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ABSTRACT

A mirroring RAID system is provided at low cost using a single magnetic disk drive. The magnetic disk drive comprises a host I/F 2 for receiving data transferred from an external host device, a magnetic disk 10 for recording data thereon, and a magnetic head 11 and preamplifier circuit 16 for recording data on the magnetic disk 10, wherein the magnetic disk drive further comprises a control CPU 5 which, based on the transfer speed of the data transferred from the external host device and on performance indices unique to the magnetic disk drive, computes the number of duplicate data recordable times representing the number of times that the transferred data can be recorded in duplicate on the magnetic disk 10, and which controls the magnetic head 11 and preamplifier circuit 16 so that the data transferred from the external host device will be recorded on the magnetic disk 10 a number of times that does not exceeds the number of duplicate data recordable times thus computed.

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