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ONLINE PLACEMENT OF VIDEO FILES ON DISKS IN A SERVER ENVIRONMENT

ABSTRACT

A placement system and method wherein the placement of programs such as movies, audio programs, audio-visual programs and similar types of data, is determined as a function of the bandwidth-space ratio (BSR) of each disk (410) in the system. The BSR of a disk (410) is defined as the bandwidth of the disk (410) divided by the space. The BSR of the programs on the disk (410) is the total expected demand for the programs divided by the space required to store the programs. In a preferred embodiment, a Video Placement Manager (408) (a software task operating under a server's (406) main control program) places the programs on the disks (410) so as to best match the BSR of movies stored on the disk (410) and the BSR of the disk (410), thus minimizing the waste of both disk bandwidth and disk space.

Figure 4.

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