NAME

sync, syncfs - commit filesystem caches to disk

SYNOPSIS

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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