

## NAME

`futimesat` - change timestamps of a file relative to a directory file descriptor

## SYNOPSIS

```
#include <fcntl.h> /* Definition of AT_* constants */
#include <sys/time.h>
```

```
int futimesat(int dirfd, const char *pathname,
              const struct timeval times[2]);
```

Feature Test Macro Requirements for glibc (see [feature\\_test\\_macros\(7\)](#)):

```
futimesat(): _GNU_SOURCE
```

## DESCRIPTION

This system call is obsolete. Use [utimensat\(2\)](#) instead.

The `futimesat()` system call operates in exactly the same way as [utimes\(2\)](#), except for the differences described in this manual page.

If the *pathname* given in *pathname* is relative, then it is interpreted relative to the directory referred to by the file descriptor *dirfd* (rather than relative to the current working directory of the calling process, as is done by [utimes\(2\)](#) for a relative *pathname*).

If *pathname* is relative and *dirfd* is the special value `AT_FDCWD`, then *pathname* is interpreted relative to the current working directory of the calling process (like [utimes\(2\)](#)).

If *pathname* is absolute, then *dirfd* is ignored.

## RETURN VALUE

On success, `futimesat()` returns a 0. On error, -1 is returned and *errno* is set to indicate the error.

## ERRORS

The same errors that occur for [utimes\(2\)](#) can also occur for `futimesat()`. The following additional errors can occur for `futimesat()`:

### EBADF

*dirfd* is not a valid file descriptor.

### ENOTDIR

*pathname* is relative and *dirfd* is a file descriptor referring to a file other than a directory.

## VERSIONS

`futimesat()` was added to Linux in kernel 2.6.16; library support was added to glibc in version 2.4.

## CONFORMING TO

This system call is nonstandard. It was implemented from a specification that was proposed for POSIX.1, but that specification was replaced by the one for [utimensat\(2\)](#).

A similar system call exists on Solaris.

## NOTES

### Glibc notes

If *pathname* is NULL, then the glibc `futimesat()` wrapper function updates the times for the file referred to by *dirfd*.

## SEE ALSO

[stat\(2\)](#), [utimensat\(2\)](#), [utimes\(2\)](#), [futimes\(3\)](#), [path\\_resolution\(7\)](#)

## COLOPHON

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