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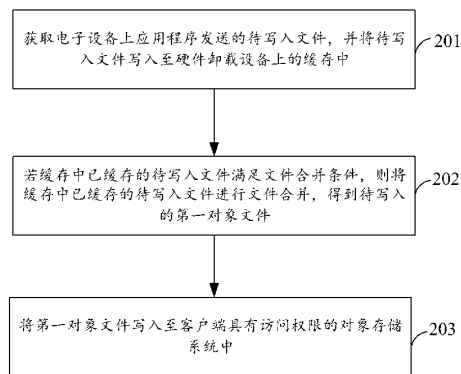
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(54) Title: DATA ACCESS METHOD AND SYSTEM, HARDWARE OFFLOADING DEVICE, ELECTRONIC DEVICE AND MEDIUM

(54) 发明名称: 数据访问方法及系统、硬件卸载设备、电子设备及介质



- 201 Acquire a file to be written sent by an application on an electronic device, and write the file into a cache on a hardware offloading device
- 202 If the file to be written cached in the cache satisfies a file merging condition, perform file merging on the cached file to be written in the cache to obtain a first object file to be written
- 203 Write the first object file into an object storage system where a client has an access permission

图 2

(57) 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 the one hand, a data access task for an object storage system is transferred from the electronic device to the hardware offloading device for execution, so that the processing pressure of the electronic device can be reduced, the processing performance of the electronic device is improved, and the data access performance can be enhanced. On the other hand, when receiving a file to be written from an application each time, the hardware offloading device does not directly write the file into the object storage system, but locally caches same, and after a plurality of files to be written are cached, the plurality of files are merged into a new object file and written into the object storage system. In this way, the number of accesses of object files for the object storage system can be greatly reduced, a request fee generated by object file access for the object storage system is reduced, and the data access cost is reduced.

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SN, TD, TG)。

本国际公布:

— 包括国际检索报告 (条约第21条(3))。

(57) 摘要: 本申请实施例提供一种数据访问方法及系统、硬件卸载设备、电子设备及介质。在本申请实施例中, 一方面, 将针对对象存储系统的数据访问任务从电子设备转移至硬件卸载设备上执行, 可以减轻电子设备的处理压力, 提高电子设备的处理性能, 且能够增强数据访问性能。另一方面, 硬件卸载设备在每接收到来源于应用程序上的待写入文件后, 并不直接将待写入文件写入至对象存储系统中, 而是首先在本地进行缓存, 在缓存到多个待写入文件后, 再将多个待写入文件合并成一个新的对象文件写入至对象存储系统。这样, 能够极大地减少针对对象存储系统的对象文件访问次数, 减少针对对象存储系统的对象文件访问所产生的请求费用, 降低数据访问成本。