## 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
        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)

## AUTHORS

Dotan Barak <dotanba@gmail.com>