

PACKET PROCESSING METHOD IN CLOUD COMPUTING SYSTEM, HOST, AND SYSTEM

ABSTRACT

Embodiments of the present invention provide a packet processing method in a
5 computing system, a host, and a system. At least one network interface card is connected to
the host. A virtual machine monitor VMM runs on the host. A first virtual machine runs on the
VMM. The VMM includes a virtual bridge and a virtual network function module. The
network interface card includes switching equipment and at least two network ports. A first
network port is corresponding to at least one physical function PF and multiple virtual
10 functions VFs. At least one VF of the first network port is provided for the first virtual
machine in a passthrough manner. The first virtual machine sends a data packet from the VF
that is connected to the virtual machine. Switching equipment of the first network port
forwards the data packet according to a destination MAC address of the data packet, and
sends the data packet to the virtual bridge on the VMM. The virtual bridge transfers the data
15 packet to the virtual network function module. The virtual network function module provides
abundant network function processing for the data packet. In a network interface card
passthrough scenario, after sending a data packet from a passthrough VF, a virtual machine
may redirect the data packet from a network interface card to a virtual network function
module on a VMM in the foregoing manner, and provide abundant virtual network functions
20 for a user by using the software module.

Fig. 2