MIMA ALGORITHM THROUGHPUT MODELLING FOR CROSSBAR SWITCH WITH HOTSPOT LOAD TRAFFIC

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Abstract: The task which includes computing of non-conflict schedule for cross-bar switch of packet commutation is NP-hard. After checking their efficiency with throughput modelling by uniform load traffic, the check for non-uniform traffic is required. In this paper a family of pattern-matrices is used for the simulation of non-uniform traffic based on the hotspot model. The applicability check is executed through computer simulated commutation using our MiMa-algorithm. The simulation results permit to evaluate the MiMa's throughput as tending to 100%.

МОДЕЛИРОВАНИЕ ПРОПУСКНОЙ СПОСОБНОСТИ MIMA-АЛГОРИТМА ДЛЯ ПАКЕТНОГО КОММУТАТОРА ПРИ ВХОДЯЩЕМ ТРАФИКЕ ТИПА „ГОРЯЧЕЙ ТОЧКИ"

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