DATA TRANSFER BETWEEN A DATA STORAGE SUBSYSTEM AND HOST SYSTEM

ABSTRACT

Described is a technique for transferring data from a data storage system to a connected host data processing system. The subsystem comprises a device controller connected to one or more direct access storage devices e.g. disk drives. The system issues data transfer commands to the subsystem to iniciate transfer of data between system and device(s). Read/write data is transferred directly from device to host via a buffer in the controller. For a read operation, the read command specifies the data to be transferred and the start address in host memory to which it should be sent. The device controller is capable of amending the start address to which it actually sends the data. This provides a performance benefit for split data transfers. In addition, if an error occurs during a read operation, the controller can specify the host address to which the replacement data should be sent.

Fig. 1.

This Sheet Has Been Replaced

