

The Mixed Procedure

Model Information	
Data Set	WORK.IMPORT
Dependent Variable	SALDO
Covariance Structure	Diagonal
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Residual

Class Level Information		
Class	Levels	Values
DIETA	2	1 2

Dimensions	
Covariance Parameters	1
Columns in X	9
Columns in Z	0
Subjects	1
Max Obs per Subject	40

Number of Observations	
Number of Observations Read	67
Number of Observations Used	40
Number of Observations Not Used	27

Covariance Parameter Estimates				
Cov Parm	Estimate	Standard Error	Z Value	Pr > Z
Residual	104.61	25.3717	4.12	<.0001

Fit Statistics	
-2 Res Log Likelihood	317.9
AIC (Smaller is Better)	319.9
AICC (Smaller is Better)	320.0
BIC (Smaller is Better)	321.4

The Mixed Procedure

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
DIETA	1	34	0.86	0.3607
GT	1	34	1.93	0.1734
GT*DIETA	1	34	1.03	0.3165
GT*GT	1	34	6.85	0.0131
GT*GT*DIETA	1	34	1.46	0.2345

**The NLIN Procedure
Dependent Variable SALDO
Method: Gauss-Newton**

Iterative Phase			
Iter	a	b	Sum of Squares
0	1.7000	0.00530	60774.3
1	1.0047	0.00870	54898.0
2	0.4291	0.0161	24971.5
3	1.2068	0.0124	21757.8
4	1.3037	0.0155	10015.1
5	1.4500	0.0143	5477.8
6	1.4949	0.0141	5452.1
7	1.4927	0.0141	5452.1
8	1.4928	0.0141	5452.1

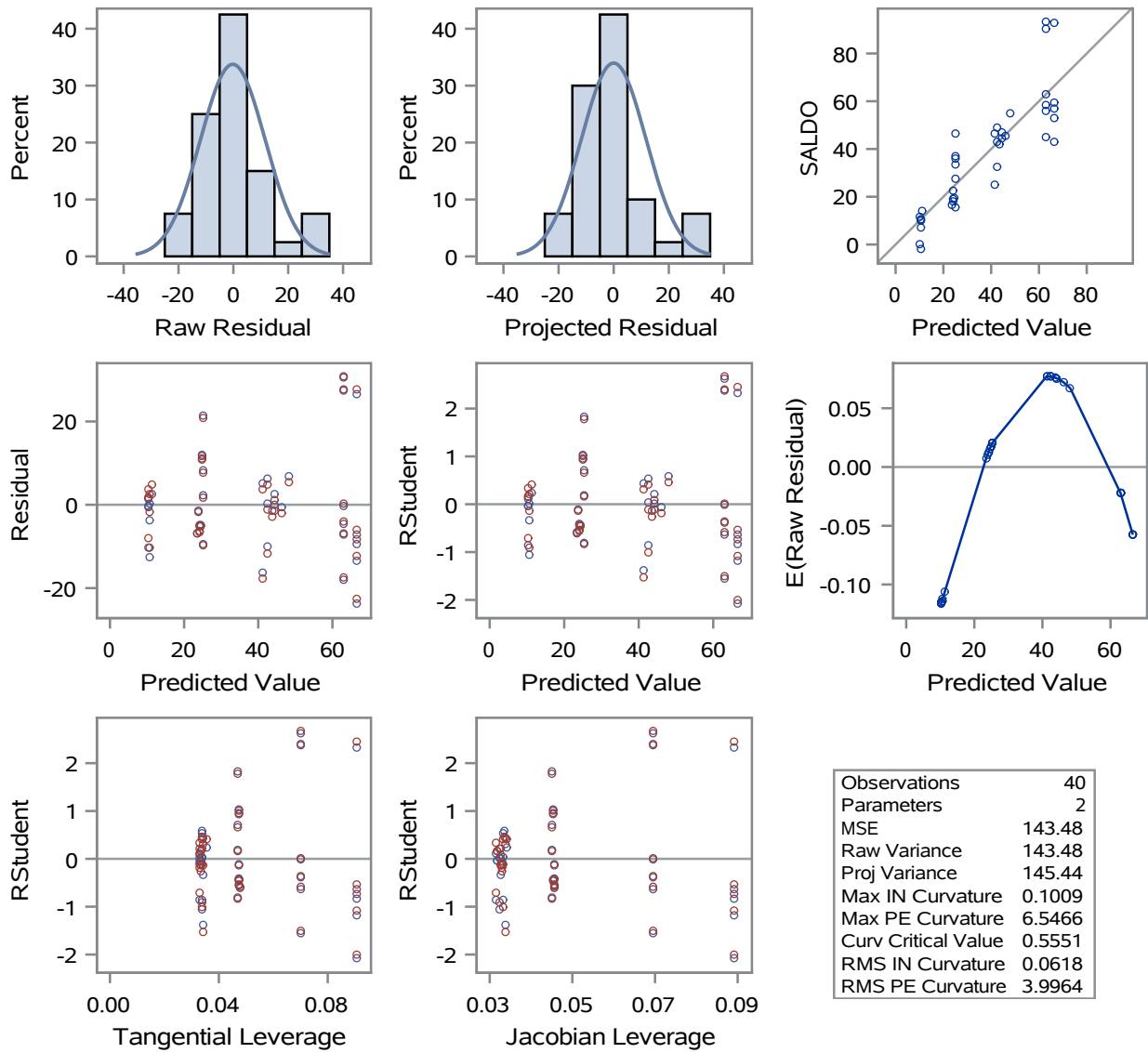
Note: Missing values were generated as a result of performing an operation on missing values. Each place is given by (number of times) AT (statement)/(line):(column).

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NOTE: Convergence criterion met.

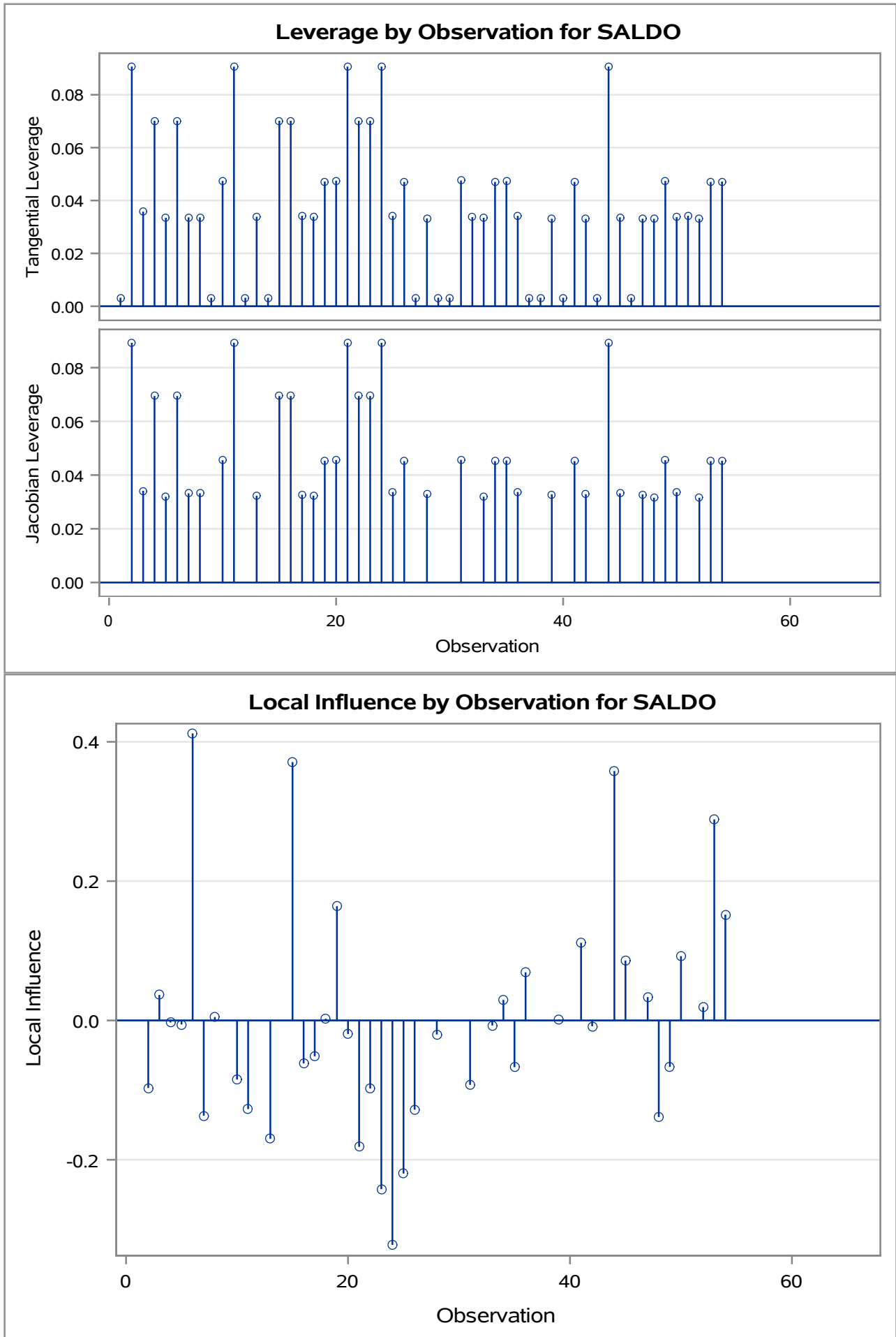
The NLIN Procedure
 Dependent Variable SALDO
 Method: Gauss-Newton

Fit Diagnostics for SALDO



Residual: ○ Raw ○ Projected

The NLIN Procedure
 Dependent Variable SALDO
 Method: Gauss-Newton



The NLIN Procedure

Estimation Summary	
Method	Gauss-Newton
Iterations	8
Subiterations	4
Average Subiterations	0.5
R	1.585E-6
PPC(a)	4.43E-6
RPC(a)	0.00009
Object	9.67E-10
Objective	5452.056
Observations Read	67
Observations Used	40
Observations Missing	27

Note: An intercept was not specified for this model.

Source	DF	Sum of Squares	Mean Square	F Value	Approx Pr > F
Model	2	72547.4	36273.7	252.82	<.0001
Error	38	5452.1	143.5		
Uncorrected Total	40	77999.4			

Parameter	Estimate	Approx Std Error	Approximate 95% Confidence Limits	
a	1.4928	0.6805	0.1152	2.8704
b	0.0141	0.00179	0.0104	0.0177

Approximate Correlation Matrix		
	a	b
a	1.0000000	-0.9952300
b	-0.9952300	1.0000000

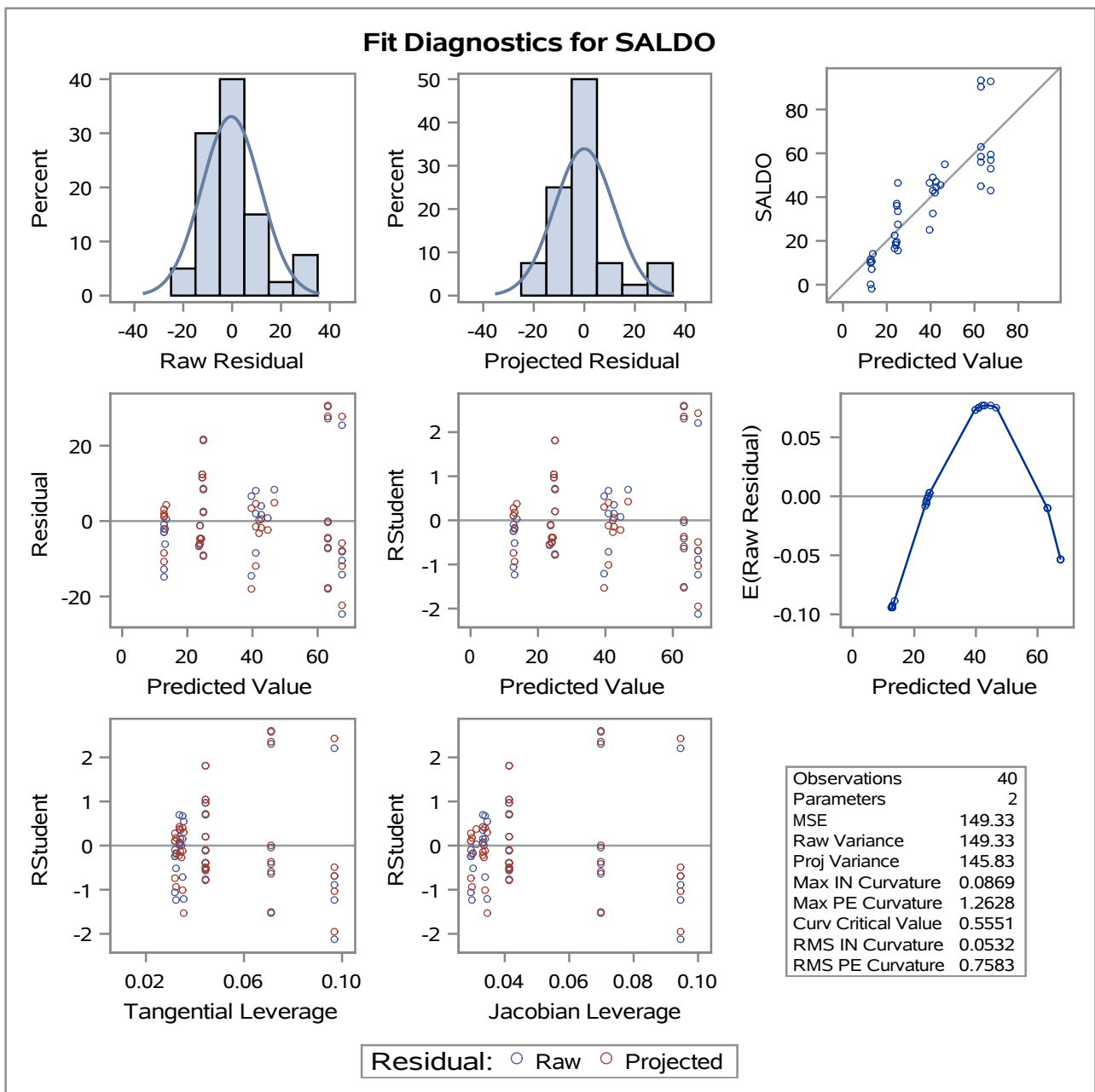
The NLIN Procedure
 Dependent Variable SALDO
 Method: Gauss-Newton

Iterative Phase			
Iter	a	b	Sum of Squares
0	1.7000	0.00530	28245.4
1	1.7816	0.00490	6587.4
2	1.8849	0.00473	5678.3
3	1.8799	0.00472	5674.4
4	1.8792	0.00472	5674.4
5	1.8793	0.00472	5674.4

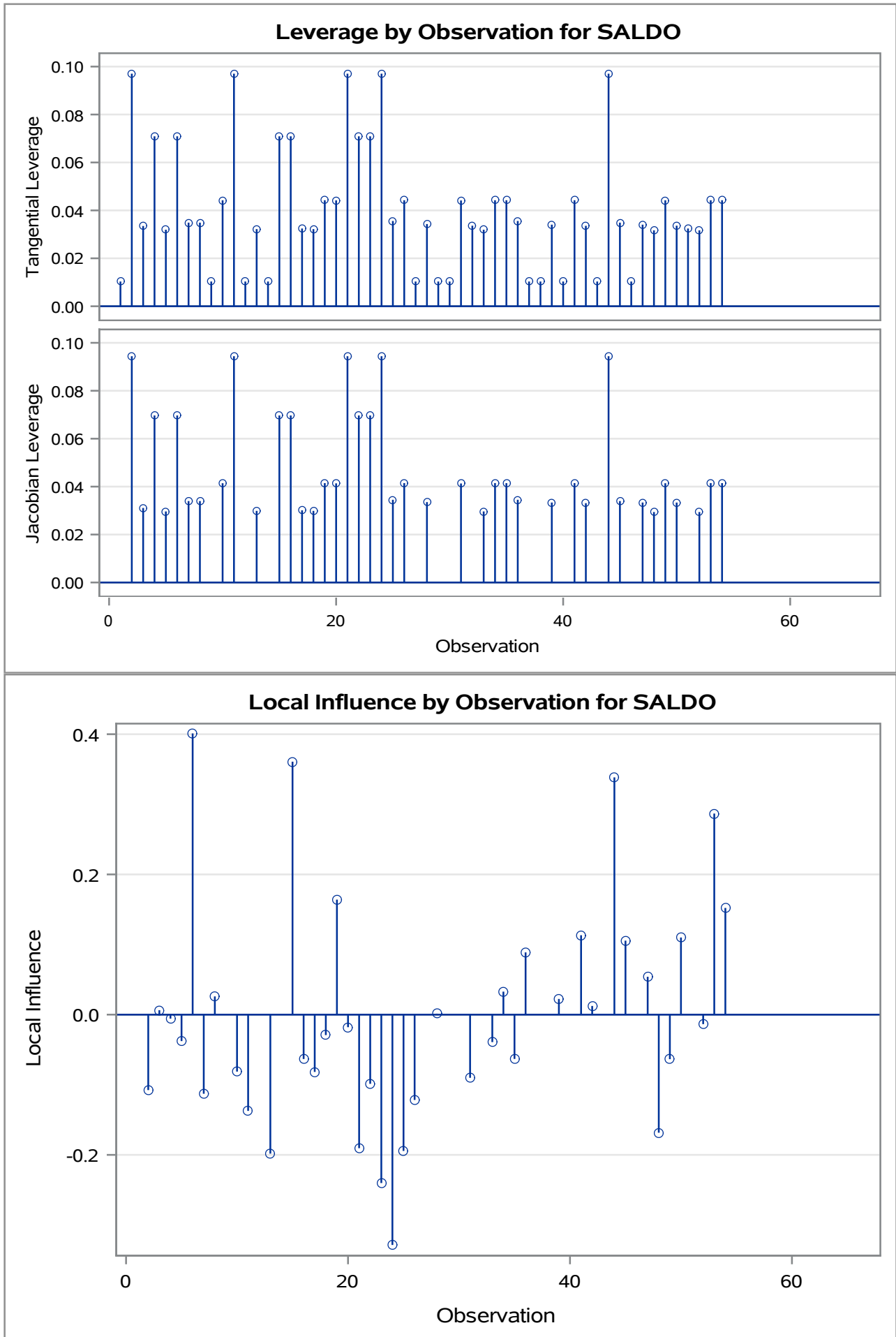
Note: Missing values were generated as a result of performing an operation on missing values. Each place is given by (number of times) AT (statement)/(line):(column).

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NOTE: Convergence criterion met.



The NLIN Procedure
 Dependent Variable SALDO
 Method: Gauss-Newton



The NLIN Procedure

Estimation Summary	
Method	Gauss-Newton
Iterations	5
R	1.675E-6
PPC(a)	2.466E-6
RPC(a)	0.000029
Object	3.65E-10
Objective	5674.369
Observations Read	67
Observations Used	40
Observations Missing	27

Note: An intercept was not specified for this model.

Source	DF	Sum of Squares	Mean Square	F Value	Approx Pr > F
Model	2	72325.1	36162.5	242.17	<.0001
Error	38	5674.4	149.3		
Uncorrected Total	40	77999.4			

Parameter	Estimate	Approx Std Error	Approximate 95% Confidence Limits	
a	1.8793	0.4569	0.9543	2.8043
b	0.00472	0.000282	0.00415	0.00529

Approximate Correlation Matrix		
	a	b
a	1.0000000	-0.9823820
b	-0.9823820	1.0000000

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The NLMIXED Procedure

Specifications	
Data Set	WORK.IMPORT
Dependent Variable	SALDO
Distribution for Dependent Variable	Normal
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	40
Observations Not Used	27
Total Observations	67
Parameters	5

Initial Parameters					
a1	b1	a2	b2	S2	Negative Log Likelihood
1.05	0.016	1.05	0.016	363	164.646923

Iteration History					
Iteration	Calls	Negative Log Likelihood	Difference	Maximum Gradient	Slope
1	10	160.1096	4.537315	1776.84	-954518
2	17	160.1096	0.000032	1777.61	-4.59836
3	21	159.7874	0.322177	621.685	-0.46863
4	23	159.7478	0.039574	114.400	-0.09117
5	27	159.7451	0.002748	90.3173	-0.00334
6	31	159.7266	0.018495	298.906	-0.00271
7	35	159.6931	0.033457	626.081	-0.02917
8	38	159.6739	0.019256	107.011	-0.04823
9	41	159.6612	0.01268	177.235	-0.00959
10	44	159.6560	0.005193	60.3519	-0.00586
11	47	159.6555	0.000542	11.5033	-0.00075
12	50	159.6554	0.000067	7.35558	-0.00009
13	52	159.6553	0.000062	21.7703	-0.00008
14	56	159.6549	0.000456	44.6730	-0.00011
15	60	159.6484	0.006515	65.2169	-0.00077
16	63	159.6473	0.001062	41.1439	-0.00246
17	66	159.6468	0.000516	14.2958	-0.00087
18	69	159.6467	0.000087	7.00141	-0.00011

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Iteration History					
Iteration	Calls	Negative Log Likelihood	Difference	Maximum Gradient	Slope
19	73	159.6465	0.00022	20.0753	-0.00014
20	77	159.6445	0.00197	107.248	-0.00028
21	81	159.6339	0.010599	269.561	-0.00297
22	85	159.6010	0.032899	283.581	-0.06503
23	92	159.4020	0.199022	1236.86	-0.04524
24	99	158.5751	0.826831	2402.40	-0.43373
25	101	157.3129	1.262245	3073.78	-7.73699
26	103	153.5467	3.766167	2018.95	-53.8912
27	109	152.5980	0.948749	1476.43	-11.7065
28	112	152.4899	0.108085	628.079	-0.33999
29	115	152.4353	0.054611	632.528	-0.05951
30	119	151.8816	0.553738	2094.06	-0.14397
31	123	151.2319	0.649668	5421.13	-1.57961
32	126	150.8868	0.345057	4255.88	-3.59371
33	128	150.3388	0.54801	2028.89	-3.71084
34	130	149.5470	0.791836	3094.27	-0.96029
35	132	148.8402	0.706789	2460.95	-1.91024
36	137	148.5301	0.310065	966.637	-2.51636
37	139	148.3410	0.189084	1968.20	-0.57389
38	142	148.2629	0.078113	1010.41	-0.29450
39	146	148.0631	0.199843	240.578	-0.29106
40	148	147.9444	0.118719	2943.91	-0.18751
41	152	147.6637	0.280648	340.418	-0.83106
42	154	147.3784	0.285335	2943.41	-0.24647
43	157	147.2991	0.079246	1071.62	-0.37998
44	159	147.2228	0.076313	497.282	-0.13198
45	161	147.1710	0.051792	1998.55	-0.12693
46	163	147.1106	0.06043	475.827	-0.17354
47	165	147.0513	0.059335	153.082	-0.03031
48	168	147.0386	0.012709	298.968	-0.02697
49	171	147.0336	0.004966	471.129	-0.01145
50	175	147.0135	0.020122	864.457	-0.01146
51	178	147.0029	0.010555	560.892	-0.03109
52	180	146.9922	0.010764	387.043	-0.01578
53	182	146.9731	0.019068	214.969	-0.02076
54	185	146.9674	0.005641	42.7898	-0.01762
55	188	146.9656	0.00186	99.3692	-0.00362

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The NLMIXED Procedure

Iteration History					
Iteration	Calls	Negative Log Likelihood	Difference	Maximum Gradient	Slope
56	191	146.9649	0.000637	39.4110	-0.00057
57	194	146.9649	0.000091	2.90577	-0.00018
58	197	146.9649	3.97E-6	3.69359	-7.1E-6
59	200	146.9649	4.034E-7	0.38249	-6.61E-7

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	293.9
AIC (smaller is better)	303.9
AICC (smaller is better)	305.7
BIC (smaller is better)	312.4

Parameter Estimates								
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	95% Confidence Limits		Gradient
a1	1.4697	0.7837	40	1.88	0.0681	-0.1142	3.0536	0.000572
b1	0.01353	0.002096	40	6.46	<.0001	0.009298	0.01777	0.22952
a2	1.4150	0.6643	40	2.13	0.0394	0.07236	2.7577	0.001028
b2	0.01492	0.001845	40	8.09	<.0001	0.01119	0.01865	0.38249
S2	90.9540	20.3442	40	4.47	<.0001	49.8368	132.07	-2.69E-6

Correlation Matrix of Parameter Estimates					
	a1	b1	a2	b2	S2
a1	1.0000	-0.9947	0.0003	-0.0003	-0.0152
b1	-0.9947	1.0000	-0.0003	0.0003	0.0153
a2	0.0003	-0.0003	1.0000	-0.9953	-0.0198
b2	-0.0003	0.0003	-0.9953	1.0000	0.0198
S2	-0.0152	0.0153	-0.0198	0.0198	1.0000

Additional Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper
La1-Ma2	0.05468	1.0272	40	0.05	0.9578	0.05	-2.0214	2.1308
Lb1-Mb2	-0.00139	0.002792	40	-0.50	0.6216	0.05	-0.00703	0.004253

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Correlation Matrix of Additional Estimates		
Label	Corr1	Corr2
La1-Ma2	1.0000	-0.9948
Lb1-Mb2	-0.9948	1.0000

exp x exp testando ad libitum vs mantença DUPLO EXP

The NLMIXED Procedure

Specifications	
Data Set	WORK.IMPORT
Dependent Variable	SALDO
Distribution for Dependent Variable	Normal
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	40
Observations Not Used	27
Total Observations	67
Parameters	5

Initial Parameters					
a1	b1	a2	b2	S2	Negative Log Likelihood
1.9303	0.0051	1.9303	0.0051	363	182.349106

Iteration History					
Iteration	Calls	Negative Log Likelihood	Difference	Maximum Gradient	Slope
1	20	166.1354	16.21375	13294.6	-9.516E7
2	29	165.7967	0.338681	13153.2	-497212
3	33	162.0759	3.720801	15517.8	-2.59522
4	35	160.4310	1.644859	6389.59	-2.56219
5	37	160.2078	0.223242	6708.00	-1.43400
6	39	159.9746	0.233195	967.693	-0.56399
7	42	159.9694	0.005217	131.763	-0.00948
8	45	159.9682	0.001188	191.773	-0.00112
9	49	159.9477	0.020457	877.473	-0.00183
10	52	159.9335	0.014237	394.515	-0.02462
11	55	159.9316	0.001899	32.7448	-0.00376
12	58	159.9315	0.000037	16.7677	-0.00005
13	64	159.9289	0.002691	566.044	-0.00003
14	68	159.9207	0.008143	106.561	-0.00397
15	71	159.9202	0.000499	122.241	-0.00051
16	75	159.9147	0.00549	416.512	-0.00046
17	81	159.7048	0.209954	2973.58	-0.01178
18	85	158.4640	1.240736	4629.57	-1.03360

exp x exp testando ad libitum vs mantença DUPLO EXP

The NLMIXED Procedure

Iteration History					
Iteration	Calls	Negative Log Likelihood	Difference	Maximum Gradient	Slope
19	92	154.5438	3.92025	8229.04	-2.63238
20	98	153.7036	0.840204	7786.08	-5.85993
21	100	153.0672	0.636379	22865.5	-4.01095
22	104	151.4409	1.626317	23170.8	-5.57651
23	106	150.1386	1.302262	27451.2	-10.3811
24	108	148.7337	1.404901	5631.92	-4.19328
25	113	148.5867	0.147037	887.456	-0.78659
26	117	148.1426	0.444099	2742.53	-1.54243
27	120	148.0620	0.080555	344.610	-0.24130
28	123	148.0416	0.020455	396.578	-0.05593
29	126	148.0391	0.002449	139.901	-0.00529
30	129	148.0391	0.000054	18.7339	-0.00012
31	132	148.0391	1.333E-6	1.61439	-2.78E-6
32	135	148.0391	9.329E-9	0.10833	-1.77E-8

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	296.1
AIC (smaller is better)	306.1
AICC (smaller is better)	307.8
BIC (smaller is better)	314.5

Parameter Estimates								
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	95% Confidence Limits		Gradient
a1	1.7416	0.4869	40	3.58	0.0009	0.7575	2.7257	-0.00008
b1	0.004636	0.000329	40	14.08	<.0001	0.003970	0.005301	-0.10833
a2	1.9888	0.4751	40	4.19	0.0002	1.0287	2.9490	-0.00002
b2	0.004850	0.000265	40	18.27	<.0001	0.004313	0.005386	-0.03948
S2	95.9735	21.4792	40	4.47	<.0001	52.5625	139.38	-9.7E-7

exp x exp testando ad libitum vs mantença DUPLO EXP

The NLMIXED Procedure

Correlation Matrix of Parameter Estimates					
	a1	b1	a2	b2	S2
a1	1.0000	-0.9792	0.0008	-0.0008	-0.0245
b1	-0.9792	1.0000	-0.0008	0.0008	0.0250
a2	0.0008	-0.0008	1.0000	-0.9808	-0.0329
b2	-0.0008	0.0008	-0.9808	1.0000	0.0335
S2	-0.0245	0.0250	-0.0329	0.0335	1.0000

Additional Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper
La1-Ma2	-0.2472	0.6800	40	-0.36	0.7181	0.05	-1.6216	1.1271
Lb1-Mb2	-0.00021	0.000423	40	-0.51	0.6151	0.05	-0.00107	0.000640

Correlation Matrix of Additional Estimates		
Label	Corr1	Corr2
La1-Ma2	1.0000	-0.9756
Lb1-Mb2	-0.9756	1.0000

EXP SIMPLES modelo reduzido**The NLMIXED Procedure**

Specifications	
Data Set	WORK.IMPORT
Dependent Variable	SALDO
Distribution for Dependent Variable	Normal
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	40
Observations Not Used	27
Total Observations	67
Parameters	3

Initial Parameters			
a	b	S2	Negative Log Likelihood
1.05	0.016	363	164.646923

Iteration History					
Iteration	Calls	Negative Log Likelihood	Difference	Maximum Gradient	Slope
1	15	162.5699	2.076991	2636.00	-824647
2	17	162.2792	0.290714	573.760	-0.46846
3	19	162.2621	0.0171	70.2499	-0.03333
4	26	162.1904	0.071721	261.689	-0.00370
5	28	162.1781	0.012292	589.326	-0.02822
6	30	162.1610	0.017142	17.7545	-0.02329
7	35	162.1556	0.005386	179.693	-0.00709
8	38	162.1544	0.001138	2.27803	-0.00264
9	41	162.1543	0.000156	5.91290	-0.00019
10	44	162.1543	0.000029	11.6563	-0.00002
11	50	162.1519	0.002393	72.9281	-0.00003
12	59	161.9923	0.159573	319.323	-0.00580
13	61	161.8466	0.145733	2058.84	-0.18168
14	65	160.9691	0.877443	4716.47	-2.64664
15	67	159.5009	1.468245	70.9242	-6.72422
16	73	159.1963	0.304593	439.470	-0.84912
17	76	159.1359	0.060376	1734.25	-0.06052
18	80	158.5541	0.581806	3453.43	-0.15085

EXP SIMPLES modelo reduzido

The NLMIXED Procedure

Iteration History					
Iteration	Calls	Negative Log Likelihood	Difference	Maximum Gradient	Slope
19	85	156.9758	1.57833	2660.19	-3.78912
20	91	156.6216	0.354133	5229.34	-2.93134
21	93	156.4121	0.209522	1460.63	-1.95557
22	95	156.0439	0.368178	3456.34	-0.34919
23	98	155.8175	0.226399	4027.67	-0.31767
24	100	155.4601	0.357467	1126.80	-0.63767
25	105	155.2650	0.195085	2136.15	-0.38204
26	107	155.1307	0.134279	587.072	-0.26253
27	112	155.1115	0.01916	1415.26	-0.15911
28	116	155.0615	0.050073	296.482	-0.12318
29	119	155.0555	0.005996	124.654	-0.00445
30	122	155.0549	0.000543	6.01481	-0.00113
31	125	155.0549	0.000011	0.31519	-0.00002
32	128	155.0549	1.059E-7	0.52862	-2.67E-7

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	310.1
AIC (smaller is better)	316.1
AICC (smaller is better)	316.8
BIC (smaller is better)	321.2

Parameter Estimates								
Parameter	Estimate	Standard Error	DF	t Value	Pr > t	95% Confidence Limits		Gradient
a	1.4929	0.6475	40	2.31	0.0264	0.1842	2.8015	0.001495
b	0.01406	0.001705	40	8.25	<.0001	0.01062	0.01751	0.52862
S2	136.30	30.4847	40	4.47	<.0001	74.6906	197.91	1.093E-6

Correlation Matrix of Parameter Estimates			
	a	b	S2
a	1.0000	-0.9950	-0.0199
b	-0.9950	1.0000	0.0200
S2	-0.0199	0.0200	1.0000

EXP SIMPLES modelo reduzido

The REG Procedure
 Model: MODEL1
 Dependent Variable: Pred Predicted Value

Number of Observations Read	67
Number of Observations Used	40
Number of Observations with Missing Values	27

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	12206	12206	117.37	<.0001
Error	38	3951.61647	103.98991		
Corrected Total	39	16157			

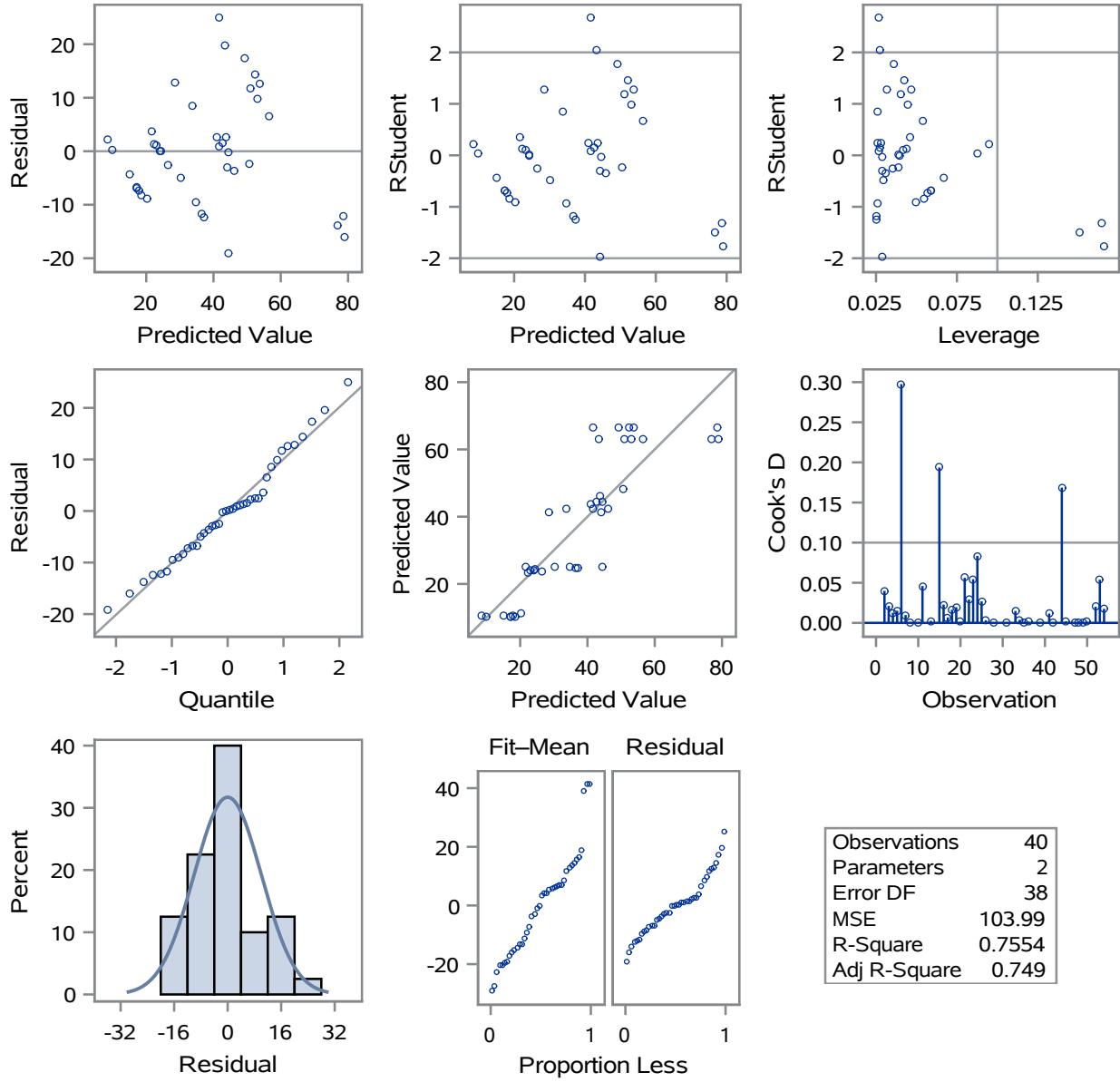
Root MSE	10.19754	R-Square	0.7554
Dependent Mean	37.54691	Adj R-Sq	0.7490
Coeff Var	27.15948		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	9.90300	3.01836	3.28	0.0022
SALDO	SALDO	1	0.74052	0.06835	10.83	<.0001

EXP SIMPLES modelo reduzido

The REG Procedure
 Model: MODEL1
 Dependent Variable: Pred Predicted Value

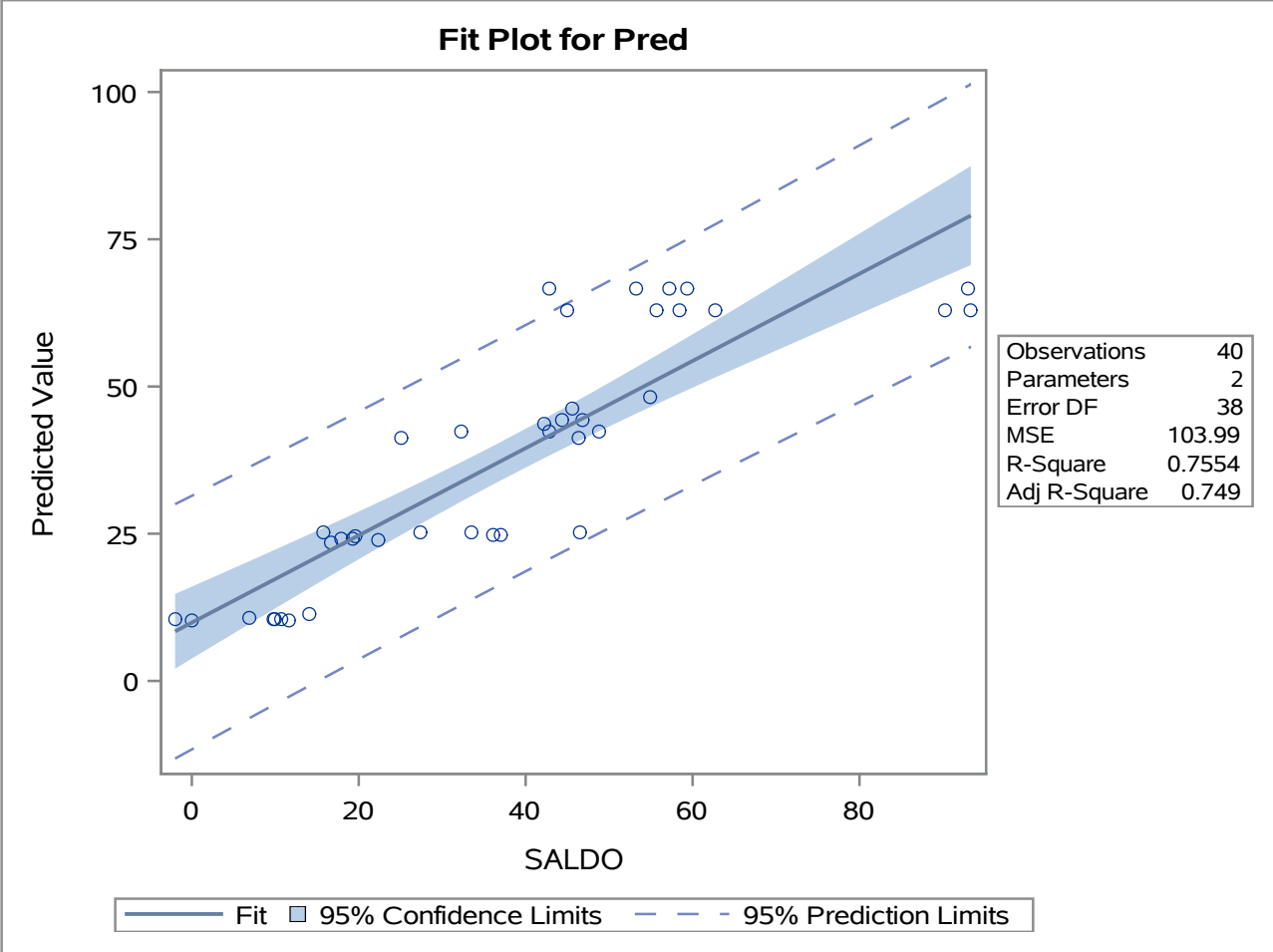
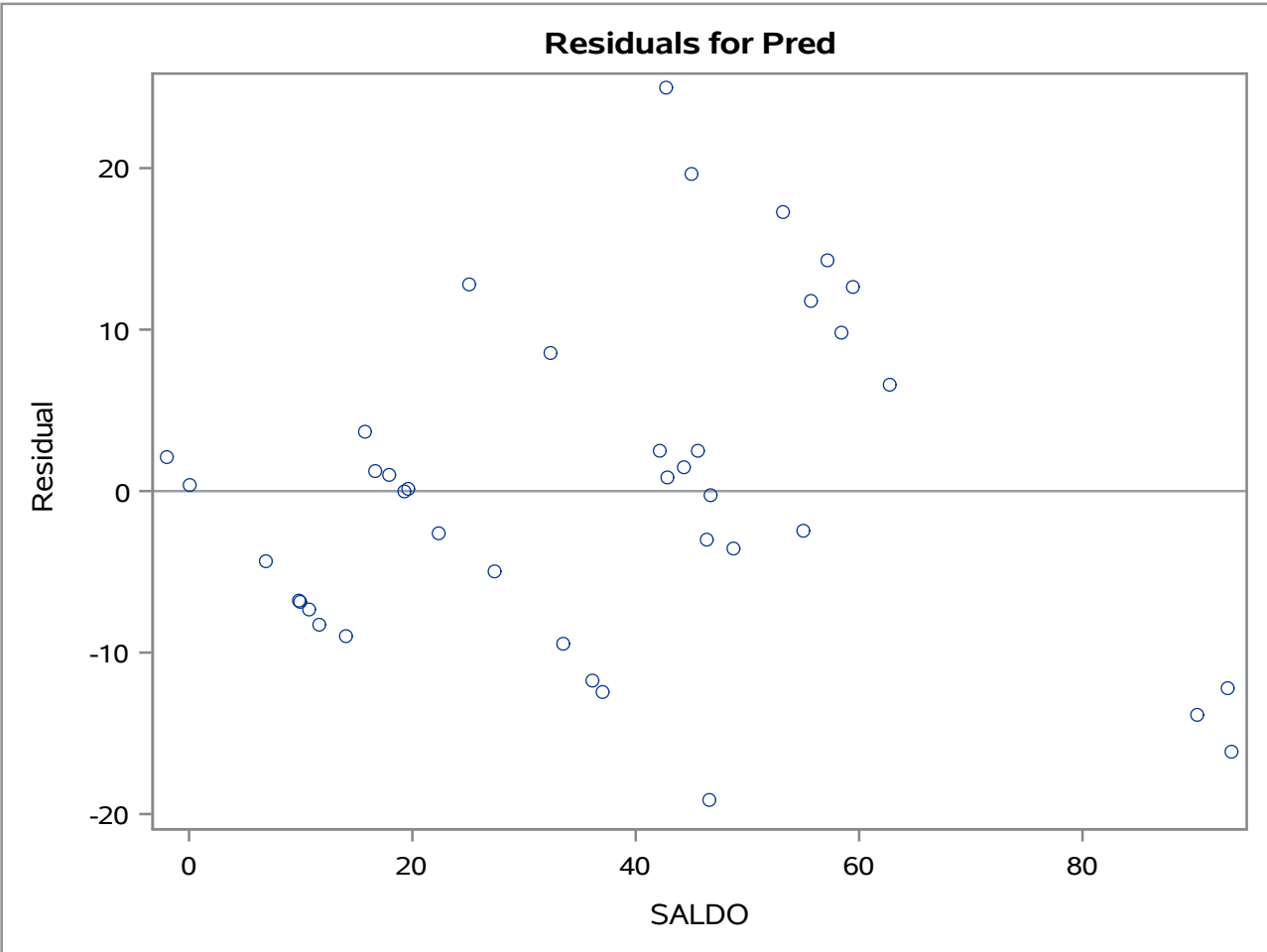
Fit Diagnostics for Pred



Observations	40
Parameters	2
Error DF	38
MSE	103.99
R-Square	0.7554
Adj R-Square	0.749

EXP SIMPLES modelo reduzido

The REG Procedure
Model: MODEL1
Dependent Variable: Pred Predicted Value



EXP SIMPLES modelo reduzido**The MEANS Procedure**

Analysis Variable : MSE				
N	Mean	Std Dev	Minimum	Maximum
40	136.3014097	227.3184195	0.0092131	925.5726751