

**Figure 12: PROC GENMOD and PROC GLMSELECT Results**

Question 1: Do Particular Sensor Calibrations Affect the Platform's Ability to Detect Objects?

PROC GENMOD (Generalized Linear Model)

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1241.709	340.3330	574.6685	1908.749	3.65	0.0003
focal_length	-1.3634	0.3137	-1.9782	-0.7486	-4.35	<.0001
cx	0.1600	0.0536	0.0550	0.2650	2.99	0.0028
cy	-0.1505	0.1463	-0.4371	0.1362	-1.03	0.3035

  

Score Statistics For Type 3 GEE Analysis			
Source	DF	Chi-Square	Pr > ChiSq
focal_length	1	14.66	0.0001
cx	1	9.16	0.0025
cy	1	0.99	0.3206

More evidence of interactions strongly influencing number of annotations observed.

## Question 1: Do Particular Sensor Calibrations Affect the Platform's Ability to Detect Objects?

Top 10 t-values for Three-Factor and Two-Factor Interactions

Parameter	DF	Estimate	Standard	t Value
Intercept	1	57.52456	0.127961	449.55
BIN_fo*BIN_cx*BIN_cy 3 7 6	1	15.6321	0.296735	52.68
BIN_fo*BIN_cx*BIN_cy 8 5 7	1	16.99846	0.789293	21.54
BIN_fo*BIN_cx*BIN_cy 6 8 7	1	26.32148	1.466322	17.95
BIN_fo*BIN_cx*BIN_cy 6 4 7	1	10.81749	0.624653	17.32
BIN_fo*BIN_cx*BIN_cy 4 7 4	1	25.16909	1.466322	17.16
Parameter	DF	Estimate	Standard	t Value
Intercept	1	76.35053	2.296815	33.24
BIN_focal_len*BIN_cx 7 3	1	7.250033	0.471658	15.37
BIN_focal_len*BIN_cx 4 7	1	21.7729	1.458622	14.93
BIN_focal_len*BIN_cx 9 6	1	5.22258	0.402207	12.98
BIN_focal_len*BIN_cx 5 3	1	19.71103	1.520818	12.96
BIN_focal_len*BIN_cx 3 9	1	10.64949	1.147594	9.28

More evidence of interactions strongly influencing number of annotations observed.