

NAME

rdma_post_readv - post an RDMA read work request.

SYNOPSIS

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

```
int rdma_post_readv (struct rdma_cm_id *id, void *context, struct ibv_sge *sgl, int nsge, int flags,
uint64_t remote_addr, uint32_t rkey);
```

ARGUMENTS

- id A reference to a communication identifier where the request will be posted.
- context User-defined context associated with the request.
- sgl A scatter-gather list of the destination buffers of the read.
- nsge The number of scatter-gather array entries.
- flags Optional flags used to control the read operation.
- remote_addr The address of the remote registered memory to read from.
- rkey The registered memory key associated with the remote address.

DESCRIPTION

Posts a work request to the send queue of the queue pair associated with the rdma_cm_id. The contents of the remote memory region will be read into the local data buffers.

RETURN VALUE

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

NOTES

For a list of supported flags, see `ibv_post_send`. Both the remote and local data buffers must have been registered before the read is issued, and the buffers must remain registered until the read completes.

Read 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 read 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_read(3),
rdma_reg_read(3), rdma_reg_msgs(3)