

## Research Article

# $(N, n)$ -Preemptive-Priority M/G/1 Queues with Finite and Infinite Buffers

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In this paper, we analyze an M/G/1 priority queueing model with finite and infinite buffers under the  $(N, n)$ -preemptive priority discipline, under which preemption decisions are made based on the number of high-priority customers. This priority queueing model can be used for the performance analysis of communication systems accommodating delay- and loss-sensitive packets simultaneously. To analyze the proposed model, we extend the method of delay cycle analysis and develop a queue length version of it for finite-buffer queues. Throughout our analysis, we demonstrate that by the proposed method the analysis of the complex priority queueing model can be reduced to that of simple delay cycles, so two different preemption modes of the queueing model can be dealt with in a unified way. The numerical study reveals that adjusting the decision variables  $N$  and  $n$  allows us to fine-tune system performance for different classes of customers, and  $N$  operates as a primary control variable, regardless of the preemption mode and service-time distributions.

## 1. Introduction

In this paper, we consider an M/G/1 priority queueing model with a finite buffer for high-priority customers and an infinite buffer for low-priority customers. We call this an M/G/1/( $K, \infty$ ) priority queue. The priority queue operates under the  $(N, n)$ -preemptive priority discipline. This is a flexible priority discipline in which the decision whether to preempt a low-priority customer in service is made based on the number of high-priority customers in the system.

In general, priority queueing models are extensively used for the analysis of communication and computer systems [1–6]. Priority queueing models with finite and infinite buffers have been studied mainly for the analyses of communication systems used to service heterogeneous streams of traffic simultaneously [7–12]. In such a system, there is loss-sensitive traffic as well as delay-sensitive traffic arriving at the system. To accommodate heterogeneous service needs of these two types of traffic, the loss-sensitive traffic is offered space priority with an effectively infinite buffer, while the delay-sensitive traffic is given time priority with the privilege of getting serviced earlier than the loss-sensitive traffic.

However, all the studies mentioned above are restricted to priority queueing models with finite and infinite buffers under the nonpreemptive priority discipline. Although the nonpreemptive priority discipline is more straightforward to implement than the preemptive priority discipline, there is a major drawback that the service quality for high-priority customers may degrade severely when the service time of a low-priority customer is long or varies significantly. For this reason, there have been recent studies on preemption-based scheduling methods for communication systems that accommodate both high-volume multimedia traffic and delay-sensitive traffic [2–6]. In this line of thought, [13] has recently analyzed an M/G/1/( $K, \infty$ ) priority queueing model under the preemptive-resume priority discipline as well as under the nonpreemptive one. To do this, [13] developed a delay cycle analysis of single-class finite-buffer M/G/1 queues and combined it with the traditional delay cycle analysis of infinite-buffer M/G/1 priority queues. [14] also has studied M/G/1/( $K, \infty$ ) priority queues under the preemptive-repeat-different priority discipline as well as under the preemptive-repeat-identical discipline.

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