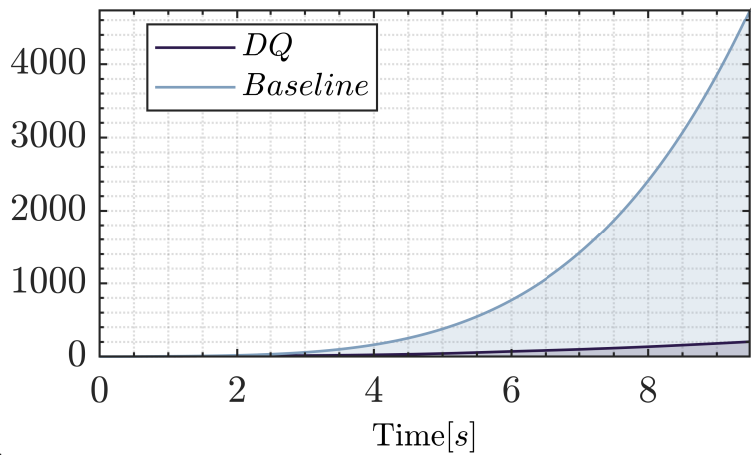


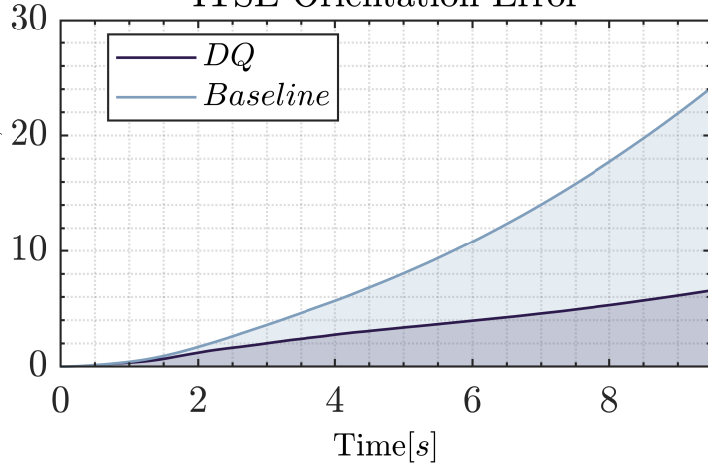
$$\frac{1}{N} \sum_{i=1}^N \left(\sum_{k=1}^t \left(\sum_{k=1}^t (t(k) - \text{trans}(\hat{\mathbf{x}}_k^i) \| \mathbf{p}_{d,k} - \text{trans}(\hat{\mathbf{x}}_k^i) \| t_s) \right) \right)$$

ITSE Translation Error

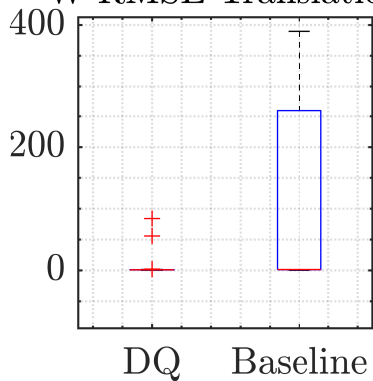


$$\frac{1}{N} \sum_{i=1}^N \left(\sum_{k=1}^t \left(\sum_{k=1}^t (t(k) - \text{quat}(\mathbf{q}_{d,k}^{i*} \circ \text{quat}(\hat{\mathbf{x}}_k^i) \| t_s) \right) \right)$$

ITSE Orientation Error



W-RMSE Translation



W-RMSE Orientation

