

ABSTRACT

A storage system and a data processing method are provided, where the system includes a client and a data node; the client is configured to receive a tagging operation instruction for a data file, parse the tagging operation instruction to obtain tagging operation information, generate a data operation request corresponding to a target data node according to the tagging operation information, and send the data operation request to the target data node; the target data node is configured to receive the data operation request, and perform a tagging processing on data interval to be operated associated with the data file in a local storage space according to the data operation request. By tagging the unnecessary data stored in the data node, invalid data does not need to be processed in the subsequent garbage collection, which effectively reduces the write amplification generated by garbage collection and reduces the garbage data, and also enables data to be directly written into the data interval to be operated when it is subsequently written into the data node, thus improving the writing efficiency and reducing the storage cost.

Fig. 1