ABSTRACT

Embodiments of the present application provide a data access method and system, a hardware offloading device, an electronic device, and a medium. In the embodiments of the present application, on one hand, a data access task for an object-based storage system is transferred from an electronic device to a hardware offloading device for execution, which can reduce processing pressure on the electronic device, improve processing performance of the electronic device, and enhance data access performance. On the other hand, after every time receiving a to-be-written file from an application, the hardware offloading device does not directly write the to-be-written file into the object-based storage system, but first caches it locally, and after a plurality of to-be-written files are cached, the hardware offloading device merges the plurality of to-be-written files into a new object file to write it into the object-based storage system. In this way, the number of times of object file access for the object-based storage system can be greatly reduced, so that a request fee generated from the object file access for the object-based storage system is reduced, and a data access cost is reduced.

Fig. 2