TITLE OF INVENTION: MEMORY PAGE FAULT HANDLING METHOD AND SYSTEM

ABSTRACT

Embodiments of the present disclosure provide a memory page fault handling method and system. The memory page fault handling method includes that a data processing device sends a page fault request to a page fault request handling device in response to determining that a memory page fault corresponding to an I/O access sent by a virtual machine occurs; the page fault request handling device sends a page fault message to a page fault exception queue based on the page fault request; a virtual machine manager obtains the page fault message from the page fault exception queue, performs page fault handling based on the page fault message to obtain a missing memory page, and sends the missing memory page to the page fault request handling device; and the page fault request handling device updates a mapping page table based on the missing memory page, so that the data processing device performs an I/O access operation according to an updated mapping page table.

FIG. 2