

ABSTRACT

FRAGMENTED PACKET TRAFFIC RATE LIMITING METHOD, DPU FRAGMENTED PACKET FORWARDING METHOD, AND APPARATUS

This application provides a fragmented packet traffic rate limiting method, a DPU fragmented packet forwarding method, and an apparatus. The rate limiting method includes: performing pre-coloring processing on a target fragmented packet based on a preset packet fragment coloring table such that the target fragmented packet is provided with a color mark, where the color mark includes a discarded color and a reserved color; performing traffic evaluation on the pre-colored target fragmented packet based on a color-aware token bucket algorithm to perform secondary coloring processing on the target fragmented packet, and updating the packet fragment coloring table based on the color mark of the target fragmented packet subjected to secondary coloring; and performing rate limiting processing on a target fragmented packet which is marked as the discarded color. In this application, resource consumption in a traffic evaluation process can be effectively reduced, traffic evaluation efficiency can be improved, and validity and reliability of fragmented packet traffic rate limiting can be ensured, thereby effectively avoiding forwarding of an invalid fragmented packet, improving fragmented packet forwarding efficiency, and reducing a waste of a network bandwidth resource.

Figure 1