NAME

ibv_open_xrcd, ibv_close_xrcd − open or close an XRC protection domain (XRCDs)

SYNOPSIS

#include <infiniband/verbs.h>

struct ibv_xrcd *ibv_open_xrcd(struct ibv_context **context***,**
            struct ibv_xrcd_init_attr **xrcd_init_attr***);**

int ibv_close_xrcd(struct ibv_xrcd **xrcd***);**

DESCRIPTION

ibv_open_xrcd() open an XRC domain for the RDMA device context *context xrcd_init_attr* is an ibv_xrcd_init_attr struct, as defined in <infiniband/verbs.h>.

struct ibv_xrcd_init_attr {
                uint32_t   comp_mask; /* Identifies valid fields */
                int   fd;
                int   oflag;

fd is the file descriptor to associate with the XRCD. *oflag* describes the desired creation attributes. It is a bitwise OR of zero or more of the following flags:

O_CREAT

Indicates that an XRCD should be created and associated with the inode referenced by the given fd. If the XRCD exists, this flag has no effect except as noted under **O_EXCL** below.

O_EXCL

If **O_EXCL** and **O_CREAT** are set, open will fail if an XRCD associated with the inode exists.

If *fd* equals -1, no inode is associated with the XRCD. To indicate that XRCD should be created, use *oflag* = **O_CREAT**.

ibv_close_xrcd() closes the XRCD *xrcd*. If this is the last reference, the XRCD will be destroyed.

RETURN VALUE

ibv_open_xrcd() returns a pointer to the opened XRCD, or NULL if the request fails.

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

NOTES

ibv_close_xrcd() may fail if any other resource is still associated with the XRCD being closed.

SEE ALSO

ibv_create_srq_ex(3), **ibv_create_qp_ex**(3),

AUTHORS

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