NAME

netlink - Netlink macros

SYNOPSIS

```
#include <asm/types.h>
#include #include #include | finux/netlink.h>

int NLMSG_ALIGN(size_t len);
int NLMSG_LENGTH(size_t len);
int NLMSG_SPACE(size_t len);
void *NLMSG_DATA(struct nlmsghdr *nlh);
struct nlmsghdr *NLMSG_NEXT(struct nlmsghdr *nlh, int len);
int NLMSG_OK(struct nlmsghdr *nlh, int len);
int NLMSG_PAYLOAD(struct nlmsghdr *nlh, int len);
```

DESCRIPTION

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NLMSG_ALIGN()

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

NLMSG_LENGTH()

Given the payload length, *len*, this macro returns the aligned length to store in the *nlmsg_len* field of the *nlmsghdr*.

NLMSG SPACE()

Return the number of bytes that a netlink message with payload of len 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 *len* argument is an Ivalue containing the remaining length of the message buffer. This macro decrements it by the length 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 length of the payload associated with the *nlmsghdr*.

CONFORMING TO

These macros are nonstandard Linux extensions.

NOTES

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

SEE ALSO

libnetlink(3), netlink(7)

COLOPHON

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