#### **NAME**

ibnd\_discover\_fabric, ibnd\_destroy\_fabric, ibnd\_debug ibnd\_show\_progress - initialize ibnetdiscover library.

#### **SYNOPSIS**

#include <infiniband/ibnetdisc.h>

```
void ibnd_destroy_fabric(ibnd_fabric_t *fabric)
void ibnd_debug(int i)
void ibnd_show_progress(int i)
int ibnd_set_max_smps_on_wire(int i)
```

### DESCRIPTION

**ibnd\_discover\_fabric()** Discover the fabric connected to the port specified by ibmad\_port, using a timeout specified. The "from" and "hops" parameters are optional and allow one to scan part of a fabric by specifying a node "from" and a number of hops away from that node to scan, "hops". This gives the user a "sub-fabric" which is "centered" anywhere they chose.

ibmad\_port must be opened with at least IB\_SMI\_CLASS and IB\_SMI\_DIRECT\_CLASS classes for ibnd\_discover\_fabric to work.

**ibnd\_destroy\_fabric()** free all memory and resources associated with the fabric.

ibnd\_debug() Set the debug level to be printed as library operations take place.

**ibnd\_show\_progress**() Indicate that the library should print debug output which shows it's progress through the fabric.

**ibnd\_set\_max\_smps\_on\_wire()** Set the number of SMP's which will be issued on the wire simultaneously.

## **RETURN VALUE**

ibnd\_discover\_fabric() return NULL on failure, otherwise a valid ibnd\_fabric\_t object.

ibnd\_destory\_fabric(), ibnd\_debug() NONE

**ibnd\_set\_max\_smps\_on\_wire()** The previous value is returned

# **EXAMPLES**

Discover the entire fabric connected to device mthca0, port 1.

```
int mgmt_classes[2] = {IB_SMI_CLASS, IB_SMI_DIRECT_CLASS}; struct ibmad_port
*ibmad_port = mad_rpc_open_port(ca, ca_port, mgmt_classes, 2); ibnd_fabric_t *fabric =
ibnd_discover_fabric(ibmad_port, 100, NULL, 0); ... ibnd_destroy_fabric(fabric);
    mad_rpc_close_port(ibmad_port);
```

Discover only a single node and those nodes connected to it.

```
... str2drpath(&(port_id.drpath), from, 0, 0); ... ibnd_discover_fabric(ibmad_port, 100, &port_id, 1); ...
```

# **SEE ALSO**

libibmad, mad\_rpc\_open\_port

# **AUTHORS**

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