

ABSTRACT

Online disk space is a valuable, relatively expensive, and frequently scarce resource that is often abused by users who squander it on large quantities of inactive data. Large inactive files should instead be moved to cheaper and more abundantly available offline or near-line storage. Users, however, are often reluctant to utilize offline storage because it is difficult to use. An extension to the UNIX operating system that transparently migrates inactive data between online and offline storage is examined, enhanced, and evaluated.