AN EXPOSITION OF LITTLES LAW

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ABSTRACT. Littles law is a meta-theorem that arises natural in the modeling and analysis of queueing systems. It is given implied validity and justification in many applications. In this presentation, I discuss my thesis work, which contains an exposition and rigorous development of a version of Little’s law that utilizes a sample-path analysis. The presentation will include an introduction to Littles law, a brief history of the evolution of the law, an introduction to sample path analysis, and an outline of the proof given in the thesis. Finally, I will illustrate the utility of Little’s Law by applying it to a variety of examples.

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