

COMPUTER DEVICE, EXCEPTION PROCESSING METHOD, AND INTERRUPT PROCESSING METHOD

ABSTRACT

5 A computer device is disclosed. In a virtualization I/O procedure, a redirection apparatus in a processor is used to implement privilege level switching in a synchronization processing procedure, to directly switch from a virtualization privilege level of a VM to a user mode of a host, and perform corresponding exception processing. In an asynchronous processing procedure, an interrupt request may be asynchronously transferred by using a virtual event notification apparatus and an interrupt controller in the processor without passing through a kernel mode of the host. In
10 both of a synchronous processing procedure and the asynchronous processing procedure of the device, overheads generated during switching are reduced, and performance of the computer device is improved.

FIG. 2

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