

**NAME**

vfs\_readahead - pre-load the kernel buffer cache

**SYNOPSIS**

vfs objects = readahead

**DESCRIPTION**

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

This `vfs_readahead` VFS module detects read requests at multiples of a given offset (hex 0x80000 by default) and then tells the kernel via either the `readahead` system call (on Linux) or the `posix_fadvise` system call to pre-fetch this data into the buffer cache.

This module is useful for Windows Vista clients reading data using the Windows Explorer program, which asynchronously does multiple file read requests at offset boundaries of 0x80000 bytes.

The offset multiple used is given by the `readahead:offset` option, which defaults to 0x80000.

The size of the disk read operations performed by `vfs_readahead` is determined by the `readahead:length` option. By default this is set to the same value as the `readahead:offset` option and if not set explicitly will use the current value of `readahead:offset`.

This module is stackable.

**OPTIONS**

`readahead:offset = BYTES`

The offset multiple that causes `readahead` to be requested of the kernel buffer cache.

`readahead:length = BYTES`

The number of bytes requested to be read into the kernel buffer cache on each `readahead` call.

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

*[hypothetical]*

**vfs objects = readahead**

## 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.