

DATA STORAGE LIBRARY WITH MEDIA DESTAGING AND PRESTAGING FOR IMPROVED RESPONSE TIME

ABSTRACT

A method for improving the response time of a data storage library of removable media is disclosed. The library (500) includes a media storage rack (502) with multiple slots (504) for storing data media, a storage drive (508) for writing data to or reading data from one of the media (506), a picker (510) for moving the media (506) between the slots (504) and the drive (508), and a destage slot (514) physically close to the drive (508). The method comprises the steps of: moving a first medium from the drive (508) to the destage slot (514), moving a second medium from a slot holding the second medium to the drive (508), the second medium being the medium that will be accessed next by the drive (508); during the operation of the drive (508) on the second medium, returning the first medium from the destage slot (514) to the slot originally holding the first medium; and positioning the picker (510) close to the drive (508).

Figs. 5, 6

