



Linux Ubuntu 26.04 Manual Pages on command 'canonicalize_file_name.3'

\$ man canonicalize_file_name.3

canonicalize_file_name(3) Library Functions Manual canonicalize_file_name(3)

NAME

canonicalize_file_name - return the canonicalized absolute pathname

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#define _GNU_SOURCE      /* See feature_test_macros(7) */
```

```
#include <stdlib.h>
```

```
char *canonicalize_file_name(const char *path);
```

DESCRIPTION

The canonicalize_file_name() function returns a null-terminated string containing the canonicalized absolute pathname corresponding to path. In the returned string, symbolic links are resolved, as are . and .. pathname components. Consecutive slash (/) characters are replaced by a single slash.

The returned string is dynamically allocated by canonicalize_file_name() and the caller should deallocate it with free(3) when it is no longer required.

The call canonicalize_file_name(path) is equivalent to the call:

```
realpath(path, NULL);
```

RETURN VALUE

On success, canonicalize_file_name() returns a null-terminated string. On error (e.g., a pathname component is unreadable or does not exist), canonicalize_file_name() returns NULL and sets errno to indicate the error.

ERRORS

See realpath(3).

ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

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? Interface ? Attribute ? Value ?

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? canonicalize_file_name() ? Thread safety ? MT-Safe ?

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STANDARDS

GNU.

SEE ALSO

readlink(2), realpath(3)

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