ABSTRACT

The present invention provides a data operation method and device, including: determining whether current time reaches the query time of completion queue of NVMe interface; the completion queue of NVMe interface aforementioned stores processing results generated after NVMe interface processes IO access request; if the query time is not reached, the first IO access request will be obtained from the to-be-submitted queue of NVMe interface; the to-be-submitted queue stores an IO access request for data operation in a ready state; sending the first IO access request to NVMe interface, and marking the first data operation request corresponding to the first IO access request with a waiting state; returning to the step of determining whether the current time reaches query time of completion queue of NVMe interface until the query time is reached or the to-be-submitted queue of the NVMe interface has no IO access request.

FIGURE 2