Performance Evaluation of Round Robin and Proportional Fair Scheduling Algorithms for Mobile and Stationary UEs in LTE

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Abstract

The latest communications technology known as Long Term Evolution (LTE) is characterized by high speed data rate which allows users to access the Internet via (through)their mobile phone as well as through other devices like laptops, tablets and smart TVs. An important issue is the scheduling, a process which consists in allocating physical resources to the user equipment based on scheduling algorithms implemented at the base station. Hence in this paper, an attempt has been made to evaluate the performance of Proportional Fair (PF) and Round Robin (RR) scheduling algorithms for Constant Bit Rate (CBR) traffic scenario for stationary and mobile User Equipment. For simulation throughput, jitter and delay are considered performance metrics.

Biography

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