

# Applications

L-a2a, MPML, NMPML, ONMPML

Intra-node  
Gather

Intra-node  
Scatter

Inter-node pairwise  
alltoall

RMA-Fence

RMA-Put, RMA-Get

Shared Heap

POSIX shared memory

OS Kernel

Hardware/Driver (Interconnect, CPU)

RDMA communication  
interface

MPI