# **XEst main**

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### init

#### run

```
cntr = 0;
for frame_idx = cfg.dat.keyFrames % --->> iter keyframes
  cntr = cntr+1;
  TQVW_sols = quest.get_pose(frame_idx, cfg.dat); % get pose
  TQVW_sols = vest.get_vel(cfg.dat.matches, TQVW_sols); % get velocity
  st_sols = qekf.run_filter(TQVW_sols); % run filter
  dlog.log_state(cntr, frame_idx, TQVW_sols, st_sols);
end % for frame_idx = cfg.dats.keyFrames
```

## results

```
quest_res = quest.get_res(cfg, dlog);
vest_res = vest.get_res(cfg, dlog);
qekf_res = qekf.get_res(cfg, dlog);
```

TUM

	EightPt	Nister	Kukelova	QuEst
Tran err mean	0.22021	0.30581	0.15831	0.15692
Tran err std	0.075288	0.11595	0.059177	0.076958

Tran err median Tran err Q_1 Tran err Q_3 Rot err mean Rot err std Rot err median Rot err Q_1 Rot err Q_3	0.20802 0.14782 0.29261 0.065759 0.082624 0.027054 0.0077886 0.12373	0.33699 0.21827 0.39336 0.033586 0.026133 0.034868 0.0079305 0.059242	0.1457 0.117 0.1995 0.03196 0.02447 0.03478 0.0078696 0.05605	1 0.0 3 0. 4 0.0 9 0.0 5 0.0	15662 187069 22677 16095 14543 12323 04591
TUM	EightPt	Nister	Kuke.	lova	QuEst
VEst Rot err mean VEst Rot err std VEst Rot err mediar VEst Rot err Q_1 VEst Rot err Q_3	0.055372 0.088694 0.0049106 0.0037042 0.10704	0.03286 0.0101 0.00303	67 0.0. 35 0.0. 15 0.00.	25497 31709 10097 30085 47986	0.017771 0.015693 0.015796 0.0025304 0.033011
1305031526.739478.png 1305031526.807455.png 1305031526.871446.png 1305031526.939618.png TUM			1		
	EightPt ————	Nister ————	Kukelova ————	QuEs 	:t 
St Tran err mean St Tran err std St Tran err median St Tran err Q_1 St Tran err Q_3	0.5135 0.16777 0.55634 0.38979 0.63721	0.53608 0.20258 0.54849 0.37445 0.69771	0.51635 0.17405 0.55503 0.37621 0.65649	0.505 0.172 0.49 0.375 0.635	242 264 509
	EightPt	Nister	Kukelo	va	QuEst
St Rot err mean St Rot err std St Rot err median St Rot err Q_1 St Rot err Q_3	0.34385 0.0016645 0.34341 0.34267 0.34502	0.34385 0.0016645 0.34341 0.34267 0.34502		645 0 341 267	0.34385 0.0016645 0.34341 0.34267 0.34502
	EightPt	Nister I	Kukelova	QuEst	
St Vel err mean St Vel err std St Vel err median St Vel err Q_1 St Vel err Q_3	0.18638 0.43268 0.28343 0.62957	0.18723 (0.36691 (0.26312 (0.58263 (0.5	0.41439 0.19888 0.36136 0.23941 0.58937	0.4576 0.1862 0.411 0.3008 0.6144	28 .3 22
	EightPt 	Nister	Kuke	elova	QuEst

St Rot L1 mean         1.6654         1.5565         1.5585         1.6483           St Rot L1 std         0.16584         0.0441         0.045903         0.03413           St Rot L1 std         0.16584         0.0441         0.045903         0.03413           St Rot L1 median         1.5758         1.577         1.5768         1.6449           St Rot L1 Q_1         1.5631         1.5255         1.5254         1.6177           St Rot L1 Q_3         1.7676         1.5875         1.5916         1.679           EightPt Nister Kukelova QuEst           St Vel L1 mean         32508         22983         18795         19406           St Vel L1 median         6.8445         7.216         6.1591         4.1651           St Vel L1 Q_1         0.37634         0.27355         0.33689         0.23077           St Vel L1 Q_3         65016         45966         37589         38811           EightPt         Nister         Kukelova         QuEst           St Tran L2 mean         1.5997e+11         7.981e+10         5.3281e+10         5.2303e+10           St Tran L2 median         1456.7         839.55         546.86         391.02 <t< th=""><th>St Tran L1 mean St Tran L1 std St Tran L1 median St Tran L1 Q_1 St Tran L1 Q_3</th><th>3.0729e+05 5.322e+05 34.33 3.8155 6.1458e+05</th><th>2.158e+0 3.7375e+0 27.88 5.998 4.316e+0</th><th>05 3.0 38 36</th><th>7632e+05 0536e+05 22.679 4.065 5263e+05</th><th>1.5955e+05 2.7632e+05 21.053 3.0165 3.191e+05</th></t<>	St Tran L1 mean St Tran L1 std St Tran L1 median St Tran L1 Q_1 St Tran L1 Q_3	3.0729e+05 5.322e+05 34.33 3.8155 6.1458e+05	2.158e+0 3.7375e+0 27.88 5.998 4.316e+0	05 3.0 38 36	7632e+05 0536e+05 22.679 4.065 5263e+05	1.5955e+05 2.7632e+05 21.053 3.0165 3.191e+05	
St Rot L1 std         0.16584         0.0441         0.045903         0.03413           St Rot L1 median         1.5758         1.5777         1.5768         1.6449           St Rot L1 Q_1         1.5631         1.5255         1.5254         1.6177           St Rot L1 Q_3         1.7676         1.5875         1.5916         1.679           EightPt         Nister         Kukelova         QuEst           St Vel L1 mean         32508         22983         18795         19406           St Vel L1 median         6.8445         7.216         6.1591         4.1651           St Vel L1 Q_1         0.37634         0.27355         0.33689         0.23077           St Vel L1 Q_3         65016         45966         37589         38811           EightPt         Nister         Kukelova         QuEst           St Tran L2 mean         1.5997e+11         7.981e+10         5.3281e+10         5.2303e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           EightPt		EightPt N	ister Kul	kelova	QuEst		
St Rot L1 std         0.16584         0.0441         0.045903         0.03413           St Rot L1 median         1.5758         1.5777         1.5768         1.6449           St Rot L1 Q_1         1.5631         1.5255         1.5254         1.6177           St Rot L1 Q_3         1.7676         1.5875         1.5916         1.679           EightPt         Nister         Kukelova         QuEst           St Vel L1 mean         32508         22983         18795         19406           St Vel L1 median         6.8445         7.216         6.1591         4.1651           St Vel L1 Q_1         0.37634         0.27355         0.33689         0.23077           St Vel L1 Q_3         65016         45966         37589         38811           EightPt         Nister         Kukelova         QuEst           St Tran L2 mean         1.5997e+11         7.981e+10         5.3281e+10         5.2303e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           EightPt							
St Rot L1 median	St Rot L1 mean	1.6654 1	.5565	1.5585	1.6483		
St Rot L1 Q_1       1.5631       1.5255       1.5254       1.6177         St Rot L1 Q_3       1.7676       1.5875       1.5916       1.679         EightPt       Nister       Kukelova       QuEst         St Vel L1 mean       32508       22983       18795       19406         St Vel L1 std       56298       39800       32546       33607         St Vel L1 Q_1       0.37634       0.27355       0.33689       0.23077         St Vel L1 Q_3       65016       45966       37589       38811         EightPt       Nister       Kukelova       QuEst         St Tran L2 mean       1.5997e+11       7.981e+10       5.3281e+10       5.2303e+10         St Tran L2 median       1.456.7       839.55       546.86       391.02         St Tran L2 Q_1       8.5905       13.792       8.4873       4.3229         St Tran L2 Q_3       3.1994e+11       1.5962e+11       1.0656e+11       1.0461e+11         EightPt       Nister       Kukelova       QuEst         St Rot L2 mean       1       1       1       1       1         St Vel	St Rot L1 std	0.16584 0	.0441 0.0	045903	0.03413		
St Rot L1 Q_3		1.5758			1.6449		
St Vel L1 mean         32508         22983         18795         19406           St Vel L1 median         56298         39800         32546         33607           St Vel L1 median         6.8445         7.216         6.1591         4.1651           St Vel L1 Q_1         0.37634         0.27355         0.33689         0.23077           St Vel L1 Q_3         65016         45966         37589         38811           EightPt         Nister         Kukelova         QuEst           St Tran L2 mean         1.5997e+11         7.981e+10         5.3281e+10         5.2303e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_1         8.5905         13.792         8.4873         4.3229           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           EightPt         Nister         Kukelova         QuEst           St Rot L2 mean         1         1         1         1         1           St Rot L2 median         1         1         1         1         1         1           St Rot L2 median         1         1         1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
St Vel L1 mean       32508       22983       18795       19406         St Vel L1 std       56298       39800       32546       33607         St Vel L1 median       6.8445       7.216       6.1591       4.1651         St Vel L1 Q_1       0.37634       0.27355       0.33689       0.23077         St Vel L1 Q_3       65016       45966       37589       38811         EightPt       Nister       Kukelova       QuEst         St Tran L2 mean       1.5997e+11       7.981e+10       5.3281e+10       5.2303e+10         St Tran L2 std       2.7708e+11       1.3824e+11       9.2285e+10       9.0591e+10         St Tran L2 wedian       1456.7       839.55       546.86       391.02         St Tran L2 Q_1       8.5905       13.792       8.4873       4.3229         St Tran L2 Q_3       3.1994e+11       1.5962e+11       1.0656e+11       1.0461e+11         St Rot L2 mean       1       1       1       1       1         St Rot L2 median       1       1       1       1       1         St Rot L2 Q_1       1       1       1       1       1         St Rot L2 Q_3       1       1       1	St Rot L1 Q_3	1.7676 1	.5875	1.5916	1.679		
St Vel L1 std         56298         39800         32546         33607           St Vel L1 median         6.8445         7.216         6.1591         4.1651           St Vel L1 Q_1         0.37634         0.27355         0.33689         0.23077           St Vel L1 Q_3         65016         45966         37589         38811           EightPt         Nister         Kukelova         QuEst           St Tran L2 mean         1.5997e+11         7.981e+10         5.3281e+10         5.2303e+10           St Tran L2 std         2.7708e+11         1.3824e+11         9.2285e+10         9.0591e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_1         8.5905         13.792         8.4873         4.3229           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           EightPt         Nister         Kukelova         QuEst           St Rot L2 mean         1         1         1         1           EightPt         Nister         Kukelova         QuEst           EightPt         Nister         Kukelova         QuEst <td< td=""><td></td><td>EightPt N</td><td>ister Kı</td><td>ıkelova</td><td>QuEst</td><td></td></td<>		EightPt N	ister Kı	ıkelova	QuEst		
St Vel L1 std         56298         39800         32546         33607           St Vel L1 median         6.8445         7.216         6.1591         4.1651           St Vel L1 Q_1         0.37634         0.27355         0.33689         0.23077           St Vel L1 Q_3         65016         45966         37589         38811           EightPt         Nister         Kukelova         QuEst           St Tran L2 mean         1.5997e+11         7.981e+10         5.3281e+10         5.2303e+10           St Tran L2 std         2.7708e+11         1.3824e+11         9.2285e+10         9.0591e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_1         8.5905         13.792         8.4873         4.3229           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           EightPt         Nister         Kukelova         QuEst           St Rot L2 mean         1         1         1         1           St Vel L2 mean         1.8256e+09         9.1559e+08         6.1228e+08         5.9666e+08           St Vel L2 median         31.506         32.57							
St Vel L1 median         6.8445         7.216         6.1591         4.1651           St Vel L1 Q_1         0.37634         0.27355         0.33689         0.23077           St Vel L1 Q_3         65016         45966         37589         38811           EightPt         Nister         Kukelova         QuEst           St Tran L2 mean         1.5997e+11         7.981e+10         5.3281e+10         5.2303e+10           St Tran L2 std         2.7708e+11         1.3824e+11         9.2285e+10         9.0591e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_1         8.5905         13.792         8.4873         4.3229           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           EightPt         Nister         Kukelova         QuEst           St Rot L2 mean         1         1         1         1           St Vel L2 mean         1.8256e+09         9.1559e+08         6.1228e+08         5.9666e+08           St Vel L2 mead         31.506         32.57         22.908         12.285 <td colspan<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
St Vel L1 Q_1 St Vel L1 Q_3         0.37634 65016         0.27355 45966         0.33689 37589         0.23077 38811           EightPt         Nister         Kukelova         QuEst           St Tran L2 mean         1.5997e+11         7.981e+10         5.3281e+10         5.2303e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_1         8.5905         13.792         8.4873         4.3229           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           St Rot L2 mean         1							
St Vel L1 Q_3       65016       45966       37589       38811         EightPt       Nister       Kukelova       QuEst         St Tran L2 mean       1.5997e+11       7.981e+10       5.3281e+10       5.2303e+10         St Tran L2 std       2.7708e+11       1.3824e+11       9.2285e+10       9.0591e+10         St Tran L2 median       1456.7       839.55       546.86       391.02         St Tran L2 Q_1       8.5905       13.792       8.4873       4.3229         St Tran L2 Q_3       3.1994e+11       1.5962e+11       1.0656e+11       1.0461e+11         EightPt       Nister       Kukelova       QuEst         St Rot L2 mean       1       1       1       1         St Rot L2 median       1       1       1       1         St Rot L2 Q_1       1       1       1       1         St Vel L2 mean       1.8256e+09       9.1559e+08       6.1228e+08       5.9666e+08         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088667       0.04155							
EightPt         Nister         Kukelova         QuEst           St Tran L2 mean         1.5997e+11         7.981e+10         5.3281e+10         5.2303e+10           St Tran L2 std         2.7708e+11         1.3824e+11         9.2285e+10         9.0591e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_1         8.5905         13.792         8.4873         4.3229           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           EightPt         Nister         Kukelova         QuEst           St Rot L2 mean         1         1         1         1           St Rot L2 mean         1         1         1         1           St Rot L2 wedian         1         1         1         1           St Rot L2 Q_1         1         1         1         1           St Rot L2 wedian         1         1         1         1							
St Tran L2 mean       1.5997e+11       7.981e+10       5.3281e+10       5.2303e+10         St Tran L2 std       2.7708e+11       1.3824e+11       9.2285e+10       9.0591e+10         St Tran L2 median       1456.7       839.55       546.86       391.02         St Tran L2 Q_1       8.5905       13.792       8.4873       4.3229         St Tran L2 Q_3       3.1994e+11       1.5962e+11       1.0656e+11       1.0461e+11         EightPt       Nister       Kukelova       QuEst         St Rot L2 mean       1       1       1       1         St Rot L2 median       1       1       1       1       1         St Rot L2 Q_1       1	St Vei Li Q_3	03010	45900	37309	30011		
St Tran L2 std         2.7708e+11         1.3824e+11         9.2285e+10         9.0591e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_1         8.5905         13.792         8.4873         4.3229           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           EightPt         Nister         Kukelova         QuEst           St Rot L2 mean         1         1         1         1           St Rot L2 std         1.6653e-16         1.3597e-16         1.923e-16         2.7756e-16           St Rot L2 median         1         1         1         1           St Rot L2 Q_1         1         1         1         1           St Rot L2 Q_3         1         1         1         1           St Rot L2 mean         1.8256e+09         9.1559e+08         6.1228e+08         5.9666e+08           St Vel L2 median         31.506         32.		EightPt 	Nister_		ıkelova	QuEst	
St Tran L2 std         2.7708e+11         1.3824e+11         9.2285e+10         9.0591e+10           St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_1         8.5905         13.792         8.4873         4.3229           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           EightPt         Nister         Kukelova         QuEst           St Rot L2 mean         1         1         1         1           St Rot L2 std         1.6653e-16         1.3597e-16         1.923e-16         2.7756e-16           St Rot L2 median         1         1         1         1           St Rot L2 Q_1         1         1         1         1           St Rot L2 Q_3         1         1         1         1           St Rot L2 mean         1.8256e+09         9.1559e+08         6.1228e+08         5.9666e+08           St Vel L2 median         31.506         32.	St Tran 12 mean	1.5997e+11	7.981e+1	10 5.3	3281e+10	5.2303e+10	
St Tran L2 median         1456.7         839.55         546.86         391.02           St Tran L2 Q_1         8.5905         13.792         8.4873         4.3229           St Tran L2 Q_3         3.1994e+11         1.5962e+11         1.0656e+11         1.0461e+11           St Rot L2 mean         1         1         1         1         1           St Rot L2 mean         1         1         1         1           St Rot L2 median         1         1         1         1           St Rot L2 median         1         1         1         1           St Rot L2 Q_1         1         1         1         1           St Rot L2 Q_3         1         1         1         1           St Vel L2 mean         1.8256e+09         9.1559e+08         6.1228e+08         5.9666e+08           St Vel L2 median         31.506         32.57         22.908         12.285           St Vel L2 median         31.506         32.57         22.908         12.285           St Vel L2 Q_1         0.11444         0.05764         0.088867         0.04155							
St Tran L2 Q_3     3.1994e+11     1.5962e+11     1.0656e+11     1.0461e+11       EightPt     Nister     Kukelova     QuEst       St Rot L2 mean     1     1     1     1       St Rot L2 std     1.6653e-16     1.3597e-16     1.923e-16     2.7756e-16       St Rot L2 median     1     1     1     1       St Rot L2 Q_1     1     1     1     1       St Rot L2 Q_3     1     1     1     1       EightPt     Nister     Kukelova     QuEst       St Vel L2 mean     1.8256e+09     9.1559e+08     6.1228e+08     5.9666e+08       St Vel L2 std     3.1621e+09     1.5859e+09     1.0605e+09     1.0334e+09       St Vel L2 median     31.506     32.57     22.908     12.285       St Vel L2 Q_1     0.11444     0.05764     0.088867     0.04155	St Tran L2 median		839.5	55	546.86		
EightPt       Nister       Kukelova       QuEst         St Rot L2 mean       1       1       1       1         St Rot L2 std       1.6653e-16       1.3597e-16       1.923e-16       2.7756e-16         St Rot L2 median       1       1       1       1         St Rot L2 Q_1       1       1       1       1         St Rot L2 Q_3       1       1       1       1         St Rot L2 Mean       1.8256e+09       9.1559e+08       6.1228e+08       5.9666e+08         St Vel L2 mean       1.8256e+09       9.1559e+08       6.1228e+08       5.9666e+08         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155	St Tran L2 Q_1	8.5905	13.79	92	8.4873	4.3229	
St Rot L2 mean       1       1       1       1         St Rot L2 std       1.6653e-16       1.3597e-16       1.923e-16       2.7756e-16         St Rot L2 median       1       1       1       1         St Rot L2 Q_1       1       1       1       1       1         St Rot L2 Q_3       1 <td>St Tran L2 Q_3</td> <td>3.1994e+11</td> <td>1.5962e+1</td> <td>11 1.0</td> <td>0656e+11</td> <td>1.0461e+11</td>	St Tran L2 Q_3	3.1994e+11	1.5962e+1	11 1.0	0656e+11	1.0461e+11	
St Rot L2 std       1.6653e-16       1.3597e-16       1.923e-16       2.7756e-16         St Rot L2 median       1       1       1       1         St Rot L2 Q_1       1       1       1       1         St Rot L2 Q_3       1       1       1       1         EightPt       Nister       Kukelova       QuEst         St Vel L2 mean       1.8256e+09       9.1559e+08       6.1228e+08       5.9666e+08         St Vel L2 std       3.1621e+09       1.5859e+09       1.0605e+09       1.0334e+09         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155		EightPt	Nister	Kuke	elova	QuEst	
St Rot L2 std       1.6653e-16       1.3597e-16       1.923e-16       2.7756e-16         St Rot L2 median       1       1       1       1         St Rot L2 Q_1       1       1       1       1         St Rot L2 Q_3       1       1       1       1         EightPt       Nister       Kukelova       QuEst         St Vel L2 mean       1.8256e+09       9.1559e+08       6.1228e+08       5.9666e+08         St Vel L2 std       3.1621e+09       1.5859e+09       1.0605e+09       1.0334e+09         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155							
St Rot L2 std       1.6653e-16       1.3597e-16       1.923e-16       2.7756e-16         St Rot L2 median       1       1       1       1         St Rot L2 Q_1       1       1       1       1         St Rot L2 Q_3       1       1       1       1         EightPt       Nister       Kukelova       QuEst         St Vel L2 mean       1.8256e+09       9.1559e+08       6.1228e+08       5.9666e+08         St Vel L2 std       3.1621e+09       1.5859e+09       1.0605e+09       1.0334e+09         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155	St Rot L2 mean	1		1	1	1	
St Rot L2 Q_1       1       1       1       1       1         St Rot L2 Q_3       1       1       1       1       1         EightPt       Nister       Kukelova       QuEst         St Vel L2 mean       1.8256e+09       9.1559e+08       6.1228e+08       5.9666e+08         St Vel L2 std       3.1621e+09       1.5859e+09       1.0605e+09       1.0334e+09         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155		1.6653e-16	1.3597e-16	5 1.92	23e-16	2.7756e-16	
St Rot L2 Q_3       1       1       1       1         EightPt       Nister       Kukelova       QuEst         St Vel L2 mean       1.8256e+09       9.1559e+08       6.1228e+08       5.9666e+08         St Vel L2 std       3.1621e+09       1.5859e+09       1.0605e+09       1.0334e+09         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155		1		1	1	1	
EightPt     Nister     Kukelova     QuEst       St Vel L2 mean     1.8256e+09     9.1559e+08     6.1228e+08     5.9666e+08       St Vel L2 std     3.1621e+09     1.5859e+09     1.0605e+09     1.0334e+09       St Vel L2 median     31.506     32.57     22.908     12.285       St Vel L2 Q_1     0.11444     0.05764     0.088867     0.04155	St Rot L2 Q_1	1	j	1	1	1	
St Vel L2 mean       1.8256e+09       9.1559e+08       6.1228e+08       5.9666e+08         St Vel L2 std       3.1621e+09       1.5859e+09       1.0605e+09       1.0334e+09         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155	St Rot L2 Q_3	1	Ĩ	1	1	1	
St Vel L2 std       3.1621e+09       1.5859e+09       1.0605e+09       1.0334e+09         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155		EightPt	Nister	Ku}	celova	QuEst	
St Vel L2 std       3.1621e+09       1.5859e+09       1.0605e+09       1.0334e+09         St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155	St Vel 1.2 mean	1.8256e+09	9.1559e+08	3 6 13	228e+08	5.9666e+08	
St Vel L2 median       31.506       32.57       22.908       12.285         St Vel L2 Q_1       0.11444       0.05764       0.088867       0.04155							
St Vel L2 Q_1 0.11444 0.05764 0.088867 0.04155							
			1.8312e+09	9 1.22	246e+09	1.1933e+09	

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