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. The results of analysis and simulations models of distributed computer networks with dynamic priorities and a limited buffer residence time requirements of the network is limited. The network constraint violation results in a loss requirements. A comparative analysis of the results of analytical and simulation models are conducted to verify the adequacy of the analytical models.

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**Index Terms**

Computer Science

Networks

**Keywords**

Service, dynamic priorities, Optimization, Dynamic priorities, Priority