

ABSTRACT

Embodiments of the present description provide a hypercall method and apparatus for a kernel-mode program of an enhanced Berkeley packet filter. The method is applied to a virtual machine monitor, comprises: acquiring, in response to a virtualization page fault triggered by the kernel-mode program, a memory address where the virtualization page fault is triggered; determining whether the memory address of the virtualization page fault is consistent with a memory address corresponding to a page fault key in a mapping table, wherein the mapping table records a mapping relationship between a key-value pair, the page fault key is a key in the mapping table determined jointly by the kernel-mode program and the virtual machine monitor, and each key in the mapping table uniquely corresponds to one memory address; reading, from the mapping table, a page fault value mapped by the page fault key if the memory address of the virtualization page fault is consistent with the memory address corresponding to the page fault key, wherein the page fault value comprises a function type of a hypercall written by the kernel-mode program before the virtualization page fault is triggered; and executing, based on the function type indicated by the page fault value, the hypercall of the function type.

<Fig.3>