NAME

keyctl - manipulate the kernel's key management facility

SYNOPSIS

#include <keyutils.h>

long keyctl(int cmd, ...);

DESCRIPTION

keyctl() has a number of functions available:

KEYCTL GET KEYRING ID

Ask for a keyring's ID.

KEYCTL JOIN SESSION KEYRING

Join or start named session keyring.

KEYCTL UPDATE

Update a key.

KEYCTL REVOKE

Revoke a key.

KEYCTL CHOWN

Set ownership of a key.

KEYCTL SETPERM

Set perms on a key.

KEYCTL DESCRIBE

Describe a key.

KEYCTL CLEAR

Clear contents of a keyring.

KEYCTL LINK

Link a key into a keyring.

KEYCTL UNLINK

Unlink a key from a keyring.

KEYCTL SEARCH

Search for a key in a keyring.

${\bf KEYCTL_READ}$

Read a key or keyring's contents.

KEYCTL INSTANTIATE

Instantiate a partially constructed key.

KEYCTL NEGATE

Negate a partially constructed key.

KEYCTL SET REQKEY KEYRING

Set default request-key keyring.

KEYCTL_SET_TIMEOUT

Set timeout on a key.

KEYCTL ASSUME AUTHORITY

Assume authority to instantiate key.

These are wrapped by **libkeyutils** into individual functions to permit compiler the compiler to check types. See the **See Also** section at the bottom.

RETURN VALUE

On success **keyctl**() returns the serial number of the key it found. On error, the value -1 will be returned and errno will have been set to an appropriate error.

ERRORS

EACCES

A key operation wasn't permitted.

EDQUOT

The key quota for the caller's user would be exceeded by creating a key or linking it to the keyring.

EKEYEXPIRED

An expired key was found or specified.

EKEYREJECTED

A rejected key was found or specified.

EKEYREVOKED

A revoked key was found or specified.

ENOKEY

No matching key was found or an invalid key was specified.

LINKING

Although this is a Linux system call, it is not present in *libc* but can be found rather in *libkeyu-tils*. When linking,-lk eyutils should be specified to the linker.

SEE ALSO

```
keyctl(1), add_key(2), request_key(2), keyctl_set_timeout(3), keyctl_chown(3), keyctl_clear(3), keyctl_describe(3), keyctl_describe_alloc(3), keyctl_get_keyring_ID(3), keyctl_instantiate(3), keyctl_join_session_keyring(3), keyctl_link(3), keyctl_negate(3), keyctl_revoke(3), keyctl_search(3), keyctl_set_perm(3), keyctl_set_reqkey_keyring(3), keyctl_set_timeout(3), keyctl_read(3), keyctl_read_alloc(3), keyctl_unlink(3), keyctl_update(3), request-key(8)
```

The kernel source file Documentation/security/keys.txt.

COLOPHON

This page is part of release 3.74 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 http://www.kernel.org/doc/man-pages/.