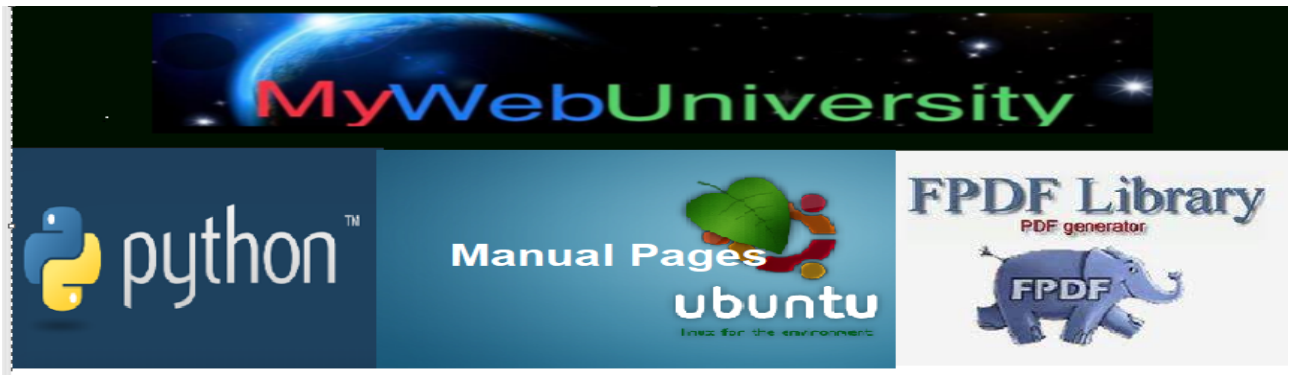

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Linux Ubuntu 26.04 Manual Pages on command 'netlink.3'

$ man netlink.3

netlink(3) Library Functions Manual netlink(3)

NAME

netlink - Netlink macros

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <asm/types.h>

#include <linux/netlink.h>

int NLMSG_ALIGN(size_t size);

int NLMSG_LENGTH(size_t size);

int NLMSG_SPACE(size_t size);

void *NLMSG_DATA(struct nlmsghdr *nlh);

struct nlmsghdr *NLMSG_NEXT(struct nlmsghdr *nlh, int size);

int NLMSG_OK(struct nlmsghdr *nlh, int size);

int NLMSG_PAYLOAD(struct nlmsghdr *nlh, int size);
```

DESCRIPTION

<linux/netlink.h> defines several standard macros to access or create a netlink datagram. They are similar in spirit to the macros defined in cmsg(3) for auxiliary data. The buffer passed to and from a netlink socket should be accessed using only these macros.

NLMSG_ALIGN()

Round the size of a netlink message up to align it properly.

NLMSG_LENGTH()

Given the payload size, size, this macro returns the aligned size to store in the

nlmsg_len field of the nlmsghdr.

NLMSG_SPACE()

Return the number of bytes that a netlink message with payload of size would occupy.

NLMSG_DATA()

Return a pointer to the payload associated with the passed nlmsghdr.

NLMSG_NEXT()

Get the next nlmsghdr in a multipart message. The caller must check if the current nlmsghdr didn't have the NLMSG_DONE set?this function doesn't return NULL on end. The size argument is an lvalue containing the remaining size of the message buffer. This macro decrements it by the size of the message header.

NLMSG_OK()

Return true if the netlink message is not truncated and is in a form suitable for parsing.

NLMSG_PAYLOAD()

Return the size of the payload associated with the nlmsghdr.

VERSIONS

It is often better to use netlink via libnetlink than via the low-level kernel interface.

STANDARDS

Linux.

SEE ALSO

libnetlink(3), netlink(7)