

NAME

ibv_create_counters, ibv_destroy_counters – Create or destroy a counters handle

SYNOPSIS

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

struct ibv_counters *
ibv_create_counters(struct ibv_context *context,
                   struct ibv_counters_init_attr *init_attr);

int ibv_destroy_counters(struct ibv_counters *counters);
```

DESCRIPTION

ibv_create_counters() creates a new counters handle for the RDMA device context.

An **ibv_counters** handle can be attached to a verbs resource (e.g.: QP, WQ, Flow) statically when these are created.

For example attach an **ibv_counters** statically to a Flow (struct **ibv_flow**) during creation of a new Flow by calling **ibv_create_flow()**.

Counters are cleared upon creation and values will be monotonically increasing.

ibv_destroy_counters() releases the counters handle, user should detach the counters object before destroying it.

ARGUMENTS

context RDMA device context to create the counters on.

init_attr

Is an **ibv_counters_init_attr** struct, as defined in **verbs.h**.

init_attr **Argument**

```
struct ibv_counters_init_attr {
    int comp_mask;
};
```

comp_mask

Bitmask specifying what fields in the structure are valid.

RETURN VALUE

ibv_create_counters() returns a pointer to the allocated **ibv_counters** object, or NULL if the request fails (and sets **errno** to indicate the failure reason)

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

ERRORS

ENOSYS

ibv_create_counters() is not currently supported on this device

ENOMEM

ibv_create_counters() could not create **ibv_counters** object, not enough memory

EINVAL

invalid parameter supplied **ibv_destroy_counters()**

EXAMPLE

An example of use of **ibv_counters** is shown in **ibv_read_counters**

SEE ALSO

ibv_attach_counters_point_flow, ibv_read_counters, ibv_create_flow

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