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Rocky Enterprise Linux 9.2 Manual Pages on command 'catopen.3'

\$ man catopen.3

CATOPEN(3) Linux Programmer's Manual CATOPEN(3)

NAME

catopen, catclose - open/close a message catalog

SYNOPSIS

```
#include <nl_types.h>

nl_catd catopen(const char *name, int flag);

int catclose(nl_catd catalog);
```

DESCRIPTION

The function `catopen()` opens a message catalog and returns a catalog descriptor. The descriptor remains valid until `catclose()` or `execve(2)`. If a file descriptor is used to implement catalog descriptors, then the `FD_CLOEXEC` flag will be set.

The argument `name` specifies the name of the message catalog to be opened. If `name` specifies an absolute path (i.e., contains a '/'), then `name` specifies a pathname for the message catalog. Otherwise, the environment variable `NLSPATH` is used with `name` substituted for `%N` (see `locale(7)`). It is unspecified whether `NLSPATH` will be used when the process has root privileges. If `NLSPATH` does not exist in the environment, or if a message catalog cannot be opened in any of the paths specified by it, then an implementation defined path is used. This latter default path may depend on the `LC_MESSAGES` locale setting when the flag argument is `NL_CAT_LOCALE` and on the `LANG` environment variable when the flag argument is 0. Changing the `LC_MESSAGES` part of the locale may invalidate open catalog descriptors.

The flag argument to `catopen()` is used to indicate the source for the language to use. If it is set to `NL_CAT_LOCALE`, then it will use the current locale setting for `LC_MESSAGES`.

Otherwise, it will use the LANG environment variable.

The function catclose() closes the message catalog identified by catalog. It invalidates any subsequent references to the message catalog defined by catalog.

RETURN VALUE

The function catopen() returns a message catalog descriptor of type nl_catd on success.

On failure, it returns (nl_catd) -1 and sets errno to indicate the error. The possible error values include all possible values for the open(2) call.

The function catclose() returns 0 on success, or -1 on failure.

ENVIRONMENT

LC_MESSAGES

May be the source of the LC_MESSAGES locale setting, and thus determine the language to use if flag is set to NL_CAT_LOCALE.

LANG The language to use if flag is 0.

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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?catopen() ? Thread safety ? MT-Safe env ?

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

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CONFORMING TO

POSIX.1-2001, POSIX.1-2008.

NOTES

The above is the POSIX.1 description. The glibc value for NL_CAT_LOCALE is 1. The default fault path varies, but usually looks at a number of places below /usr/share/locale.

SEE ALSO

catgets(3), setlocale(3)

COLOPHON

This page is part of release 5.10 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 <https://www.kernel.org/doc/man-pages/>.

