Rocky Enterprise Linux 9.2 Manual Pages on command 'sync.2'

C:\>man sync.2

SYNC(2) Linux Programmer's Manual SYNC(2)

NAME

sync, syncfs - commit filesystem caches to disk

SYNOPSIS

#include <unistd.h>

void sync(void);

int syncfs(int fd);

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

sync():

_XOPEN_SOURCE >= 500

|| /* Since glibc 2.19: */ _DEFAULT_SOURCE

|| /* Glibc versions <= 2.19: */ _BSD_SOURCE

syncfs():

_GNU_SOURCE

DESCRIPTION

sync() causes all pending modifications to filesystem metadata and cached file data

to be written to the underlying filesystems.

syncfs() is like sync(), but synchronizes just the filesystem containing file re?

ferred to by the open file descriptor fd.

RETURN VALUE

syncfs() returns 0 on success; on error, it returns -1 and sets errno to indicate

the error.

ERRORS

sync() is always successful.

syncfs() can fail for at least the following reason:

EBADF fd is not a valid file descriptor.

VERSIONS

syncfs() first appeared in Linux 2.6.39; library support was added to glibc in ver?

sion 2.14.

CONFORMING TO

sync(): POSIX.1-2001, POSIX.1-2008, SVr4, 4.3BSD.

syncfs() is Linux-specific.

NOTES

Since glibc 2.2.2, the Linux prototype for sync() is as listed above, following the

various standards. In glibc 2.2.1 and earlier, it was "int sync(void)", and sync()

always returned 0.

According to the standard specification (e.g., POSIX.1-2001), sync() schedules the

writes, but may return before the actual writing is done. However Linux waits for

I/O completions, and thus sync() or syncfs() provide the same guarantees as fsync

called on every file in the system or filesystem respectively.

BUGS

Before version 1.3.20 Linux did not wait for I/O to complete before returning.

SEE ALSO

sync(1), fdatasync(2), fsync(2)

COLOPHON

This page is part of release 5.05 of the Linux man-pages project. A description of

the project, information about reporting bugs, and the latest version of this page,

can be found at https://www.kernel.org/doc/man-pages/.

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