

NAME

nl_langinfo - language information

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <langinfo.h>
```

```
char *
```

```
nl_langinfo(nl_item item);
```

```
char *
```

```
nl_langinfo_l(nl_item item, locale_t loc);
```

DESCRIPTION

The **nl_langinfo**() function returns a pointer to a string containing information relevant to the particular language or cultural area defined in the program or thread's locale, or in the case of **nl_langinfo_l**(), the locale passed as the second argument.

Calls to **setlocale**() with a category corresponding to the category of *item*, or to the category LC_ALL, may overwrite the buffer pointed to by the return value.

The manifest constant names and values of *item* are defined in *<langinfo.h>*.

The following standard constants are recognized:

| Constant | Category | Description |
|------------|----------|-------------------------------------|
| CODESET | LC_CTYPE | codeset name |
| D_T_FMT | LC_TIME | string for formatting date and time |
| D_FMT | LC_TIME | date format string |
| T_FMT | LC_TIME | time format string |
| T_FMT_AMPM | LC_TIME | a.m. or p.m. time format string |
| AM_STR | LC_TIME | ante-meridiem affix |
| PM_STR | LC_TIME | post-meridiem affix |
| DAY_1 | LC_TIME | name of the first day of the week |

DAY_2 LC_TIME name of the second day of the week
DAY_3 LC_TIME name of the third day of the week
DAY_4 LC_TIME name of the fourth day of the week
DAY_5 LC_TIME name of the fifth day of the week
DAY_6 LC_TIME name of the sixth day of the week
DAY_7 LC_TIME name of the seventh day of the week
ABDAY_1
LC_TIME abbreviated name of the first day of the week
ABDAY_2
LC_TIME abbreviated name of the second day of the week
ABDAY_3
LC_TIME abbreviated name of the third day of the week
ABDAY_4
LC_TIME abbreviated name of the fourth day of the week
ABDAY_5
LC_TIME abbreviated name of the fifth day of the week
ABDAY_6
LC_TIME abbreviated name of the sixth day of the week
ABDAY_7
LC_TIME abbreviated name of the seventh day of the week
MON_1 LC_TIME name of the first month of the year
MON_2 LC_TIME name of the second month
MON_3 LC_TIME name of the third month
MON_4 LC_TIME name of the fourth month
MON_5 LC_TIME name of the fifth month
MON_6 LC_TIME name of the sixth month
MON_7 LC_TIME name of the seventh month
MON_8 LC_TIME name of the eighth month
MON_9 LC_TIME name of the ninth month
MON_10 LC_TIME name of the tenth month
MON_11 LC_TIME name of the eleventh month
MON_12 LC_TIME name of the twelfth month
ABMON_1
LC_TIME abbreviated name of the first month
ABMON_2
LC_TIME abbreviated name of the second month
ABMON_3
LC_TIME abbreviated name of the third month
ABMON_4
LC_TIME abbreviated name of the fourth month

ABMON_5

LC_TIME abbreviated name of the fifth month

ABMON_6

LC_TIME abbreviated name of the sixth month

ABMON_7

LC_TIME abbreviated name of the seventh month

ABMON_8

LC_TIME abbreviated name of the eighth month

ABMON_9

LC_TIME abbreviated name of the ninth month

ABMON_10

LC_TIME abbreviated name of the tenth month

ABMON_11

LC_TIME abbreviated name of the eleventh month

ABMON_12

LC_TIME abbreviated name of the twelfth month

ERA LC_TIME era description segments

ERA_D_FMT

LC_TIME era date format string

ERA_D_T_FMT

LC_TIME era date and time format string

ERA_T_FMT

LC_TIME era time format string

ALT_DIGITS

LC_TIME alternative symbols for digits

RADIXCHAR

LC_NUMERIC

radix character

THOUSEP

LC_NUMERIC

separator for thousands

YESEXPR

LC_MESSAGES

affirmative response extended regular expression

NOEXPR LC_MESSAGES

negative response extended regular expression

CRNCYSTR

LC_MONETARY

local currency symbol, preceded by '-' if the symbol should appear before the value, '+' if the symbol should appear after the value, or '.' if the symbol should

replace the radix character; if the local currency symbol is the empty string, implementations may return the empty string ("")

The following non-standard FreeBSD extensions are recognized:

Constant Category Description

D_MD_ORDER

LC_TIME month/day order

ALTMON_1

LC_TIME standalone name of the first month

ALTMON_2

LC_TIME standalone name of the second month

ALTMON_3

LC_TIME standalone name of the third month

ALTMON_4

LC_TIME standalone name of the fourth month

ALTMON_5

LC_TIME standalone name of the fifth month

ALTMON_6

LC_TIME standalone name of the sixth month

ALTMON_7

LC_TIME standalone name of the seventh month

ALTMON_8

LC_TIME standalone name of the eighth month

ALTMON_9

LC_TIME standalone name of the ninth month

ALTMON_10

LC_TIME standalone name of the tenth month

ALTMON_11

LC_TIME standalone name of the eleventh month

ALTMON_12

LC_TIME standalone name of the twelfth month

YESSTR LC_MESSAGES

affirmative response string

NOSTR LC_MESSAGES

negative response string

RETURN VALUES

In a locale where langinfo data is not defined, **nl_langinfo()** returns a pointer to the corresponding string in the POSIX locale. **nl_langinfo_l()** returns the same values as **nl_langinfo()**. In all locales,

nl_langinfo() returns a pointer to an empty string if *item* contains an invalid setting.

EXAMPLES

For example:

```
nl_langinfo(ABDAY_1)
```

would return a pointer to the string "Dom" if the identified language was Portuguese, and "Sun" if the identified language was English.

SEE ALSO

setlocale(3)

STANDARDS

The **nl_langinfo()** function conforms to Version 2 of the Single UNIX Specification ("SUSv2"). The **nl_langinfo_l()** function conforms to IEEE Std 1003.1-2008 ("POSIX.1").

HISTORY

The **nl_langinfo()** function first appeared in FreeBSD 4.6.