

RDMA Commands Cheatsheet (Red Hat/CentOS)

libibverbs-utils Package

```
# List all IB devices
ibv_devices

# Detailed device information
ibv_devinfo [-d DEVICE]

# RC Mode Ping-Pong Test
ibv_rc_pingpong -d mlx5_0

# UC Mode Ping-Pong Test
ibv_uc_pingpong -d mlx5_0

# Shared Receive Queue Test
ibv_srq_pingpong -d mlx5_0
```

infiniband-diags Package

```
# IB Adapter and Port Status
ibstat
ibstatus

# IB Subnet Hosts
ibhosts

# Discover IB Network Topology
ibnetdiscover

# IB Network Link Information
iblinkinfo
```

rdma-core Package

```
# RDMA Subsystem Management
rdma help
rdma stat
rdma link

# Software RDMA Configuration
rxecfg start
rxecfg status
rxecfg add eth0
```

perftest Package: Bandwidth Tests

```
# Send Bandwidth Test
ib_send_bw SERVER_IP [-s SIZE] [-D DURATION]

# RDMA Read Bandwidth Test
ib_read_bw SERVER_IP [-s SIZE]

# RDMA Write Bandwidth Test
ib_write_bw SERVER_IP [-s SIZE]
```

perftest Package: Latency Tests

```
# Send Latency Test
ib_send_lat SERVER_IP

# RDMA Read Latency Test
ib_read_lat SERVER_IP

# RDMA Write Latency Test
ib_write_lat SERVER_IP
```

librdmacm-utils Package

```
# RDMA Ping Test
rping -s # Server mode
rping -c SERVER_IP # Client mode

# UC Connection Test
ucmatose -s # Server
ucmatose -c SERVER_IP # Client

# RDMA Client/Server Test
rdma_server
rdma_client SERVER_IP
```

Common RDMA Service Management

```
# Start RDMA Service
systemctl start rdma

# Enable RDMA on Boot
systemctl enable rdma

# Check RDMA Service Status
systemctl status rdma
```

Network Configuration

```
# Configure IPoIB Interface
ifconfig ib0 10.0.0.1/24
# or
ip addr add 10.0.0.1/24 dev ib0
```