## SYSFS FILES

For each InfiniBand device, the InfiniBand drivers create the following files under /sys/class/infiniband/<device name>:

```
node_type - Node type (CA, switch or router)
node_guid - Node GUID
sys image guid - System image GUID
```

In addition, there is a "ports" subdirectory, with one subdirectory for each port. For example, if mthca0 is a 2-port HCA, there will be two directories:

```
/sys/class/infiniband/mthca0/ports/1/sys/class/infiniband/mthca0/ports/2/
```

(A switch will only have a single "0" subdirectory for switch port 0; no subdirectory is created for normal switch ports)

In each port subdirectory, the following files are created:

There is also a "counters" subdirectory, with files

```
VL15 dropped
excessive buffer overrun errors
link downed
link_error_recovery
local_link_integrity_errors
port rcv constraint errors
port rcv data
port_rcv_errors
port_rcv_packets
port_rcv_remote_physical_errors
port_rcv_switch_relay_errors
port_xmit_constraint_errors
port xmit data
port xmit discards
port xmit packets
symbol error
```

Each of these files contains the corresponding value from the port's Performance Management PortCounters attribute, as described in section 16.1.3.5 of the InfiniBand Architecture Specification.

The "pkeys" and "gids" subdirectories contain one file for each entry in the port's P\_Key or GID table respectively. For example, ports/1/pkeys/10 contains the value at index 10 in port 1's P\_Key

table.

## MTHCA

The Mellanox HCA driver also creates the files: