Data Structures and Algorithms for Packet Forwarding and Classification

Sartaj Sahni

Department of Computer and Information Science and Technology,
University of Florida, USA
Sahni@cise.ful.edu

Abstract. We review the data structures that have been proposed for the forwarding and classification of Internet packets. Data structures for both one-dimensional and multidimensional classification as well as for static and dynamic rule tables are reviewed. Sample structures include multi-bit one- and two-dimensional tries, quad trees, binary trees on binary trees, and list of hash tables.

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