

ABSTRACT



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When a computer issues a reading request for data stored in a storage medium, it is judged whether or not the respective data to which the reading request is issued are in cache hit with data stored in a read buffer, and only data which are not cache hit among the data to which the reading request is issued are read out from the storage medium, to be buffered in the read buffer, the data to which the reading request is issued are transferred from the read buffer to the computer, and data at addresses subsequent to the data to which the reading request is issued are pre-read from the storage medium and buffered in the read buffer so as to be continuous with the read data which have been buffered. Thereby, it is possible to utilize cache data efficiently and effectively.



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