The GLM Procedure

Class Level Information		
Class	Levels	Values
plating	3	-1 0 1
threaded	2	0 1

Number of Observations Read	60
Number of Observations Used	60

The GLM Procedure

Dependent Variable: Torque

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	3777.133333	755.426667	20.65	<.0001
Error	54	1975.200000	36.577778		
Corrected Total	59	5752.333333			

R-Square	Coeff Var	Root MSE	Torque Mean
0.656626	25.37604	6.047956	23.83333

Source	DF	Type I SS	Mean Square	F Value	Pr > F
plating	2	2290.633333	1145.316667	31.31	<.0001
threaded	1	821.400000	821.400000	22.46	<.0001
plating*threaded	2	665.100000	332.550000	9.09	0.0004

Source	DF	Type III SS	Mean Square	F Value	Pr > F
plating	2	2290.633333	1145.316667	31.31	<.0001
threaded	1	821.400000	821.400000	22.46	<.0001
plating*threaded	2	665.100000	332.550000	9.09	0.0004

| Parameter	Estimate		Standard Error	t Value	Pr > |t|
Intercept	29.40000000	B	1.91253177	15.37	<.0001
plating -1	-15.30000000	B	2.70472837	-5.66	<.0001
plating 0	-12.50000000	B	2.70472837	-4.62	<.0001
plating 1	0.00000000	B	.	.	.
threaded 0	5.30000000	B	2.70472837	1.96	0.0552
threaded 1	0.00000000	B	.	.	.
plating*threaded -1 0	11.10000000	B	3.82506354	2.90	0.0054
plating*threaded -1 1	0.00000000	B	.	.	.
plating*threaded 0 0	-4.80000000	B	3.82506354	-1.25	0.2149
plating*threaded 0 1	0.00000000	B	.	.	.
plating*threaded 1 0	0.00000000	B	.	.	.
plating*threaded 1 1	0.00000000	B	.	.	.

Note: The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations. Terms whose estimates are followed by the letter 'B' are not uniquely estimable.

The GLM Procedure

Dependent Variable: Torque

Interaction Plot for Torque
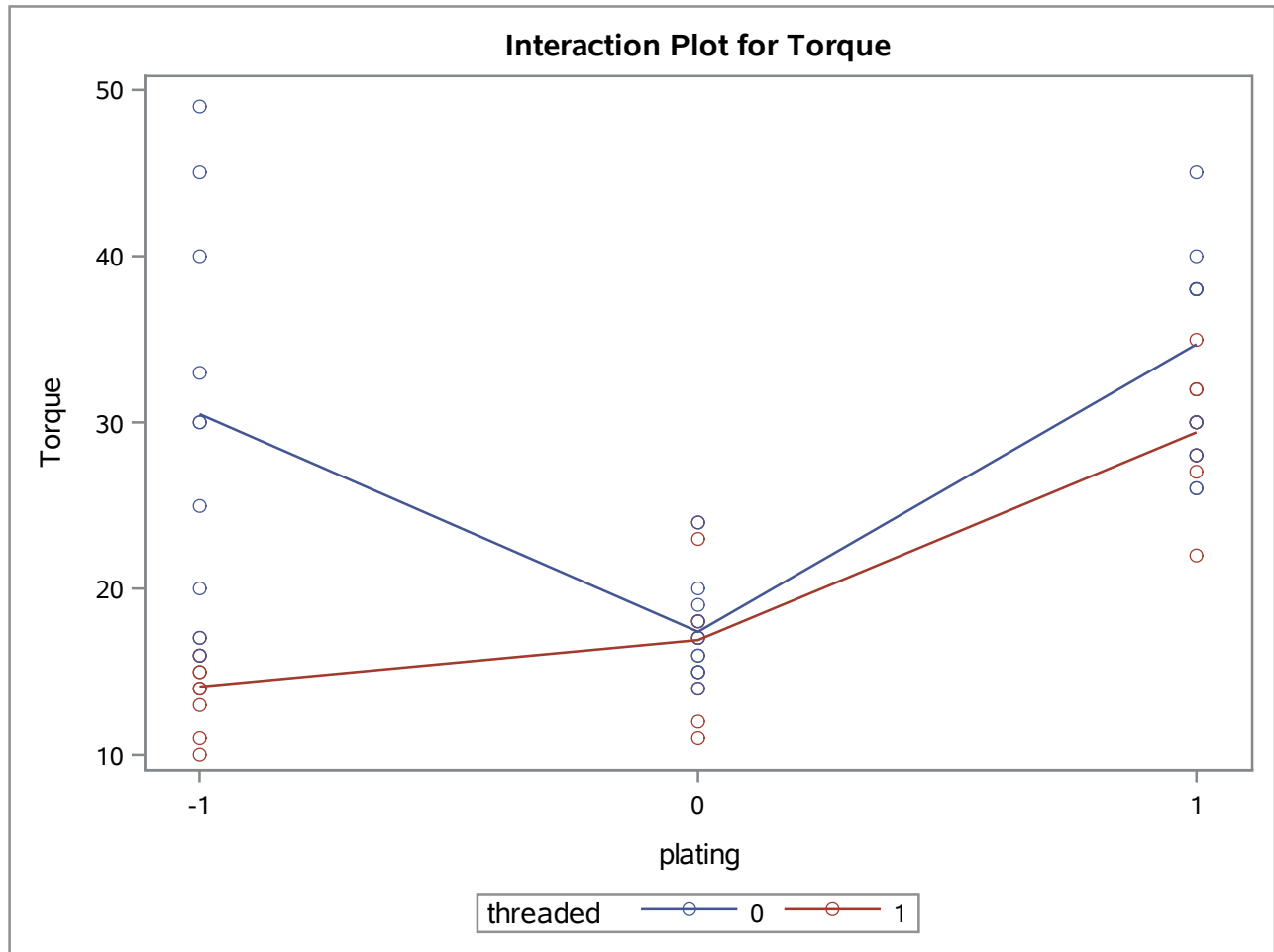
The GLM Procedure
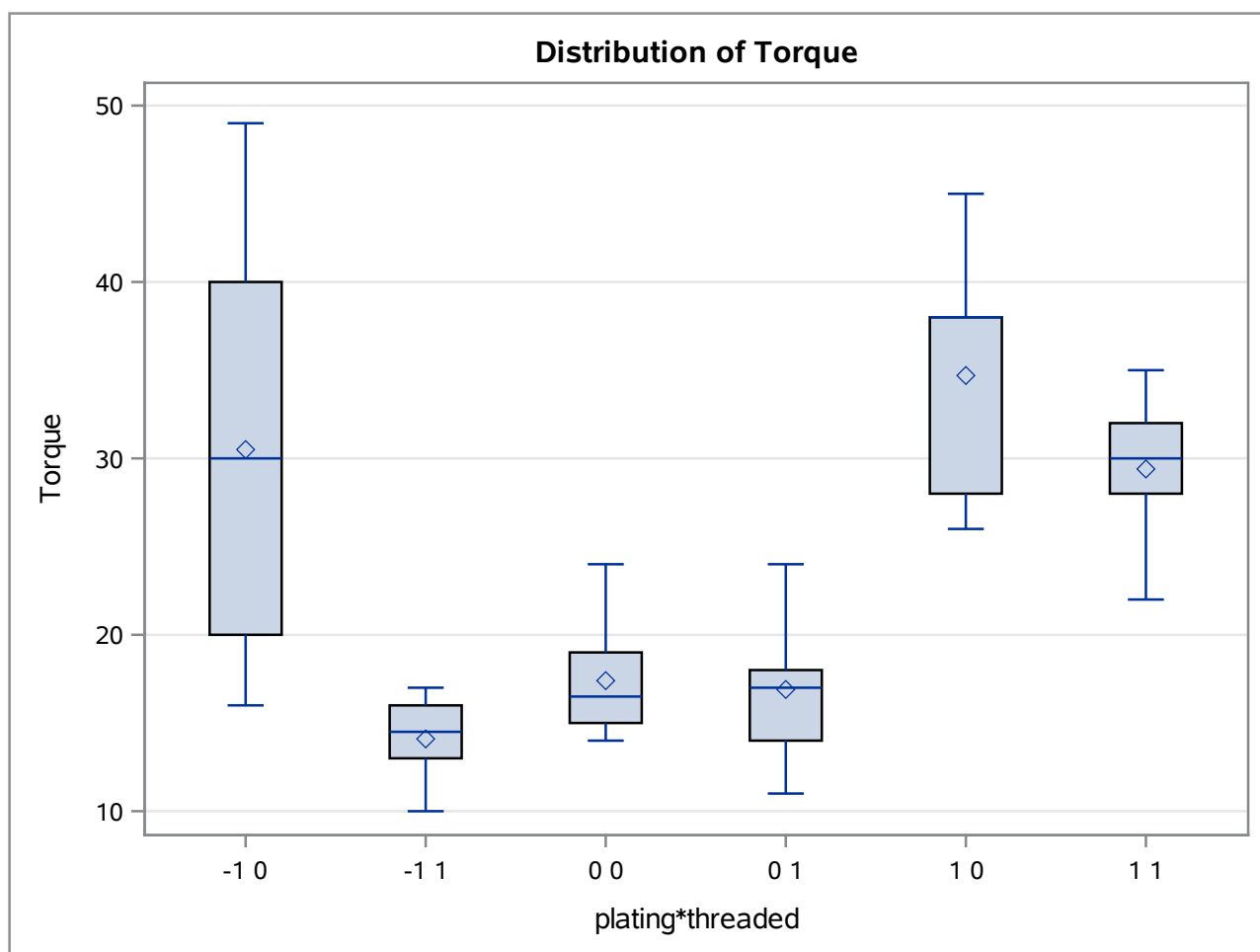
			Torque	
Level of plating	Level of threaded	N	Mean	Std Dev
-1	0	10	30.5000000	11.4624992
-1	1	10	14.1000000	2.2335821
0	0	10	17.4000000	2.9888682
0	1	10	16.9000000	4.2282121
1	0	10	34.7000000	6.6340871
1	1	10	29.4000000	3.5023801

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
plating	3	-1 0 1
threaded	2	0 1

Number of Observations Read	60
Number of Observations Used	60

The GLM Procedure

Dependent Variable: Torque

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3112.033333	1037.344444	22.00	<.0001
Error	56	2640.300000	47.148214		
Corrected Total	59	5752.333333			

R-Square	Coeff Var	Root MSE	Torque Mean
0.541004	28.81030	6.866456	23.83333

Source	DF	Type I SS	Mean Square	F Value	Pr > F
plating	2	2290.633333	1145.316667	24.29	<.0001
threaded	1	821.400000	821.400000	17.42	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
plating	2	2290.633333	1145.316667	24.29	<.0001
threaded	1	821.400000	821.400000	17.42	0.0001

Parameter	Estimate		Standard Error	t Value	Pr > |t|
Intercept	28.35000000	B	1.77291125	15.99	<.0001
plating -1	-9.75000000	B	2.17136396	-4.49	<.0001
plating 0	-14.90000000	B	2.17136396	-6.86	<.0001
plating 1	0.00000000	B	.	.	.
threaded 0	7.40000000	B	1.77291125	4.17	0.0001
threaded 1	0.00000000	B	.	.	.

Note: The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations. Terms whose estimates are followed by the letter 'B' are not uniquely estimable.

The GLM Procedure

Dependent Variable: Torque