

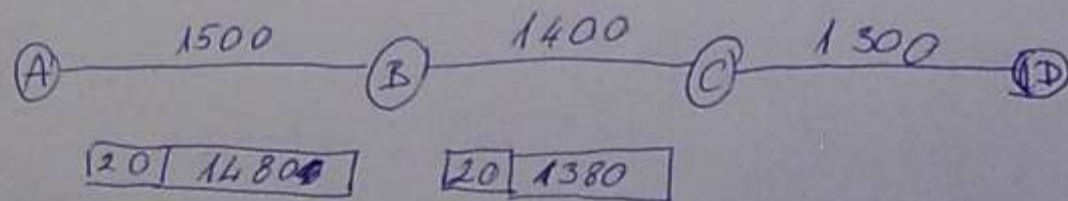
(weighted round robin)

	A	B	C
csk.	50	500	1500
súlyok:	0,5	0,75	1
súly/csk.	$1/100$	$3/2000$	$1/1500$
	60	9	4
	3000	4500	6000
megfelelő arány			

/ · 6000
/ közös nevező

IP fejléc + IP payload

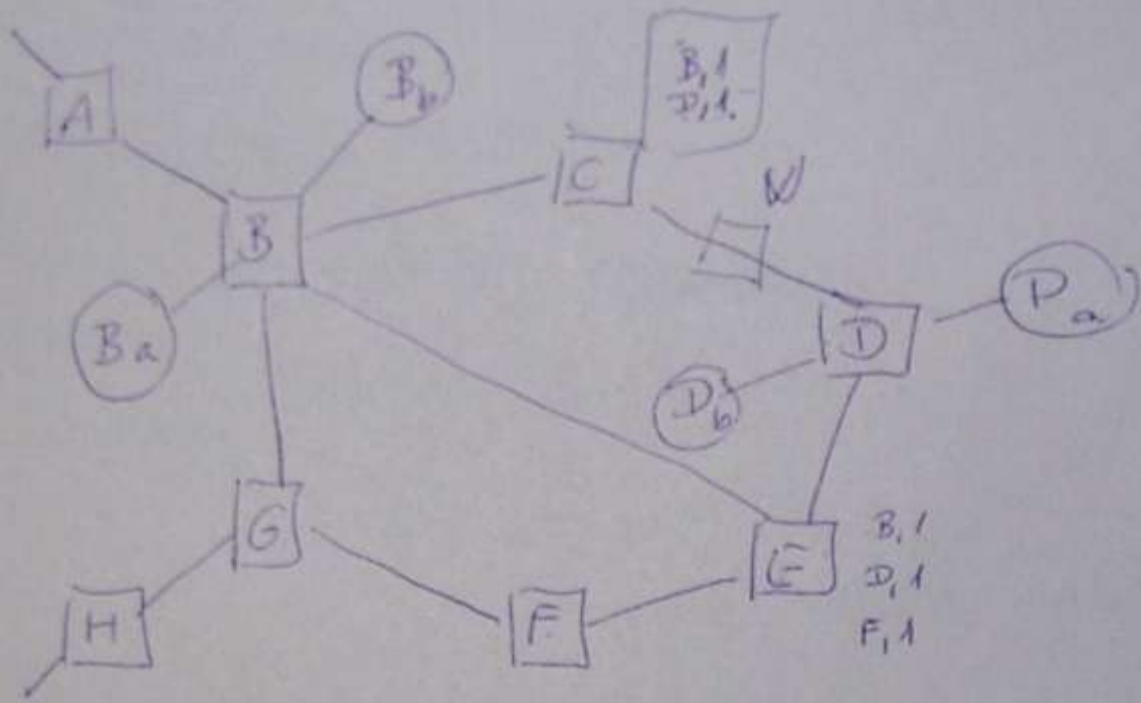
1500
1400
1300



fehérítő: $T : 100 \mu s = 10^{-5} s$
 adatátviteli:
 sebesség $10 \text{ Mbit/s} = 10^7 \text{ bit/s}$

Minimális keretméret:

$$T \cdot C = 10^{-5} \cdot 10^7 = 100 \text{ bit} = \lceil 12,5 \text{ byte} \rceil = 13 \text{ byte}$$



B:

B	A	1
B	C	1
B	E	3
B	G	1
B	Ba	0
B	Bb	0

P	T
B	C(B,1) E(B,1)

C(D,1)

P	T
B	D(C,1)

→ E(B,1) →

P	T
B	C(E,1) E(B,1) D(C,2)

↓

P	T
B	C(B,1) E(B,1) D(G,2) D(E,2)

Def round robin (utkonez 33 dia)

Minimálna cena

	A	B	C
	150	80	120
1.	100	√20	100
2.	√50	120/0	√80

adag: 100

N-QAM

$$(2^n)^2 \rightarrow 4\text{-QPSK}$$
$$16\text{-QAM}$$

$$400 \text{ Kband} = 800 \text{ kbit/s} \rightarrow 100 \text{ ~~KByte/s~~ KByte/s}$$

CSMA/CD

L: 200 m (szegmens mérete)

C: 10 Mbit/s

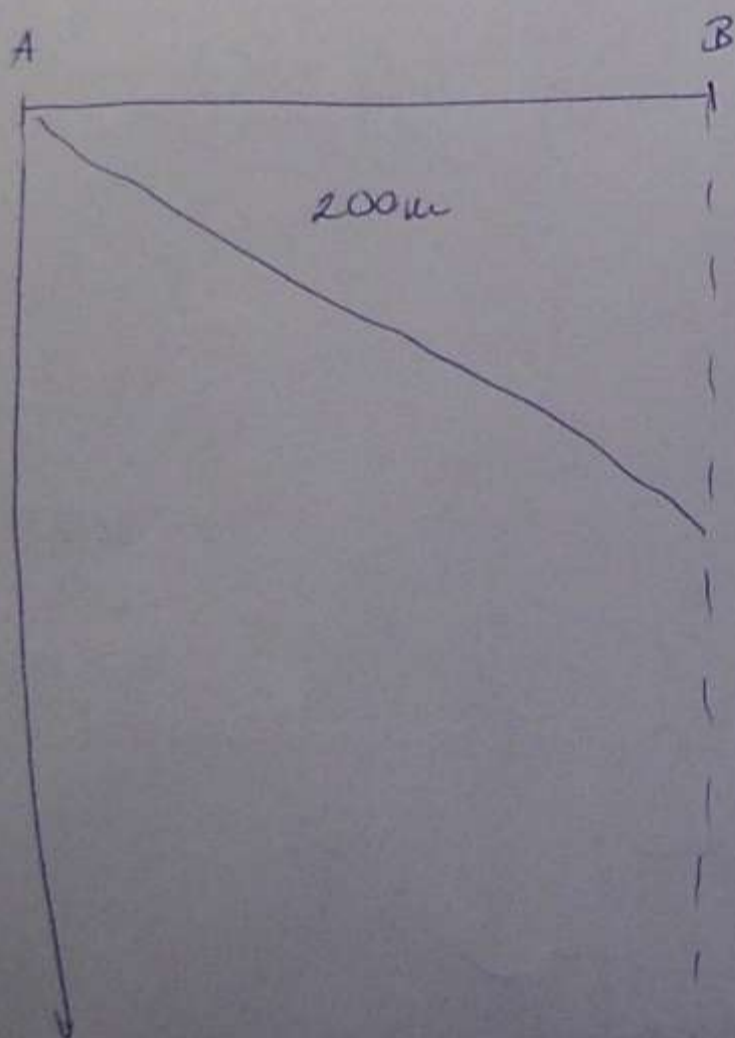
re'idő = ?

$$c = 2 \cdot 10^8 \text{ m/s} \text{ (fénysebesség } \frac{2}{3} \cdot a)$$

$$L = t \cdot c$$

$$t = \frac{L}{c}$$

$$2t = \frac{2L}{c} = \frac{2 \cdot 10^2}{2 \cdot 10^8} = 2 \cdot 10^{-6} = 2 \mu\text{s}$$



$$c: 4 \text{ Mbit/s} = 4 \cdot 10^6 \text{ bit/s}$$

L: 500 m \rightarrow terjedési idő

$$M: 1000 \text{ byte} = 8 \cdot 10^3 \text{ bit}$$

adabidő = ?

$$t = \frac{M}{c} = \frac{8 \cdot 10^3}{4 \cdot 10^6} = 2 \cdot 10^{-3} = 2 \text{ ms}$$

2000 μs

$$t_{\text{terj}} = \frac{L}{c} = \frac{500}{2 \cdot 10^8} = 2,5 \cdot 10^{-6} \text{ s} = 2,5 \mu\text{s}$$

WIFI:

$$N = 3 \cdot 10^8$$