AN APPROACH FOR SYNTESIS OF NON-CONFLICT SCHEDULE WITH OPTIMAL PERFORMANCE OF SUB MATRICES IN A CROSSBAR SWITCHING NODE

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Abstract: In this paper, we present the synthesis of an optimal conflict-free schedule in terms of performance of the sub matrices in the connection matrix of a scheduling algorithm with diagonal activations of joint sub-switching matrices for a crossbar switch node. The algorithm was recently proved to be optimal with respect to the overall performance and necessary memory.

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