ABSTRACT

A METHOD FOR CONTROLLING A BUFFER MEMORY FOR A MAGNETIC DISK STORAGE SYSTEM

The present invention provides a method for storing and retrieving 8-bit character information for a magnetic disk storage system in a number of 4xn DRAM buffer memory configurations, comprising: providing a virtual memory address for each item of 8-bit information, said information being organised into a 16-byte block, translating the virtual memory addresses into corresponding addresses of memory locations in said 4xn buffer memory for storage of 4-bit groups of said block in said buffer memory, said translation including: selecting a row address for storage of said block, selecting a base column address for said block, and successively incrementing said base column address to provide additional column addresses for successive groups of said block, and transferring each of said groups of said block through a 4-bit data bus to the various predetermined address locations in one of said buffer memory configurations determined by said translating step.

Figure 4