NAME

ibv_query_port - query an RDMA port's attributes

SYNOPSIS

#include <infiniband/verbs.h>

int ibv_query_port(struct ibv_context *context***, uint8_t** *port_num***,**
        struct ibv_port_attr *port_attr***);**

DESCRIPTION

ibv_query_port() returns the attributes of port *port_num* for device context *context* through the pointer *port_attr*. The argument *port_attr* is an ibv_port_attr struct, as defined in <infiniband/verbs.h>.

```
struct ibv_port_attr {
        enum ibv_port_state    state;        /* Logical port state */
        enum ibv_mtu          max_mtu;       /* Max MTU supported by port */
        enum ibv_mtu          active_mtu;    /* Actual MTU */
        int                   gid_tbl_len;   /* Length of source GID table */
        uint32_t              port_cap_flags; /* Port capabilities */
        uint32_t              max_msg_sz;    /* Maximum message size */
        uint32_t              bad_pkey_cntr; /* Bad P_Key counter */
        uint32_t              qkey_viol_cntr; /* Q_Key violation counter */
        uint16_t              pkey_tbl_len;  /* Length of partition table */
        uint16_t              lid;           /* Base port LID */
        uint16_t              sm_lid;        /* SM LID */
        uint8_t               lmc;           /* LMC of LID */
        uint8_t               max_vl_num;    /* Maximum number of VLs */
        uint8_t               sm_sl;         /* SM service level */
        uint8_t               subnet_timeout; /* Subnet propagation delay */
        uint8_t               init_type_reply;/* Type of initialization performed by SM */
        uint8_t               active_width;  /* Currently active link width */
        uint8_t               active_speed;  /* Currently active link speed */
        uint8_t               phys_state;    /* Physical port state */
        uint8_t               link_layer;    /* link layer protocol of the port */
};
```

possible values for the link layer field are IBV_LINK_LAYER_INFINIBAND, IBV_LINK_LAYER_ETHERNET, or IBV_LINK_LAYER_UNSPECIFIED.

RETURN VALUE

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

SEE ALSO

    ibv_create_qp(3), **ibv_destroy_qp**(3), **ibv_query_qp**(3), **ibv_create_ah**(3)

AUTHORS

    Dotan Barak <dotanba@gmail.com>