

Boosting Applications Performance with RDMA

RDMA-Core GitHub Repo

The official RDMA core repository which holds userspace libraries, daemons and code examples

<https://github.com/linux-rdma/rdma-core>



Glossary

RDMA Objects:

SR – Send Request

RR – Receive Request

CQ – Completion Queue

RDMACM – RDMA Connection Manager



Command	Action
<code>rdma_connect()</code>	Connect to the remote server
<code>rdma_accept()</code>	Accept the connection request
<code>rdma_bind_addr()</code>	Set the local port number to listen on
<code>rdma_listen()</code>	Begin listening for connection requests
<code>rdma_create_qp()</code>	Allocate a QP for the communication on the new <code>rdma_cm_id</code>
<code>rdma_post_send()</code>	Post a buffer to send a message

libibverbs code examples



Memory Registration

<https://github.com/tomerlior/RDMA-GTC2022/blob/main/Code%20Examples/MemoryReg.c>

Send Request

<https://github.com/tomerlior/RDMA-GTC2022/blob/main/Code%20Examples/SendRequest.c>

Receive Request

<https://github.com/tomerlior/RDMA-GTC2022/blob/main/Code%20Examples/ReceiveRequest.c>

Request Completion

<https://github.com/tomerlior/RDMA-GTC2022/blob/main/Code%20Examples/RequestCompletion.c>

RC Ping Pong app

https://github.com/tomerlior/RDMA-GTC2022/blob/main/Code%20Examples/rc_pingpong.c

More libibverbs code examples

<https://github.com/linux-rdma/rdma-core/tree/master/libibverbs/examples>