Aufgabe 1 – Paketübertragung   SS 17

1) Link L1: $t_x = \dfrac{250 \text{ Byte}}{20 \text{ Mbps}} = \dfrac{2000 \text{ Bit}}{20\,000\,000 \frac{\text{Bit}}{s}} = 0,0001s = 0,1ms$

Link L2: $t_x = \dfrac{250 \text{ Byte}}{4 \text{ Mbps}} = \dfrac{2000 \text{ Bit}}{4\,000\,000 \frac{\text{Bit}}{s}} = 0,0005s = 0,5ms$

Link L3: $t_x = \dfrac{250 \text{ Byte}}{800 \text{ kbps}} = \dfrac{2000 \text{ Bit}}{800\,000 \frac{\text{Bit}}{bps}} = 0,0025s = 2,5ms$

Link L4: $t_x = \dfrac{250 \text{ Byte}}{80 \text{ Mbps}} = \dfrac{2000 \text{ Bit}}{80\,000\,000 \frac{\text{Bit}}{s}} = 0,0000025s = 0,025ms$

$$T_{EZE}(1) = T_{\ell 1}(1) + T_{\ell 2}(1) + T_{\ell 3}(1) + T_{\ell 4}(1)$$

$$= 0,1ms + 10ms + 0,5ms + 10ms + 2,5ms + 1ms$$

$$+ 0,025ms + 10ms = 34,125\,ms$$