



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

\$ man closelog.3

syslog(3) Library Functions Manual syslog(3)

NAME

closelog, openlog, syslog, vsyslog - send messages to the system logger

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <syslog.h>
```

```
void openlog(const char *ident, int option, int facility);
```

```
void syslog(int priority, const char *format, ...);
```

```
void closelog(void);
```

```
void vsyslog(int priority, const char *format, va_list ap);
```

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

vsyslog():

Since glibc 2.19:

```
_DEFAULT_SOURCE
```

glibc 2.19 and earlier:

```
_BSD_SOURCE
```

DESCRIPTION

openlog()

openlog() opens a connection to the system logger for a program.

The string pointed to by ident is prepended to every message, and is typically set to the program name. If ident is NULL, the program name is used. (POSIX.1-2008 does not specify the behavior when ident is NULL.)

The `option` argument specifies flags which control the operation of `openlog()` and subsequent calls to `syslog()`. The `facility` argument establishes a default to be used if none is specified in subsequent calls to `syslog()`. The values that may be specified for `option` and `facility` are described below.

The use of `openlog()` is optional; it will automatically be called by `syslog()` if necessary, in which case `ident` will default to `NULL`.

`syslog()` and `vsyslog()`

`syslog()` generates a log message, which will be distributed by `syslogd(8)`.

The priority argument is formed by ORing together a facility value and a level value (described below). If no facility value is ORed into priority, then the default value set by `openlog()` is used, or, if there was no preceding `openlog()` call, a default of `LOG_USER` is employed.

The remaining arguments are a format, as in `printf(3)`, and any arguments required by the format, except that the two-character sequence `%m` will be replaced by the error message string `strerror(errno)`. The format string need not include a terminating newline character.

The function `vsyslog()` performs the same task as `syslog()` with the difference that it takes a set of arguments which have been obtained using the `stdarg(3)` variable argument list macros.

`closelog()`

`closelog()` closes the file descriptor being used to write to the system logger. The use of `closelog()` is optional.

Values for `option`

The `option` argument to `openlog()` is a bit mask constructed by ORing together any of the following values:

`LOG_CONS` Write directly to the system console if there is an error while sending to the system logger.

`LOG_NDELAY` Open the connection immediately (normally, the connection is opened when the first message is logged). This may be useful, for example, if a subsequent `chroot(2)` would make the pathname used internally by the logging facility unreachable.

`LOG_NOWAIT` Don't wait for child processes that may have been created while logging the message. (The GNU C library does not create a child process, so this option has no effect on Linux.)

LOG_ODELAY The converse of LOG_NDELAY; opening of the connection is delayed until sys?

log() is called. (This is the default, and need not be specified.)

LOG_ERROR (Not in POSIX.1-2001 or POSIX.1-2008.) Also log the message to stderr.

LOG_PID Include the caller's PID with each message.

Values for facility

The facility argument is used to specify what type of program is logging the message. This lets the configuration file specify that messages from different facilities will be handled differently.

LOG_AUTH security/authorization messages

LOG_AUTHPRIV security/authorization messages (private)

LOG_CRON clock daemon (cron and at)

LOG_DAEMON system daemons without separate facility value

LOG_FTP ftp daemon

LOG_KERN kernel messages (these can't be generated from user processes)

LOG_LOCAL0 through LOG_LOCAL7

reserved for local use

LOG_LPR line printer subsystem

LOG_MAIL mail subsystem

LOG_NEWS USENET news subsystem

LOG_SYSLOG messages generated internally by syslogd(8)

LOG_USER (default)

generic user-level messages

LOG_UUCP UUCP subsystem

Values for level

This determines the importance of the message. The levels are, in order of decreasing importance:

LOG_EMERG system is unusable

LOG_ALERT action must be taken immediately

LOG_CRIT critical conditions

LOG_ERR error conditions

LOG_WARNING warning conditions

LOG_NOTICE normal, but significant, condition

LOG_INFO informational message

The function `setlogmask(3)` can be used to restrict logging to specified levels only.

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

STANDARDS

HISTORY

POSIX.1-2001 specifies only the LOG_USER and LOG_LOCAL* values for facility. However, with the exception of LOG_AUTHPRIV and LOG_FTP, the other facility values appear on most UNIX systems.

NOTES

Page 4/5

it points to is changed, syslog() may start prepending the changed string, and if the string it points to ceases to exist, the results are undefined. Most portable is to use a string constant.

Never pass a string with user-supplied data as a format, use the following instead:

```
syslog(priority, "%s", string);
```

SEE ALSO

journalctl(1), logger(1), setlogmask(3), syslog.conf(5), syslogd(8)

Linux man-pages 6.17

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syslog(3)