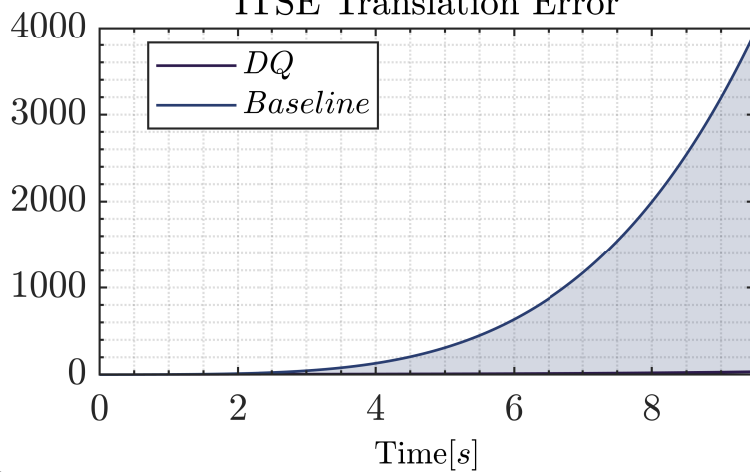


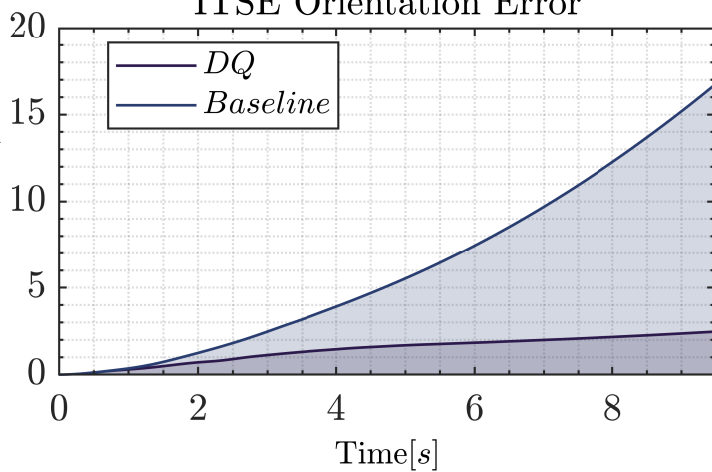
$$\frac{1}{N} \sum_{i=1}^{N_V} \left( \sum_{k=1}^v (t(k)) \left\| \mathbf{p}_{d,k} - \text{trans}(\hat{\mathbf{x}}_k^i) \right\| \right) \left\| \mathbf{p}_{d,k} - \text{trans}(\hat{\mathbf{x}}_k^i) \right\| t_s$$

ITSE Translation Error

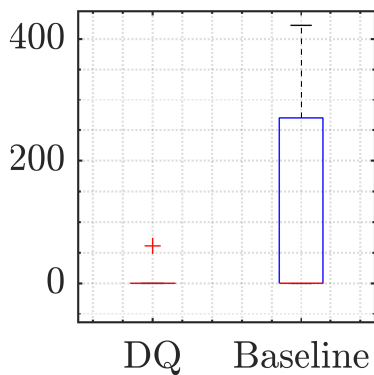


$$\frac{1}{N} \sum_{i=1}^N \left( \sum_{k=1}^t (t(k)) \left\| \log(\mathbf{q}_{d,k}^{i*} \circ \text{quat}(\hat{\mathbf{x}}_k^i)) \right\| \right) \left\| \log(\mathbf{q}_{d,k}^{i*} \circ \text{quat}(\hat{\mathbf{x}}_k^i)) \right\| t_s$$

ITSE Orientation Error



W-RMSE Translation



W-RMSE Orientation

