Test results:

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| [root@zhuangdizhu1 ipv4]# echo "3091392 4121856 6182784" > tcp\_mem  [root@zhuangdizhu1 ipv4]# echo 10240 > tcp\_max\_syn\_backlog  [root@zhuangdizhu1 ipv4]# echo 262144 > tcp\_dma\_copybreak |
| [root@zhuangdizhu2 ipv4]# echo "3091392 4121856 6182784" > tcp\_mem  [root@zhuangdizhu2 ipv4]# echo 10240 > tcp\_max\_syn\_backlog  [root@zhuangdizhu2 ipv4]# echo 262144 > tcp\_dma\_copybreak  [root@zhuangdizhu2 ipv4]#qperf |
| [root@zhuangdizhu1 ipv4]# lspci  ……………………  ……………………  02:00.0 Network controller: Mellanox Technologies MT27500 Family [ConnectX-3]  04:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller (rev 09) |

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| [root@zhuangdizhu1 ipv4]# /sbin/sysctl -a | grep ipv4 |grep tcp |grep mem  net.ipv4.tcp\_mem = 3091392 4121856 6182784  net.ipv4.tcp\_wmem = 4096 65536 4194304  net.ipv4.tcp\_rmem = 4096 87380 4194304 |
| [root@zhuangdizhu2 ipv4]# /sbin/sysctl -a | grep ipv4 |grep tcp |grep mem  net.ipv4.tcp\_mem = 3091392 4121856 6182784  net.ipv4.tcp\_wmem = 4096 65536 4194304  net.ipv4.tcp\_rmem = 4096 87380 4194304 |
| [root@zhuangdizhu1 ipv4]# for i in {1..10}; do qperf 192.168.1.105 tcp\_bw;done  tcp\_bw:  bw = 11.8 MB/sec  tcp\_bw:  bw = 11.9 MB/sec  tcp\_bw:  bw = 11.9 MB/sec  tcp\_bw:  bw = 11.9 MB/sec  tcp\_bw:  bw = 11.9 MB/sec  tcp\_bw:  bw = 11.9 MB/sec  tcp\_bw:  bw = 11.9 MB/sec  tcp\_bw:  bw = 11.9 MB/sec  tcp\_bw:  bw = 11.9 MB/sec  tcp\_bw:  bw = 11.9 MB/sec  [root@zhuangdizhu1 ipv4]# for i in {1..10}; do qperf 172.16.1.3 tcp\_bw;done  tcp\_bw:  bw = 2.57 GB/sec  tcp\_bw:  bw = 2.57 GB/sec  tcp\_bw:  bw = 2.57 GB/sec  tcp\_bw:  bw = 2.58 GB/sec  tcp\_bw:  bw = 2.58 GB/sec  tcp\_bw:  bw = 2.58 GB/sec  tcp\_bw:  bw = 2.58 GB/sec  tcp\_bw:  bw = 2.58 GB/sec  tcp\_bw:  bw = 2.58 GB/sec  tcp\_bw:  bw = 2.58 GB/sec |
| [root@zhuangdizhu1 ipv4]# qperf 192.168.1.105 tcp\_bw  tcp\_bw:  bw = 11.9 MB/sec  (192.168.1.105 is zhuangdizhu1’s eth0 IP address.)  [root@zhuangdizhu1 ipv4]# qperf 172.16.1.3 tcp\_bw  tcp\_bw:  bw = 2.58 GB/sec  (172.16.1.3 is zhuangdizhu1’s ib0 IP address.) |
| [test@zhuangdizhu1 rdma-file-transfer]$ ./server  waiting for connections. interrupt (^C) to exit.  opening file test-file  received 10485760 bytes.  received 10485760 bytes.  …………  …………  received 4194304 bytes.  finished transferring test-file |
| [test@zhuangdizhu2 rdma-file-transfer]$ ./client 172.16.1.2 test-file  received MR, sending file name  received READY, sending chunk  received READY, sending chunk  …………  …………  received READY, sending chunk  received DONE, disconnecting  1.241876  [test@zhuangdizhu2 rdma-file-transfer]$  (It takes 1.241876 seconds for client to transfer 1G file to server using rdma) |

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| [test@zhuangdizhu2 rdma-file-transfer]$ time scp test-file test@192.168.1.100:~  test-file 100% 1024MB 11.3MB/s 01:31  real 1m30.766s  user 0m3.571s  sys 0m1.943s  (copy a 1G file from zhuangdizhu2 to zhuangdizhu1 ) |