

AN ALGORITHM FOR NON CONFLICT SCHEDULE WITH DIAGONAL ACTIVATION OF JOINT SUB MATRICES

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In this paper, we have developed an algorithm for a non-conflict schedule obtained through the activation of joint diagonal sub matrices in switching nodes of type Crossbar. A software model is elaborated with the purpose of studying the algorithm. The size of sub matrices in the Crossbar is optimized and a finite automat is designed for a sub matrix control. A comparison with known algorithms with diagonal activation of connection matrix is done.

Key words: *Network nodes, Message switching Node traffic, Crossbar switch, Conflict elimination, Packet messages, Sparse matrix.*