NAME

ibv_post_recv - post a list of work requests (WRs) to a receive queue

SYNOPSIS

#include <infiniband/verbs.h>

DESCRIPTION

ibv_post_recv() posts the linked list of work requests (WRs) starting with wr to the receive queue of the queue pair qp. It stops processing WRs from this list at the first failure (that can be detected immediately while requests are being posted), and returns this failing WR through bad_wr.

The argument wr is an ibv_recv_wr struct, as defined in <infiniband/verbs.h>.

RETURN VALUE

ibv_post_recv() returns 0 on success, or the value of errno on failure (which indicates the failure reason).

NOTES

The buffers used by a WR can only be safely reused after WR the request is fully executed and a work completion has been retrieved from the corresponding completion queue (CQ).

If the QP qp is associated with a shared receive queue, you must use the function **ibv_post_srq_recv()**, and not **ibv post recv()**, since the QP's own receive queue will not be used.

If a WR is being posted to a UD QP, the Global Routing Header (GRH) of the incoming message will be placed in the first 40 bytes of the buffer(s) in the scatter list. If no GRH is present in the incoming message, then the first bytes will be undefined. This means that in all cases, the actual data of the incoming message will start at an offset of 40 bytes into the buffer(s) in the scatter list.

SEE ALSO

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ibv create qp(3), ibv post send(3), ibv post srq recv(3), ibv poll cq(3)
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