NAME

ibv_alloc_parent_domain(), ibv_dealloc_pd() - allocate and deallocate the parent domain object

SYNOPSIS

#include <infiniband/verbs.h>

struct ibv_pd *ibv_alloc_parent_domain(struct ibv_context *context", struct ibv_parent_domain_init_attr *attr);

DESCRIPTION

ibv_alloc_parent_domain() allocates a parent domain object for the RDMA device context context.

The parent domain object extends the normal protection domain with additional objects, such as a thread domain.

A parent domain is completely interchangeable with the *struct ibv_pd* used to create it, and can be used as an input argument to any function accepting a *struct ibv_pd*.

The behavior of each verb may be different if the verb is passed a parent domain *struct ibv_pd* that contains a *struct ibv_td pointer*. For instance the verb my choose to share resources between objects using the same thread domain. The exact behavior is provider dependent.

The attr argument specifies the following:

ibv_dealloc_pd() will deallocate the parent domain as its exposed as an ibv_pd *pd*. All resources created with the parent domain should be destroyed prior to deallocating the parent domain.

RETURN VALUE

ibv_alloc_parent_domain() returns a pointer to the allocated struct *ibv_pd* object, or NULL if the request fails (and sets errno to indicate the failure reason).

SEE ALSO

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ibv_alloc_parent_domain(3), ibv_dealloc_pd(3), ibv_alloc_pd(3), ibv_alloc_td(3)
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