

ASYMPTOTIC STATIONARITY OF TANDEM OF QUEUES

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Abstract: In [12] it was proved that the process of waiting times for single server queues is asymptotically stationary if

- (1) a generic process $X = \{X_k, k \geq 1\}$ is asymptotically stationary,
- (2) X satisfies condition AB and
- (3) the two-sided stationary extension $X^* = \{X_k^*, -\infty < k < \infty\}$ of the stationary representation of X is such that $\sum_{j=-n}^0 X_j^* \rightarrow -\infty$ a.e.

The paper gives a detailed characterization of condition AB. Next, the sufficient conditions on the input to a tandem of queues are given under which the inputs to the nodes in that tandem satisfy conditions (1)-(3).

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