Dynamic Analysis of Priority with Linear Decreasing Function of a Priority in the Service System with Four Types of Application

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Abstract

The problem of choosing optimal parameters for dynamic priorities in the case of the various types of service requests with linearly decreasing function of priorities, performed experiments and obtained results. These results can be used to develop algorithms of functioning nodes for data and their software. In this paper we propose a method for solving the problem of choosing the optimal values of these coefficients that minimize the total value of the queue length in systems with four types of applications.

References

3. Lee Y., Choi B. Queueing system with multiple delay and loss priorities for ATM networks
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Index Terms

Computer Science Applied Mathematics

Keywords

Service, dynamic priorities, Optimization, Dynamic priorities, Priority.