



Full credit is given to the above companies including the OS that this PDF file was generated!

Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sem_unlink.3p' command

\$ man sem_unlink.3p

SEM_UNLINK(3P) POSIX Programmer's Manual SEM_UNLINK(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

sem_unlink ? remove a named semaphore

SYNOPSIS

```
#include <semaphore.h>

int sem_unlink(const char *name);
```

DESCRIPTION

The `sem_unlink()` function shall remove the semaphore named by the string `name`. If the semaphore named by `name` is currently referenced by other processes, then `sem_unlink()` shall have no effect on the state of the semaphore. If one or more processes have the semaphore open when `sem_unlink()` is called, destruction of the semaphore is postponed until all references to the semaphore have been destroyed by calls to `sem_close()`, `_exit()`, or `exec`. Calls to `sem_open()` to recreate or re-connect to the semaphore refer to a new semaphore after `sem_unlink()` is called. The `sem_unlink()` call shall not block until all references have been destroyed; it shall return immediately.

RETURN VALUE

Upon successful completion, the `sem_unlink()` function shall return a value of 0. Otherwise, the semaphore shall not be changed and the function shall return a value of -1 and set `errno` to indicate the error.

ERRORS

The `sem_unlink()` function shall fail if:

`EACCES` Permission is denied to unlink the named semaphore.

`ENOENT` The named semaphore does not exist.

The `sem_unlink()` function may fail if:

ENAMETOOLONG

The length of the name argument exceeds `{_POSIX_PATH_MAX}` on systems that do not support the XSI option or exceeds `{_XOPEN_PATH_MAX}` on XSI systems, or has a pathname component that is longer than `{_POSIX_NAME_MAX}` on systems that do not support the XSI option or longer than `{_XOPEN_NAME_MAX}` on XSI systems. A call to `sem_unlink()` with a name argument that contains the same semaphore name as was previously used in a successful `sem_open()` call shall not give an `[ENAMETOOLONG]` error.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

A future version might require the `sem_open()` and `sem_unlink()` functions to have semantics similar to normal file system operations.

SEE ALSO

`semctl()`, `semget()`, `semop()`, `sem_close()`, `sem_open()`

The Base Definitions volume of POSIX.1-2017, `<semaphore.h>`

COPYRIGHT

Portions of this text are reprinted and reproduced in electronic form from IEEE Std 1003.1-2017, Standard for Information Technology -- Portion of IEEE Std 1003.1-2017, Standard for Information Technology --

table Operating System Interface (POSIX), The Open Group Base Specifications Issue 7, 2018 Edition, Copyright (C) 2018 by the Institute of Electrical and Electronics Engineers, Inc and The Open Group. In the event of any discrepancy between this version and the original IEEE and The Open Group Standard, the original IEEE and The Open Group Standard is the referee document. The original Standard can be obtained online at <http://www.opengroup.org/unix/online.html> .

Any typographical or formatting errors that appear in this page are most likely to have been introduced during the conversion of the source files to man page format. To report such errors, see https://www.kernel.org/doc/man-pages/reporting_bugs.html .

IEEE/The Open Group

2017

SEM_UNLINK(3P)