

NAME

rdma_post_send - post a work request to send a message.

SYNOPSIS

```
#include <rdma/rdma_verbs.h>
```

```
int rdma_post_send (struct rdma_cm_id *id, void *context, void *addr, size_t length, struct ibv_mr *mr, int flags);
```

ARGUMENTS

id A reference to a communication identifier where the message buffer will be posted.

context User-defined context associated with the request.

addr The address of the memory buffer to post.

length The length of the memory buffer.

mr Optional registered memory region associated with the posted buffer.

flags Optional flags used to control the send operation.

DESCRIPTION

Posts a work request to the send queue of the queue pair associated with the `rdma_cm_id`. The contents of the posted buffer will be sent to the remote peer of a connection.

RETURN VALUE

Returns 0 on success, or -1 on error. If an error occurs, `errno` will be set to indicate the failure reason.

NOTES

The user is responsible for ensuring that the remote peer has queued a receive request before issuing the send operations. For a list of supported flags, see `ibv_post_send`. Unless the send request is using inline data, the message buffer must have been registered before being posted, with the `mr` parameter referencing the registration. The buffer must remain registered until the send completes.

Send operations may not be posted to an `rdma_cm_id` or the corresponding queue pair until it has been connected.

The user-defined context associated with the send request will be returned to the user through the work completion `wr_id`, work request identifier, field.

SEE ALSO

rdma_cm(7), rdma_connect(3), rdma_accept(3), ibv_post_send(3), rdma_post_sendv(3),
rdma_post_recv(3)