Network Traffic

- > arrival rate

- \( \bar{T}_n \) = average holding time

- C : closing time = \( \frac{1}{\bar{T}_n} \)

- Service rate = \( \bar{T}_n \) = \( \rho \)

- Load = \( \rho \) = \( \bar{T}_n \) (capacity enlarged)

- = \( \lambda_n \)
One server

\[ \rightarrow \bigcup_{\text{10}} \quad r > 1 \]

\[ P = \frac{1}{r} \]

\[ x = \frac{1}{\pi r^2} \]

Th

\( u \) and \( v \) are random, i.i.d.

One voice call \( \rightarrow \) talk, put, silence

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