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(54) Title: MULTI-PATH DATA RETRIEVAL FROM REDUNDANT ARRAY

(57) Abstract: An optimum pathway to data stored on a data storage system having N storage devices and more than N pathways is determined in response to a read request for the data. A sorter separates the read request into an appropriate segment size for sending to the storage devices of the data storage system. An assigner generates the set of read permutations satisfying the read request. A read permutation is selected based on a metric. A collector recieves the requested data from the N storage devices in response to the selected read permutation being sent to the storage devices.

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