



**Full credit is given to the above companies including the Operating System (OS) that this PDF file was generated!**

### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'syncfs.2'***

**\$ man syncfs.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 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.

ror.

ERRORS

sync() is always successful.

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

EBADF fd is not a valid file descriptor.

EIO An error occurred during synchronization. This error may relate to data written to any file on the filesystem, or on metadata related to the filesystem itself.

ENOSPC Disk space was exhausted while synchronizing.

ENOSPC, EDQUOT

Data was written to a files on NFS or another filesystem which does not allocate space at the time of a write(2) system call, and some previous write failed due to insufficient storage space.

## 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.

In mainline kernel versions prior to 5.8, syncfs() will fail only when passed a bad file descriptor (EBADF). Since Linux 5.8, syncfs() will also report an error if one or more inodes failed to be written back since the last syncfs() call.

## 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 5.10 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

2020-08-13

SYNC(2)