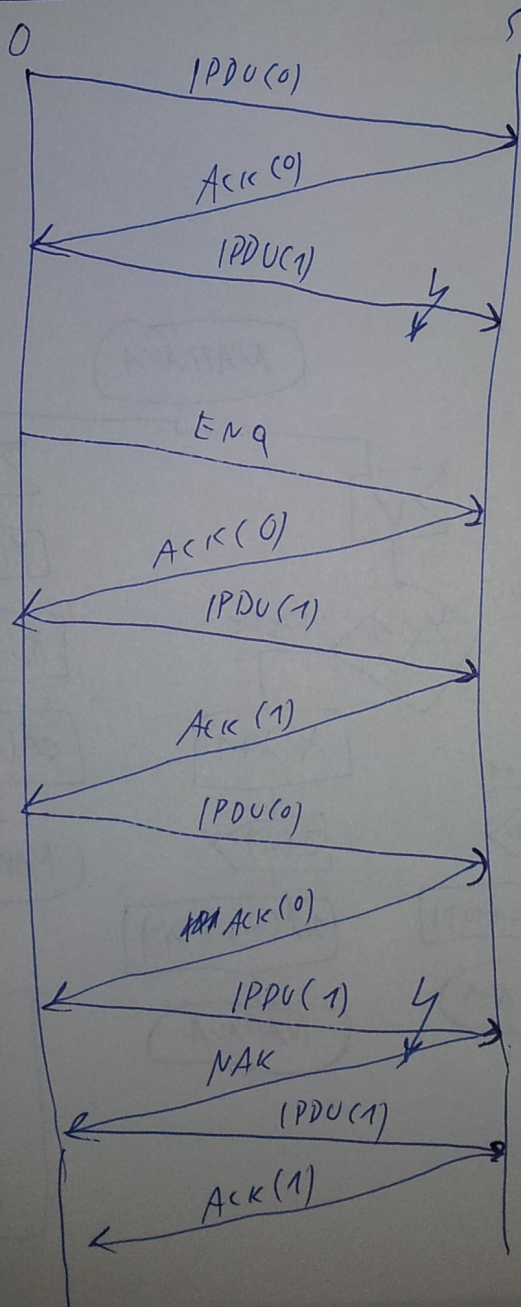
$$t_r = \frac{D}{v} = \frac{100000}{3 \cdot 10^8} = 3,33 \cdot 10^{-4}$$

4)

$t_{ij} = 4 \text{ s}$   
 iahn 9 s

DRUGI SE IZGUBI

ČETRTI SE FOKUARI





Envelope

$D = 360 \text{ km}$

$\nu = 2 \cdot 10^8 \text{ m/s}$

$R = 2 \text{ Mbit/s}$

$L_i = 20 \text{ bitov} \Rightarrow 20 \cdot 8 = 160 \text{ bitov}$

$L_r = 5 \text{ bitov} \Rightarrow 5 \cdot 8 = 40 \text{ bitov}$

$L_e = 5 \text{ bitov} \Rightarrow 5 \cdot 8 = 40 \text{ bitov}$

$W_s = 100$

$\eta = 2$

$\eta_m = 2$

$t_i = \frac{L_i + L_r}{R} = \frac{200 \text{ bitov} \cdot 8}{2 \text{ Mbit/s}} = 0,00016 \text{ s}$

$t_{av} = \frac{L_e}{R} = \frac{40 \text{ bitov} \cdot 8}{2 \text{ Mbit/s}} = 0,000032 \text{ s}$

$t_d = \frac{D}{\nu} = \frac{360 \text{ km} \cdot 10^3}{2 \cdot 10^8 \text{ m/s}} = 0,0018 \text{ s}$

$t = t_i + t_{av} + 2t_d = 0,003728 \text{ s}$

$\eta = \frac{W_s \cdot t_i}{t} = \frac{100 \cdot 0,00016 \text{ s}}{0,003728 \text{ s}} = 2,688 \Rightarrow \underline{\underline{100\%}}$

$\eta_m = \frac{L_i}{L_i + L_r} = \frac{160 \text{ bitov}}{200 \text{ bitov}} \cdot 100 = \underline{\underline{80\%}}$

1) mreža

ZNAK	7	6	5	4	3	2	1	PAR
0	1	0	0	1	1	1	1	0
1	1	1	0	1	1	0	0	1
i	1	1	0	1	0	0	1	1
m	1	1	0	1	1	0	1	0
p	1	1	1	0	0	0	0	0
v	1	1	0	1	0	0	1	1
j	1	1	0	1	0	1	0	1
d	1	1	1	0	0	1	1	0
k	1	1	0	1	0	1	1	0
l	1	1	0	0	1	0	1	1
o	0	1	0	0	0	0	0	0
i	1	1	0	1	0	0	1	1
g	1	1	0	0	1	1	1	0
r	1	1	1	0	0	1	0	1
l	1	1	0	0	1	0	1	1
PAR	1	1	0	1	1	1	1	1

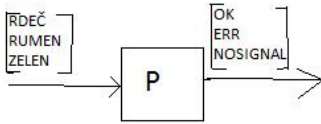
4) mreža

00110101.11001101.00110110.00101001

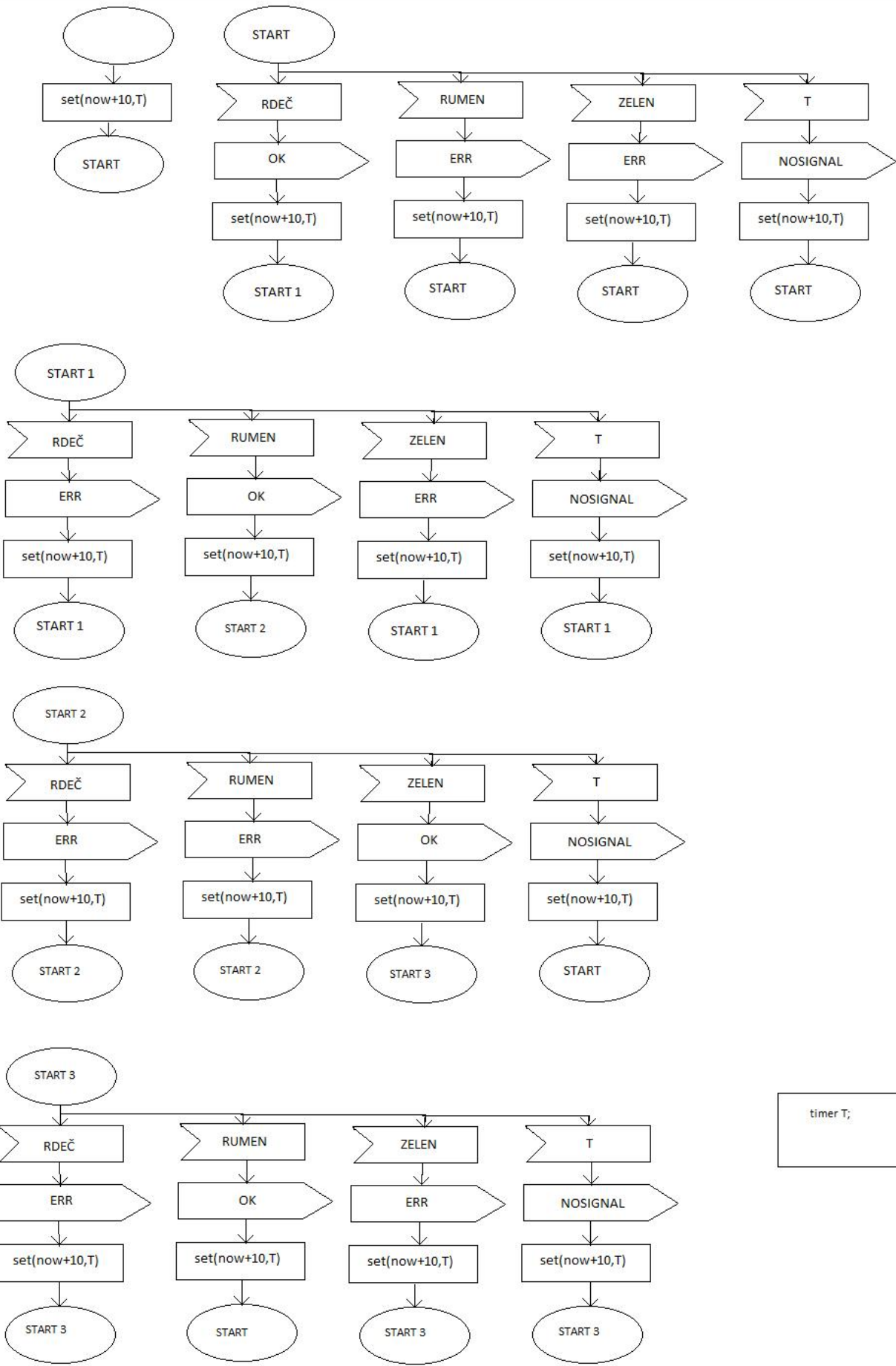
IP = 53. 205. 54. 41

e) mreža registarskih je ulazna mrežarska + IP

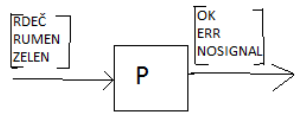
g) Dometi po je ulazna mrežarska - a + IP



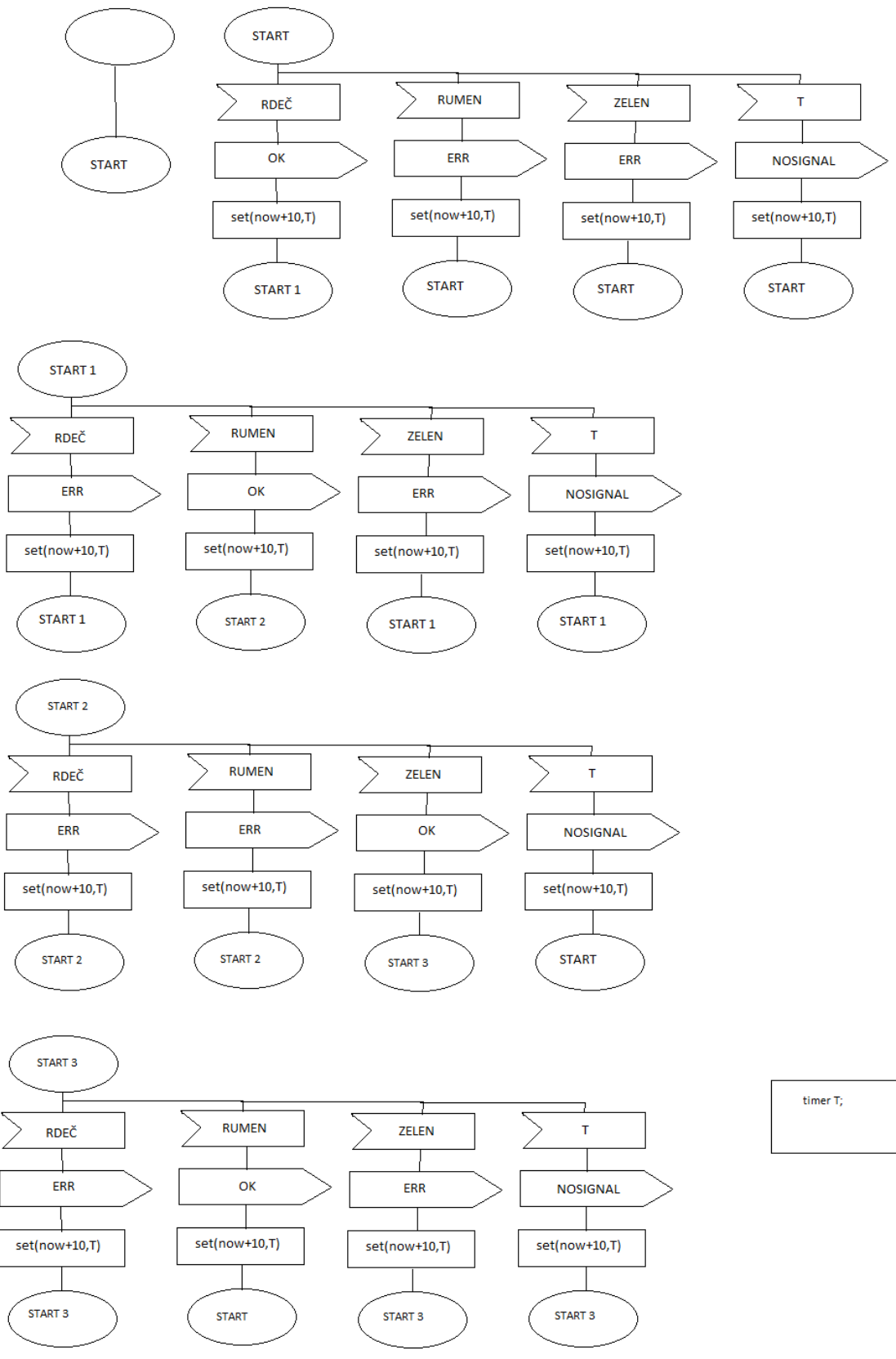
Signal RDEČ, RUMEN, ZELEN, OK, ERR, NOSIGNAL



timer T;



Signal RDEČ, RUMEN, ZELEN, OK, ERR, NOSIGNAL



timer T;