

**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.

`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)**

**AUTHORS**

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