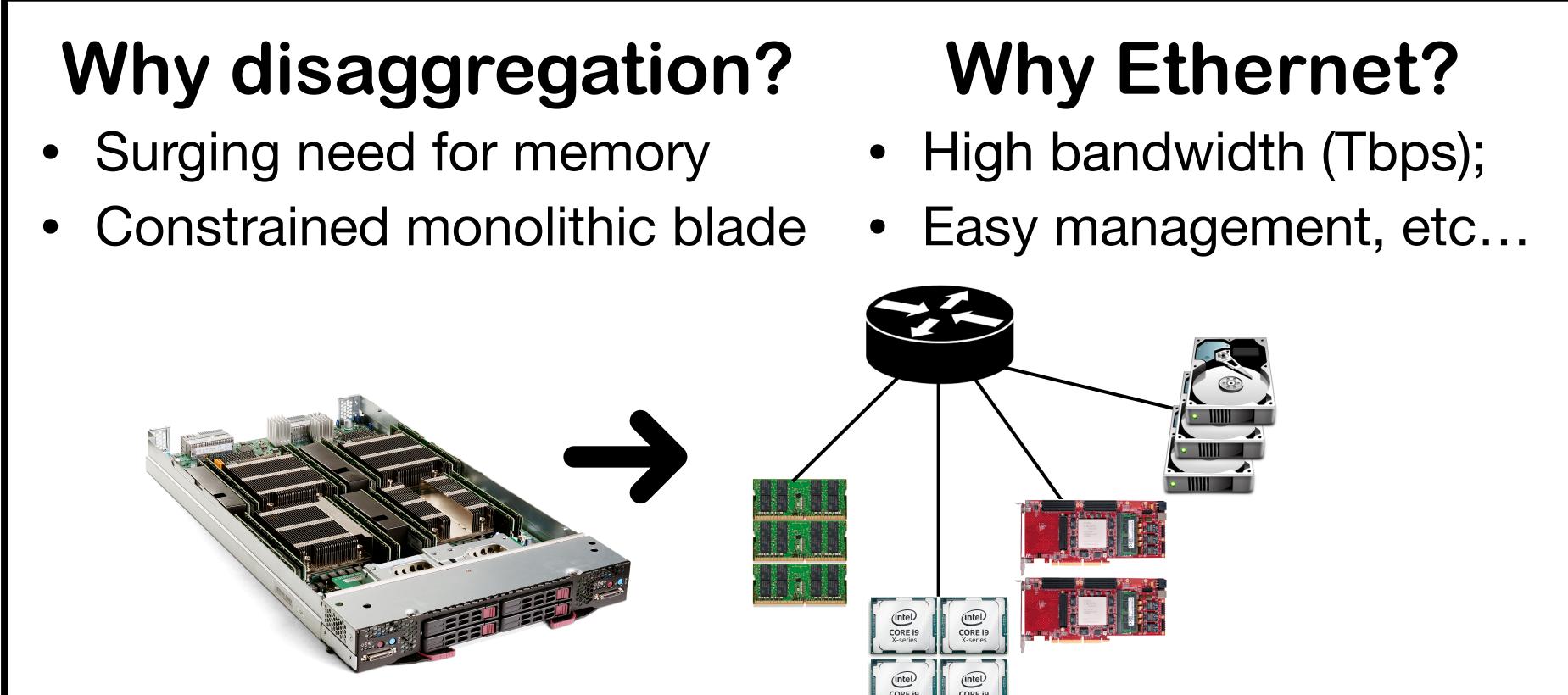
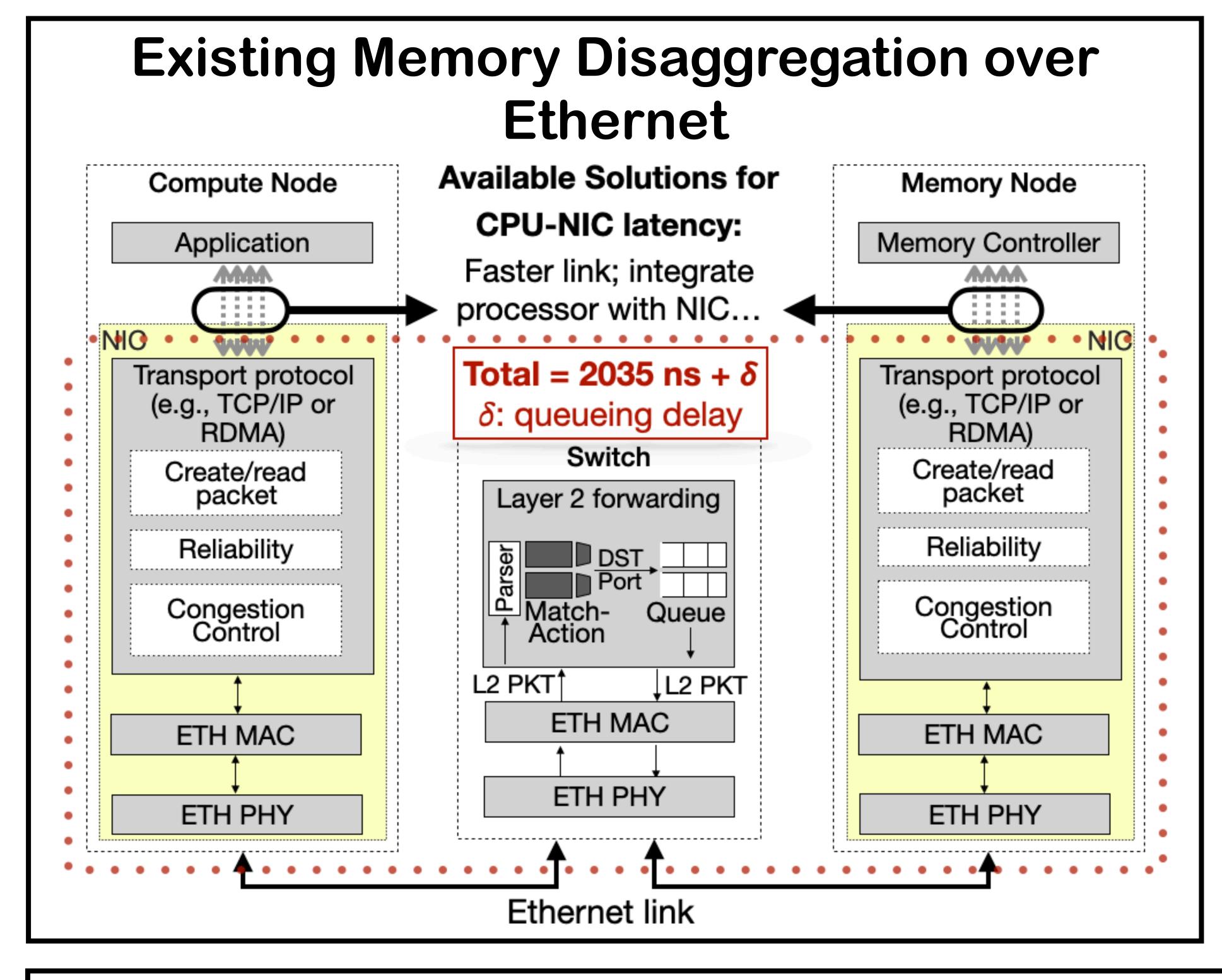
EDM: An Ultra-low Latency Ethernet Fabric for

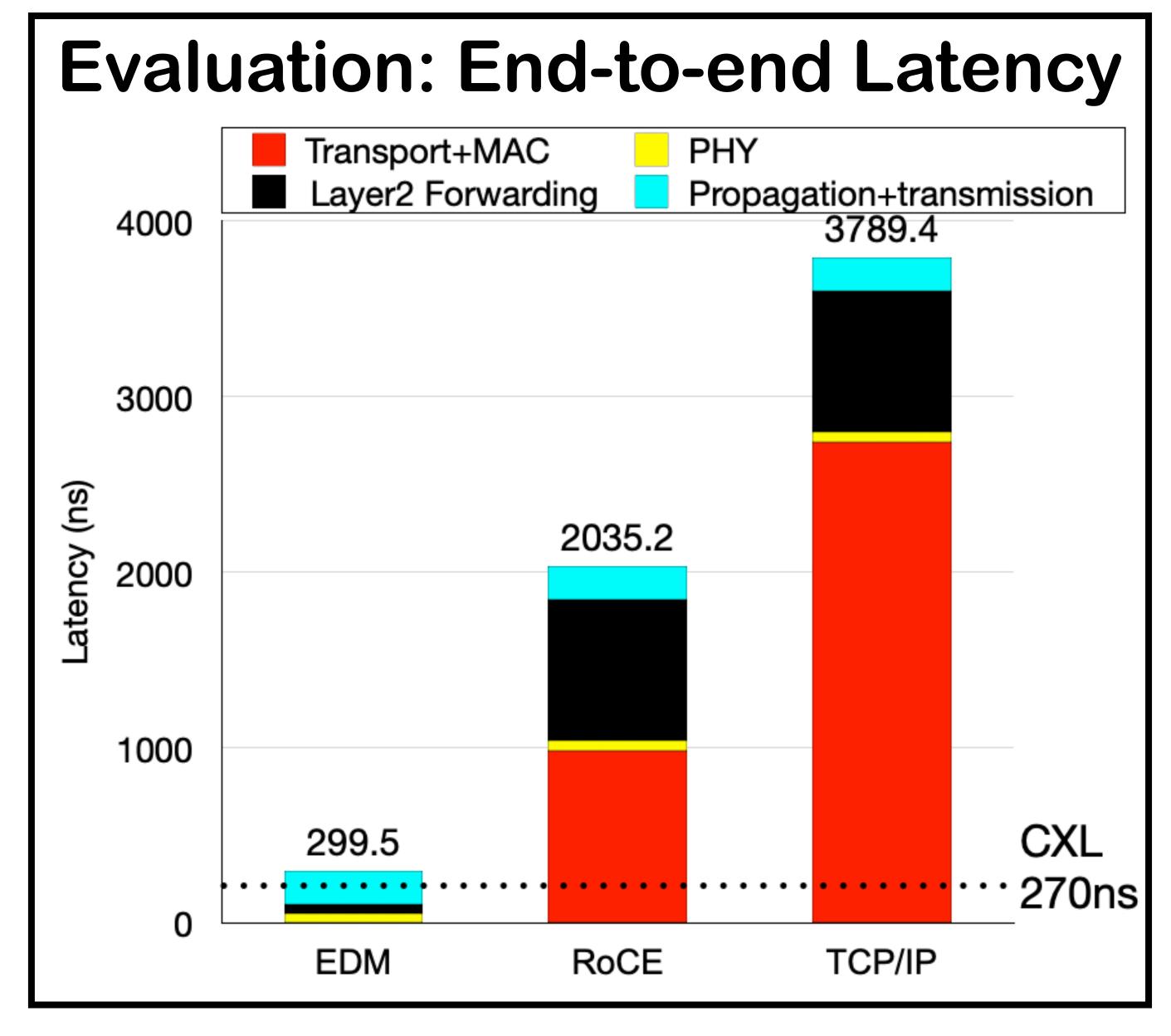
Weigao Su, Vishal Shrivastav S



Prohibitive Ethernet Latency 2200 ~2000 1650 -atency 1100 550 **DRAM** CXL RDMA over Intra-server (DDR4) NUMA Converged Ethernet

Ideal state: an *unified* fabric with low latency and high bandwidth.





Research Goal: Achieve near intra-server memory latency over rack-scale Ethernet (while maintaining high bandwidth utilization)

EDM (Ethernet Disaggregated Memory)

- Implement protocol for remote memory access within Ethernet PHY
- Implement a centralized memory traffic scheduler in the PHY of the switch

