NAME

ibv_create_ah, ibv_destroy_ah − create or destroy an address handle (AH)

SYNOPSIS

#include <infiniband/verbs.h>

struct ibv_ah *ibv_create_ah(struct ibv_pd **pd*,
struct ibv_ah_attr **attr*);

int ibv_destroy_ah(struct ibv_ah **ah*);

DESCRIPTION

ibv_create_ah() creates an address handle (AH) associated with the protection domain *pd*. The argument *attr* is an ibv_ah_attr struct, as defined in <infiniband/verbs.h>.

```
struct ibv_ah_attr {
        struct ibv_global_route grh;          /* Global Routing Header (GRH) attributes */
        uint16_t                dlid;         /* Destination LID */
        uint8_t                 sl;           /* Service Level */
        uint8_t                 src_path_bits; /* Source path bits */
        uint8_t                 static_rate;  /* Maximum static rate */
        uint8_t                 is_global;    /* GRH attributes are valid */
        uint8_t                 port_num;     /* Physical port number */
};

struct ibv_global_route {
        union ibv_gid           dgid;         /* Destination GID or MGID */
        uint32_t                flow_label;   /* Flow label */
        uint8_t                 sgid_index;   /* Source GID index */
        uint8_t                 hop_limit;    /* Hop limit */
        uint8_t                 traffic_class; /* Traffic class */
};
```

ibv_destroy_ah() destroys the AH *ah*.

RETURN VALUE

ibv_create_ah() returns a pointer to the created AH, or NULL if the request fails.

NOTES

If port flag IBV_QPF_GRH_REQUIRED is set then **ibv_create_ah()** must be created with definition of 'struct ibv_ah_attr { .is_global = 1; .grh = {...}; }'.

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

SEE ALSO

ibv_alloc_pd(3), **ibv_init_ah_from_wc**(3), **ibv_create_ah_from_wc**(3)

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