

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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