Document network dependent rdma thresholds, above which benefits of the zero copy API can be gained

Status: In Progress
Priority: High
Assignee: Nitin Bhat
Category: Documentation
Target version: 6.8.1

Description

It's unclear to the user as to when the Zero Copy API should be used. So, it'll be good to document the buffer sizes for different networks to help the user choose between regular sending and zero copy sending appropriately.

History

#1 - 06/26/2017 04:46 PM - Nitin Bhat
- Target version set to 6.8.1
- Status changed from New to In Progress
- Category set to Documentation

Performance Evaluation before 6.8.0 release:
https://docs.google.com/spreadsheets/d/1dL2AYQ-kKZYGeM1PLDRX3k9z_uL95eDI7aU9gQiBZmo/edit?usp=sharing

Current numbers for GNI and Verbs aren't great (around 2 MB mark). This will improve with upcoming rdma features like recv-side, registration api, dynamic decision to use regular send for small arrays etc.

For now, documentation for 6.8.0 mentions that benefits from the zero copy api are mostly because of reduced memory footprint. Gerrit: https://charm.cs.illinois.edu/gerrit/#/c/2734/