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 referred 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 version 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

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