

NAME

rdma_post_recv - post a work request to receive incoming messages.

SYNOPSIS

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

```
int rdma_post_recv (struct rdma_cm_id *id, void *context, struct ibv_sge *sgl, int nsge);
```

ARGUMENTS

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

context User-defined context associated with the request.

sgl A scatter-gather list of memory buffers posted as a single request.

nsge The number of scatter-gather entries in the sgl array.

DESCRIPTION

Posts a single work request to the receive queue of the queue pair associated with the `rdma_cm_id`. The posted buffers will be queued to receive an incoming message sent by the remote peer.

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 receive is posted, and the total buffer space is large enough to contain all sent data before the peer posts the corresponding send message. The message buffers must have been registered before being posted, and the buffers must remain registered until the receive completes.

Messages may be posted to an `rdma_cm_id` only after a queue pair has been associated with it. A queue pair is bound to an `rdma_cm_id` after calling `rdma_create_ep` or `rdma_create_qp`, if the `rdma_cm_id` is allocated using `rdma_create_id`.

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

SEE ALSO

`rdma_cm(7)`, `rdma_create_id(3)`, `rdma_create_ep(3)`, `rdma_create_qp(3)`, `rdma_reg_read(3)`, `ibv_reg_mr(3)`, `ibv_dereg_mr(3)`, `rdma_post_recv(3)`, `rdma_post_send(3)`