

pySLAM Evaluation Report

Luigi
Commit: f7c9a13
April 18, 2025

Table 1: Table Rmse

Dataset	baseline	root_sift	superpoint
rgb_d_dataset_freiburg1_desk	0.06634	0.05289	0.04815
rgb_d_dataset_freiburg1_desk2	0.04645	0.06255	0.03868
rgb_d_dataset_freiburg1_room	0.05885	0.07968	0.07199
rgb_d_dataset_freiburg1_xyz	0.01196	0.01758	0.01726
rgb_d_dataset_freiburg3_long_office_household	0.00921	0.00982	0.00952
rgb_d_dataset_freiburg3_nostructure_texture_far	0.08397	0.11342	0.12118
rgb_d_dataset_freiburg3_nostructure_texture_near_withloop	0.02245	0.05022	0.05037
Average	0.04275	0.05517	0.05102
Std Dev	0.0362	0.04531	0.04503
Best (Average) Preset	baseline		
Best (Average) Metric	0.04275		

Table 3: Table Max

Dataset	baseline	root_sift	superpoint
rgb_d_dataset_freiburg1_desk	0.326	0.19361	0.22686
rgb_d_dataset_freiburg1_desk2	0.44543	0.28865	0.38157
rgb_d_dataset_freiburg1_room	0.14959	0.2838	0.17632
rgb_d_dataset_freiburg1_xyz	0.06059	0.0677	0.0635
rgb_d_dataset_freiburg3_long_office_household	0.03609	0.03543	0.04005
rgb_d_dataset_freiburg3_nostructure_texture_far	0.29727	0.4361	0.70826
rgb_d_dataset_freiburg3_nostructure_texture_near_withloop	0.09011	0.13774	0.11602
Average	0.20073	0.20615	0.24465
Std Dev	0.18661	0.18182	0.26334
Best (Average) Preset	baseline		
Best (Average) Metric	0.20073		

Table 5: Table Percent Lost

Dataset	baseline	root_sift	superpoint
rgbd_dataset_freiburg1_desk	1.364	1.502	1.674
rgbd_dataset_freiburg1_desk2	0.548	1.55	0.612
rgbd_dataset_freiburg1_room	0.074	0.148	0.088
rgbd_dataset_freiburg1_xyz	0.05	0.076	0.078
rgbd_dataset_freiburg3_long_office_household	0.0	0.0	0.0
rgbd_dataset_freiburg3_nostructure_texture_far	0.622	0.622	0.666
rgbd_dataset_freiburg3_nostructure_texture_near_withloop	0.024	0.036	0.036
Average	0.38314	0.562	0.45057
Std Dev	0.50438	0.82947	0.59847
Best (Average) Preset	baseline		
Best (Average) Metric	0.38314		