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TRANSACTION SUPPORT ON LOGICAL DISKS

ABSTRACT

Apparatus (20) for performing a data transaction, including at least one storage device (28, 30, 34) which is adapted to receive data as a succession of data blocks for storage at respective physical locations therein and control circuitry (33, 35, 37) is configured to convey the succession of data blocks to the at least one storage device (28, 30, 34) while writing to the at least one storage device (28, 30, 34), together with at least some of the data blocks , parameters indicative of the identity of the data transaction, the identity of the recorder of the transaction state, and a location of a subsequent data block in the succession. The control circuitry (33, 35, 37) is also configured to transform a state of the data so as to complete (commit or abort) the data transaction using some of the indicative parameters. In the event of a failure of the apparatus (20) before a transaction is completed, i.e., commited or aborted, the apparatus (20) facilitates complete recovery using data stored in the data blocks.

FIG. 1A



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