NAME

vfs_cacheprime - prime the kernel file data cache

SYNOPSIS

vfs objects = cacheprime

DESCRIPTION

This VFS module is part of the **samba**(7) suite.

The vfs_cacheprime VFS module reads chunks of file data near the range requested by clients in order to make sure the data is present in the kernel file data cache at the time when it is actually requested by clients.

The size of the disk read operations performed by vfs_cacheprime is determined by the cacheprime:rsize option. All disk read operations are aligned on boundaries that are a multiple of this size. Each range of the file data is primed at most once during the time the client has the file open.

This module is stackable.

OPTIONS

cacheprime:rsize = BYTES
    The number of bytes with which to prime the kernel data cache.

    The following suffixes may be applied to BYTES:

    ⊕
    - BYTES is a number of kilobytes

    ⊕
    - BYTES is a number of megabytes

    ⊕
    - BYTES is a number of gigabytes

EXAMPLES

For a hypothetical disk array, it is necessary to ensure that all read operations are of size 1 megabyte (1048576 bytes), and aligned on 1 megabyte boundaries:

        [hypothetical]

vfs objects = cacheprime
cacheprime:rsize = 1M

CAVEATS

cacheprime is not a substitute for a general-purpose readahead mechanism. It is intended for use only in very specific environments where disk operations must be aligned and sized to known values (as much as that is possible).

VERSION

This man page is part of version 4.13.17 of the Samba suite.

AUTHOR

The original Samba software and related utilities were created by Andrew Tridgell. Samba is now developed by the Samba Team as an Open Source project similar to the way the Linux kernel is developed.