

## Quality of Service

Website yang dikunjungi saat analisis lalu lintas jaringan computer :

<https://www.kompasiana.com/endidwikristianto/55186af481331147699de684/menghitung-delay-paket-jaringan-menggunakan-wireshark>

- Delay

$$\begin{aligned}\text{Rata - rata delay} &= \text{Total delay} / \text{total paket yang diterima} \\ &= 35,825 \text{ sec} / 156 \\ &= 0,2296 \text{ sec} \\ &= 229,6 \text{ ms}\end{aligned}$$

- Jitter

$$\begin{aligned}\text{Rata - rata jitter} &= \text{Total variasi delay (total jitter)} / (\text{total paket yang diterima} - 1) \\ &= 0,003128 \text{ sec} / (156 - 1) \\ &= 0,003128 \text{ sec} / 155 \\ &= 0,0000201806 \text{ sec} \\ &= 0,0201806 \text{ ms}\end{aligned}$$

- Throughput

$$\begin{aligned}\text{Throughput} &= \text{Paket data yang diterima} / \text{lama pengamatan} \\ &= 6072187 / 34,978 \text{ sec} \\ &= 173600,17725427 \text{ bytes} \\ &= 173,600177254269994 \text{ kb}\end{aligned}$$

- Packet loss

$$\begin{aligned}\text{Packet loss} &= ((\text{Paket data dikirim} - \text{paket data diterima}) * 100\%) / \text{paket data yang dikirim} \\ &= ((156 - 156) * 100\%) / 156 \\ &= (0 * 100\%) / 156 \\ &= 0 \% / 156 \\ &= 0 \%\end{aligned}$$