

NAME

`ibv_open_qp` - open a shareable queue pair (QP)

SYNOPSIS

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

```
struct ibv_qp *ibv_open_qp(struct ibv_context *context,
                          struct ibv_qp_open_attr *qp_open_attr);
```

DESCRIPTION

`ibv_open_qp()` opens an existing queue pair (QP) associated with the extended protection domain *xrcd*. The argument *qp_open_attr* is an `ibv_qp_open_attr` struct, as defined in `<infiniband/verbs.h>`.

```
struct ibv_qp_open_attr {
    uint32_t    comp_mask; /* Identifies valid fields */
    uint32_t    qp_num; /* QP number */
    struct      *ibv_xrcd; /* XRC domain */
    void        *qp_context; /* User defined opaque value */
    enum ibv_qp_type qp_type; /* QP transport service type */
};
```

`ibv_destroy_qp()` closes the opened QP and destroys the underlying QP if it has no other references. *qp*.

RETURN VALUE

`ibv_open_qp()` returns a pointer to the opened QP, or NULL if the request fails. Check the QP number (`qp_num`) in the returned QP.

NOTES

`ibv_open_qp()` will fail if it is asked to open a QP that does not exist within the *xrcd* with the specified `qp_num` and `qp_type`.

SEE ALSO

`ibv_alloc_pd(3)`, `ibv_create_qp(3)`, `ibv_create_qp_ex(3)`, `ibv_modify_qp(3)`, `ibv_query_qp(3)`

AUTHORS

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