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)):

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

This page is part of release 4.09 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/.



Linux 2016-03-15 1