#### **NAME**

ibv\_create\_wq, ibv\_destroy\_wq - create or destroy a Work Queue (WQ).

#### **SYNOPSIS**

```
#include <infiniband/verbs_exp.h>
```

int ibv\_destroy\_wq(struct ibv\_wq \*wq);

# **DESCRIPTION**

**ibv\_create\_wq()** creates a WQ associated with the ibv\_context *context*. The argument *wq\_init\_attr* is an ibv\_wq\_init\_attr struct, as defined in <infiniband/verbs.h>.

```
struct ibv_wq_init_attr {
                                 *wq_context; /* Associated context of the WQ */
                 void
                 enum ibv_wq_type
                                       wq_type; /* WQ type */
                                  max_wr;
                                             /* Requested max number of outstanding WRs in the WQ */
                 uint32_t
                                             /* Requested max number of scatter/gather (s/g) elements per WR i
                 uint32_t
                                  max_sge;
                 struct ibv_pd
                                  *pd;
                                             /* PD to be associated with the WQ */
                 struct ibv_cq
                                   *cq;
                                             /* CQ to be associated with the WQ */
                                  comp_mask; /* Identifies valid fields. Use ibv_wq_init_attr_mask */
                 uint32_t
                                  create_flags /* Creation flags for this WQ, use enum ibv_wq_flags */
                 uint32_t
};
enum ibv_wq_flags {
                 IBV_WQ_FLAGS_CVLAN_STRIPPING = 1 << 0, /* CVLAN field will be stripped from inc
                 IBV_WQ_FLAGS_SCATTER_FCS
                                                         = 1 << 1, /* FCS field will be scattered to host memory
                 IBV_WQ_FLAGS_DELAY_DROP = 1 << 2, /* Packets won't be dropped immediately if r
                 IBV_WQ_FLAGS_PCI_WRITE_END_PADDING = 1 << 3, /* Incoming packets will be padded
                 IBV_WQ_FLAGS_RESERVED
                                                       = 1 << 4,
```

The function **ibv\_create\_wq()** will update the  $wq\_init\_attr->max\_wr$  and  $wq\_init\_attr->max\_sge$  fields with the actual WQ values of the WQ that was created; the values will be greater than or equal to the values requested.

ibv\_destroy\_wq() destroys the WQ wq.

### **RETURN VALUE**

**}**;

ibv\_create\_wq() returns a pointer to the created WQ, or NULL if the request fails.

**ibv\_destroy\_wq()** returns 0 on success, or the value of errno on failure (which indicates the failure reason).

## **SEE ALSO**

```
ibv\_modify\_wq(3),
```

### **AUTHORS**

Yishai Hadas <yishaih@mellanox.com>