NAME

ibv_create_srq, ibv_destroy_srq - create or destroy a shared receive queue (SRQ)

SYNOPSIS

#include <infiniband/verbs.h>

struct ibv_srq *ibv_create_srq(struct ibv_pd **pd***, struct ibv_srq_init_attr** **srq_init_attr***);**

int ibv_destroy_srq(struct ibv_srq **srq***);**

DESCRIPTION

ibv_create_srq() creates a shared receive queue (SRQ) associated with the protection domain *pd*. The argument *srq_init_attr* is an ibv_srq_init_attr struct, as defined in <infiniband/verbs.h>.

```
struct ibv_srq_init_attr {
        void            *srq_context;   /* Associated context of the SRQ */
        struct ibv_srq_attr    attr;         /* SRQ attributes */
};

struct ibv_srq_attr {
        uint32_t        max_wr;      /* Requested max number of outstanding work requests (WRs) in the SRQ *
        uint32_t        max_sge;      /* Requested max number of scatter elements per WR */
        uint32_t        srq_limit;    /* The limit value of the SRQ (irrelevant for ibv_create_srq) */
};
```

The function **ibv_create_srq()** will update the *srq_init_attr* struct with the original values of the SRQ that was created; the values of max_wr and max_sge will be greater than or equal to the values requested.

ibv_destroy_srq() destroys the SRQ *srq*.

RETURN VALUE

ibv_create_srq() returns a pointer to the created SRQ, or NULL if the request fails.

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

NOTES

ibv_destroy_srq() fails if any queue pair is still associated with this SRQ.

SEE ALSO

    ibv_alloc_pd(3), **ibv_modify_srq**(3), **ibv_query_srq**(3)

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