

Reproducibility Description Appendix

Using RGB in a Real Environment

We run our tool against a real cluster. This cluster, named Quanah, is commissioned in 2017, and located at the High Performance Computing Center of Texas Tech University. It contains 467 compute nodes, 36 cores per node, overall 16,812 Cores. The cluster has 87.56 TB Total RAM, 192 GB per node. The nodes have Xeon E5-2695 v4 Broadwell Processors. Quanah uses Intel Omnipath Fabric with the speed of 100 Gbps for networking process. The nodes in the cluster were installed from the scratch with CentOS 7.3. Quanah was used as a real testbed to check the capability of RGB.

Using RGB in a Simulated Environment

We are going to run RGB against a containerized data center created using Docker Technology.