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## QuEst+

KITTI

	EightPt	Nister	Kukelova	QuEst	VEst
<b>T err mean</b>	0.1549	0.1506	0.2007	0.0677	0.1059
<b>T err std</b>	0.1307	0.1168	0.0961	0.0431	0.1203
<b>T err med</b>	0.0988	0.1135	0.1937	0.0573	0.0613
<b>T err Q1</b>	0.0328	0.0583	0.1249	0.0436	0.0197
<b>T err Q3</b>	0.2471	0.2132	0.2801	0.0767	0.1269
<b>Q err mean</b>	0.2424	0.0319	0.0340	0.0201	0.0334
<b>Q err std</b>	0.1289	0.0506	0.0499	0.0457	0.0495
<b>Q err med</b>	0.2705	0.0203	0.0204	0.0074	0.0148
<b>Q err Q1</b>	0.1516	0.0083	0.0089	0.0039	0.0089
<b>Q err Q3</b>	0.3369	0.0236	0.0264	0.0112	0.0387

## VEst+

Since VEst outputs V and W, we compute the integral of the two and compute the error with respect to the ground truth for each frame.

KITTI

	VEst
<b>T err mean</b>	0.4706
<b>T err std</b>	0.4110
<b>T err med</b>	0.5111
<b>T err Q1</b>	0.0302
<b>T err Q3</b>	0.8798
<b>Q err mean</b>	0.0334
<b>Q err std</b>	0.0495
<b>Q err med</b>	0.0148
<b>Q err Q1</b>	0.0089
<b>Q err Q3</b>	0.0387

## QEKF

KITTI

	EightPt	Nister	Kukelova	QuEst	VEst
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<b>GT-X T err mea n</b>	0.3147	0.4010	0.4363	0.3100	0.2851
<b>GT-X T err std</b>	0.2572	0.2480	0.2621	0.3081	0.2749
<b>GT-X T err med</b>	0.1840	0.3945	0.4661	0.1290	0.1817
<b>GT-X T err Q1</b>	0.0752	0.1877	0.2315	0.0740	0.0459
<b>GT-X T err Q3</b>	0.5612	0.5420	0.5134	0.4998	0.5395
<b>GT-X Q err mea n</b>	0.3423	0.3423	0.3423	0.3423	0.3112
<b>GT-X Q err std</b>	0.0331	0.0331	0.0331	0.0331	0.0832
<b>GT-X Q err med</b>	0.3337	0.3337	0.3337	0.3337	0.3333
<b>GT-X Q err Q1</b>	0.3331	0.3331	0.3331	0.3331	0.3331
<b>GT-X Q err Q3</b>	0.3340	0.3340	0.3340	0.3340	0.3340
<b>GT-X V err mea n</b>	0.3743	0.3844	0.4815	0.4571	0.4154
<b>GT-X V err std</b>	0.3269	0.1977	0.2211	0.3323	0.3354
<b>GT-X V err med</b>	0.3652	0.4492	0.4830	0.4998	0.3294
<b>GT-X V err Q1</b>	0.0472	0.1970	0.4018	0.1207	0.0760
<b>GT-X V err Q3</b>	0.5001	0.5270	0.6502	0.7164	0.7379
<b>Z-X T L1 mea n</b>	8539937158 8763290752 2447161878 4085992625 2670645036	390578396 932571511 993989388 843057184 292098459 24437	7594405808 5821795583 0257894253 4956983687 6362386203	230462245 826349264 374237877 454829530 201494484 07568	3352625662 3614419393 5834332168 5316157323 0408040218
<b>Z-X T L1 std</b>	3195351895 3094883143 9212284249 0530522090 2884914851	146141054 399708096 058258782 085474767 989773942 53976	2841566459 1840438124 1166508026 5020260830 8667180978	862310764 468671738 652286837 823939324 630001506 57860	1254437657 4662567634 4521111216 7150360739 5367899517

<b>Z-X T L1 med</b>	441232656.1 951	1.7036	18.4817	0.5303	1.0727
<b>Z-X T L1 Q1</b>	0.5515	1.3011	1.8331	0.4553	0.3204
<b>Z-X T L1 Q3</b>	2188913705 6485989653 0296211308 0148016280 6894516574	216139173. 4072	7040960452 0008414039 3636776141 4345646107 569160192.	50741693.8 379	6267549692 138.8281
<b>Z-X Q L1 mea n</b>	1.6364	1.0793	1.0890	1.0467	1.0842
<b>Z-X Q L1 std</b>	0.3335	0.0765	0.0761	0.0351	0.0877
<b>Z-X Q L1 med</b>	1.8345	1.0489	1.0886	1.0383	1.0501
<b>Z-X Q L1 Q1</b>	1.4466	1.0297	1.0278	1.0239	1.0173
<b>Z-X Q L1 Q3</b>	1.8595	1.0985	1.1095	1.0569	1.1289
<b>Z-X V L1 mea n</b>	3731926063 6636843607 4150666843 1512140381 9944661748	851998984 306744714 172817776 557768900 743871528 77964	5277681251 8750352495 3816626452 6656380607 9731906445	143047092 106432360 401925718 344863218 506611848 86289	4125437724 4769328114 0793895246 2902086506 0037787448
<b>Z-X V L1 std</b>	1396358872 3001422536 3300445686 6592903762 9292778207	318788829 315522552 680808765 382469729 512734045 98373	1974727504 1116568502 0399060065 7872477903 9511976025	535233208 836564990 825919867 599186202 479845996 96358	1543597453 5464995674 5667157829 0242718374 0858935602
<b>Z-X V L1 med</b>	51544680.38 53	0.2252	1.8659	0.1265	0.1745
<b>Z-X V L1 Q1</b>	0.0786	0.0754	0.0866	0.0621	0.0507
<b>Z-X V L1 Q3</b>	1155661588 9022127815 1169271763 2480059117 1449672472	21960297.7 613	1914755556 7042229041 5147431675 8121430101 18893568.0	5047382.70 65	6203498961 40.9091
<b>Z-X T L2 mea n</b>	5451364079 2119633989 3790261454 8705832248 8753503531	209534532 784435398 505812931 168093317 325207319 35777	7735658743 0933914373 4280023081 3098930957 0810386681	602393744 947740652 270220237 869613809 797875868 26961	1153225059 3858877878 6541539224 8492125000 3451763584

<b>Z-X T L2 std</b>	inf	784006432 377109313 530548112 965655783 884779459 08282	inf	225395100 553013128 777265290 462565974 928325743 74006	4314973062 0640247977 3662902917 9904497522 3156214549
<b>Z-X T L2 med</b>	1362990144 43151584.00 00	1.2793	214.3274	0.1561	0.7569
<b>Z-X T L2 Q1</b>	0.3006	1.0614	1.2623	0.1244	0.0722
<b>Z-X T L2 Q3</b>	2469298943 8274174388 7688522857 6166306552 7684459227	344605492 21331012.0 000	5295790280 7483664556 1627037636 8234257719 2011699499	164646898 2339092.50 00	1955658666 0713151651 119104.000 0
<b>Z-X Q L2 mea n</b>	1.0000	1.0000	1.0000	1.0000	1.0000
<b>Z-X Q L2 std</b>	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Z-X Q L2 med</b>	1.0000	1.0000	1.0000	1.0000	1.0000
<b>Z-X Q L2 Q1</b>	1.0000	1.0000	1.0000	1.0000	1.0000
<b>Z-X Q L2 Q3</b>	1.0000	1.0000	1.0000	1.0000	1.0000
<b>Z-X V L2 mea n</b>	1011349324 0672443091 1727080529 0256929244 5372394952	469052333 014533297 680868832 969770432 485518644 43940	1978665457 8104264516 9825056177 3790167068 4376582387	159904545 137004150 405128306 241002798 385316683 05274	1562993749 9628090798 9987374143 8133463446 8291746606
<b>Z-X V L2 std</b>	inf	175503312 660737892 645649384 356555596 512702567 15189	inf	598308022 490598680 053072986 477260218 731863391 33064	5848187110 0298466187 3820308878 3780912140 6790774356
<b>Z-X V L2 med</b>	1363393136 813301.5000	0.0273	2.1113	0.0083	0.0182
<b>Z-X V L2 Q1</b>	0.0064	0.0031	0.0030	0.0021	0.0020
<b>Z-X V L2 Q3</b>	1608707443 9621633051 3620502069	344608884 502792.375 0	1747930214 3024460441 0789198086	164644076 10392.9180	1955670549 2361637212 9792.0000

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