

3.15.1 Zero Copy

As mentioned above zero copy can be very useful in systems where multiple nodes have shared memory. While, zero copy buffer management support can relatively simply be implemented on top of MCAPAPI providing specific buffer management API support may be useful, and something to consider for the future.

3.15.2 Multicast

MCAPAPI currently supports point-to-point communication. Communication with one sender and multiple receivers, often referred to as multi-cast, can be layered on top of MCAPAPI. For transports with (hardware) support for one-to-multiple communication, specific API functions supporting this type of communication would allow for more efficient implementations than is possible through layering.

3.15.3 Debug, Statistics and Status functions

Support functions providing information for debugging, optimization and system status are useful in most systems, and would be a valuable addition to MCAPAPI as well, and are also worth future consideration.