



## ***Linux Ubuntu 26.04 Manual Pages on command 'lookup\_dcookie.2'***

### ***\$ man lookup\_dcookie.2***

lookup\_dcookie(2)                      System Calls Manual                      lookup\_dcookie(2)

#### NAME

lookup\_dcookie - return a directory entry's path

#### LIBRARY

Standard C library (libc, -lc)

#### SYNOPSIS

```
#include <sys/syscall.h>     /* Definition of SYS_* constants */
#include <unistd.h>

int syscall(size_t size;
            SYS_lookup_dcookie, uint64_t cookie, char buffer[size],
            size_t size);
```

Note: glibc provides no wrapper for lookup\_dcookie(), necessitating the use of syscall(2).

#### DESCRIPTION

Look up the full path of the directory entry specified by the value cookie. The cookie is an opaque identifier uniquely identifying a particular directory entry. The buffer given is filled in with the full path of the directory entry.

For lookup\_dcookie() to return successfully, the kernel must still hold a cookie reference to the directory entry.

#### RETURN VALUE

On success, lookup\_dcookie() returns the length of the path string copied into the buffer.

On error, -1 is returned, and errno is set to indicate the error.

#### ERRORS

EFAULT The buffer was not valid.

EINVAL The kernel has no registered cookie/directory entry mappings at the time of lookup, or the cookie does not refer to a valid directory entry.

#### ENAMETOOLONG

The name could not fit in the buffer.

ENOMEM The kernel could not allocate memory for the temporary buffer holding the path.

EPERM The process does not have the capability CAP\_SYS\_ADMIN required to look up cookie values.

ERANGE The buffer was not large enough to hold the path of the directory entry.

#### STANDARDS

Linux.

#### HISTORY

Linux 2.5.43.

The ENAMETOOLONG error was added in Linux 2.5.70.

#### NOTES

lookup\_dcookie() is a special-purpose system call, currently used only by the oprofile(1) profiler. It relies on a kernel driver to register cookies for directory entries.

The path returned may be suffixed by the string " (deleted)" if the directory entry has been removed.

#### SEE ALSO

oprofile(1)

Linux man-pages 6.17

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