

NUMERICAL EXAMINATION OF ALGORITHMS FOR NON-CONFLICT TRAFFIC SCHEDULING IN CROSSBAR SWITCHING NODES

K. Kolchakov, V. Monov

Institute of Information and Communication Technologies, Bulgarian Academy of Sciences
kkolchakov@abv.bg, vmonov@iit.bas.bg

Abstract: In this paper we discuss fourteen algorithms for non-conflict scheduling of the traffic in switching nodes of type Crossbar. The comparative analysis of algorithms gives an overview of their potentiality related to the performance, speed and required memory as a function of the types and size N of matrixes used for simulation of the input connectivity matrix T . An approach for performance improvement of the best of algorithms is proposed.

Key words: network nodes, node traffic, crossbar switch, conflict elimination, packet messages.