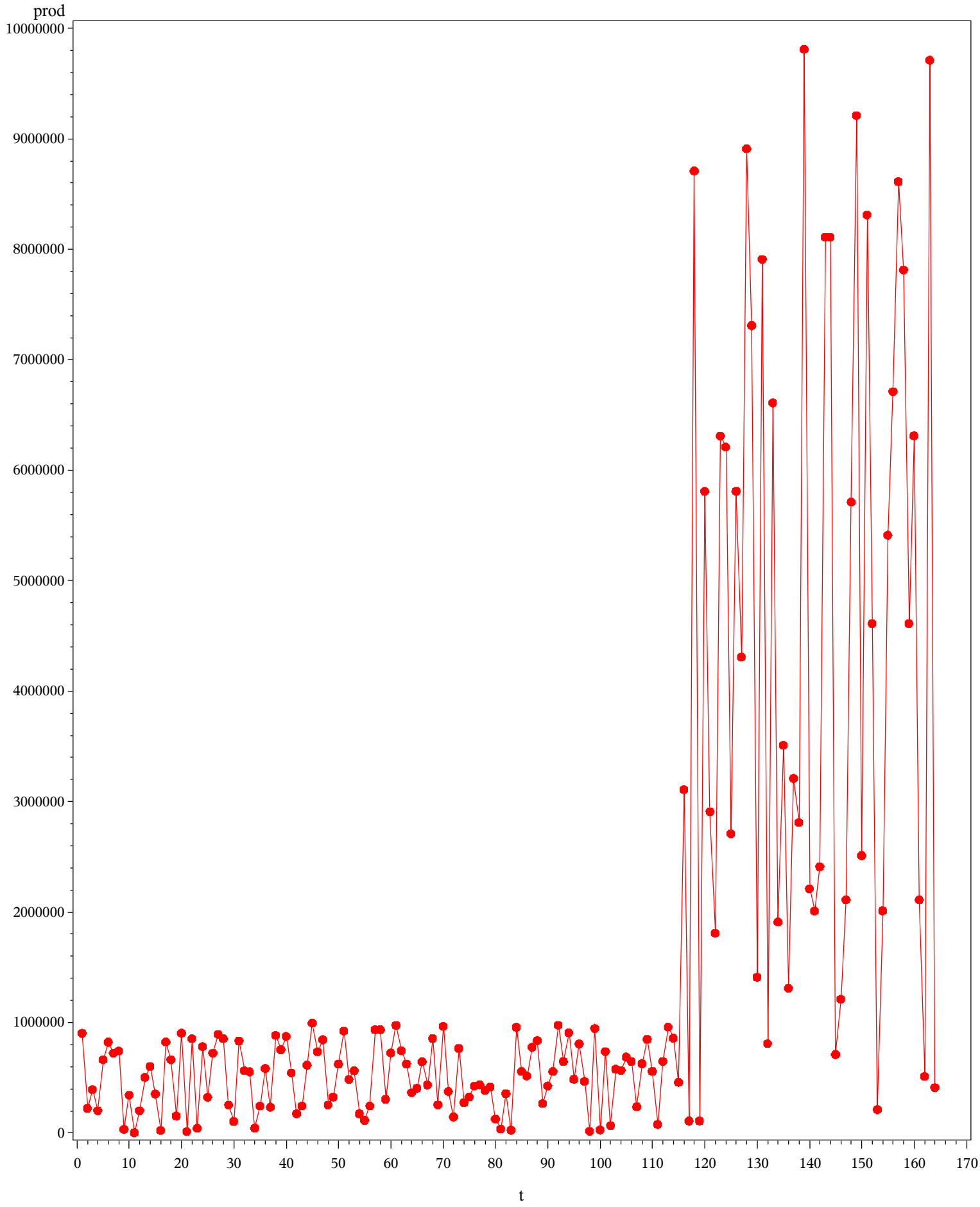
Sorties pour PROC NLMIXED



The ARIMA Procedure

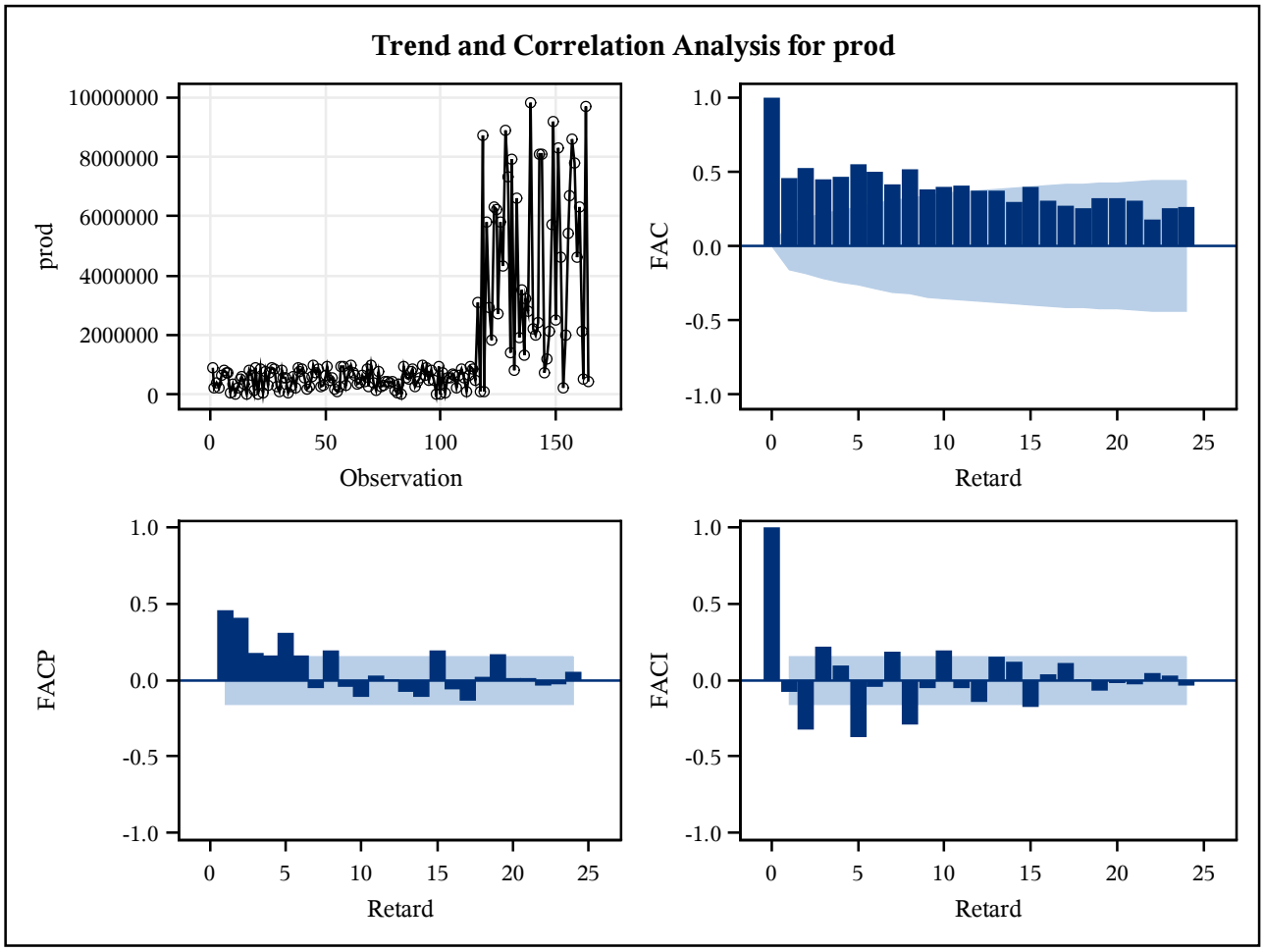
Name of Variable = prod	
Mean of Working Series	1676360
Standard Deviation	2424991
Number of Observations	164

Autocorrelation Check for White Noise									
To Lag	**Chi-Square**	**DF**	**Pr > Khi-2**	**Autocorrélations**					
6	246.94	6	<.0001	0.457	0.530	0.445	0.463	0.554	0.497
12	431.76	12	<.0001	0.417	0.521	0.382	0.399	0.405	0.370
18	545.22	18	<.0001	0.372	0.298	0.396	0.310	0.273	0.256
24	634.80	24	<.0001	0.322	0.321	0.309	0.181	0.254	0.266

Augmented Dickey-Fuller Unit Root Tests							
Type	**Retards**	**Rho**	**Pr < Rho**	**Tau**	**Pr < Tau**	**F**	**Pr > F**
Zero Mean	0	-59.8579	<.0001	-6.04	<.0001		
	1	-19.1457	0.0018	-2.97	0.0032		
	2	-11.9351	0.0153	-2.25	0.0238		
	3	-7.6785	0.0540	-1.76	0.0743		
	4	-2.7100	0.2572	-0.94	0.3099		
	5	-1.3409	0.4172	-0.56	0.4707		
	6	-1.5258	0.3905	-0.61	0.4503		
Single Mean	0	-88.4593	0.0013	-7.74	<.0001	29.94	0.0010
	1	-34.4714	0.0013	-4.07	0.0015	8.30	0.0010
	2	-23.5235	0.0039	-3.23	0.0205	5.24	0.0313
	3	-16.2368	0.0261	-2.64	0.0871	3.54	0.1685
	4	-6.8568	0.2789	-1.69	0.4323	1.56	0.6743
	5	-4.3182	0.5001	-1.30	0.6287	1.03	0.8080
	6	-4.7264	0.4574	-1.35	0.6082	1.07	0.7973
Trend	0	-137.855	0.0001	-10.73	<.0001	57.53	0.0010
	1	-76.1455	0.0005	-6.10	<.0001	18.59	0.0010
	2	-63.4296	0.0005	-5.08	0.0003	12.93	0.0010
	3	-50.4253	0.0005	-4.31	0.0039	9.30	0.0010
	4	-22.4808	0.0354	-3.03	0.1279	4.62	0.2548

The ARIMA Procedure

Augmented Dickey-Fuller Unit Root Tests							
Type	**Retards**	**Rho**	**Pr < Rho**	**Tau**	**Pr < Tau**	**F**	**Pr > F**
	5	-15.6723	0.1502	-2.57	0.2952	3.36	0.5052
	6	-18.1507	0.0904	-2.66	0.2544	3.60	0.4572



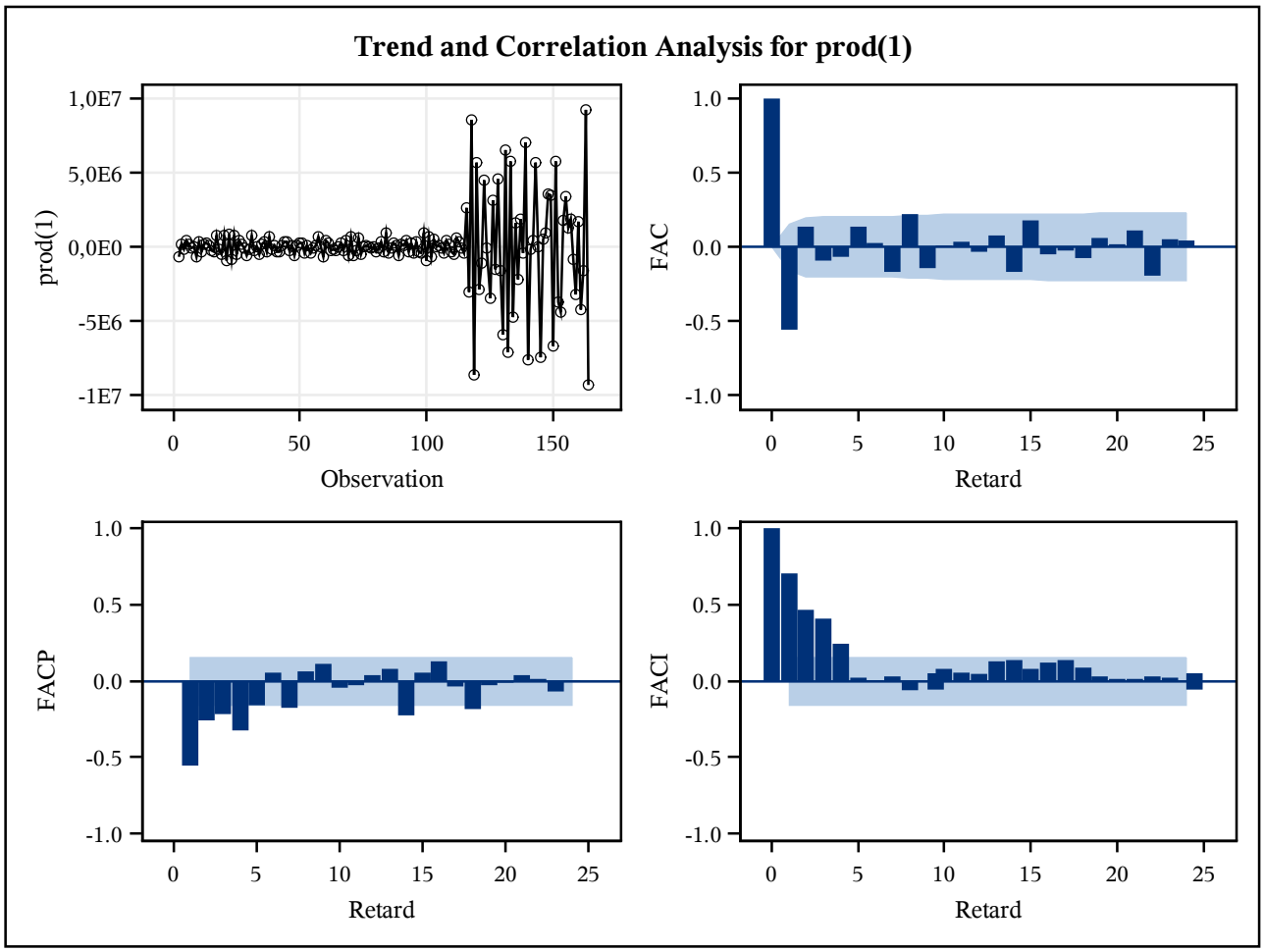
Name of Variable = prod	
Period(s) of Differencing	1
Mean of Working Series	-3012.45
Standard Deviation	2533252
Number of Observations	163
Observation(s) eliminated by differencing	1

The ARIMA Procedure

Autocorrelation Check for White Noise									
To Lag	**Chi-Square**	**DF**	**Pr > Khi-2**	**Autocorrélations**					
6	59.91	6	<.0001	-0.558	0.134	-0.092	-0.063	0.135	0.025
12	77.43	12	<.0001	-0.169	0.221	-0.146	0.007	0.035	-0.029
18	90.83	18	<.0001	0.075	-0.166	0.178	-0.049	-0.023	-0.077
24	101.82	24	<.0001	0.062	0.018	0.107	-0.192	0.056	0.044

Augmented Dickey-Fuller Unit Root Tests							
Type	**Retards**	**Rho**	**Pr < Rho**	**Tau**	**Pr < Tau**	**F**	**Pr > F**
Zero Mean	0	-260.488	0.0001	-24.04	<.0001		
	1	-439.056	0.0001	-14.38	<.0001		
	2	-3059.35	0.0001	-11.68	<.0001		
	3	295.2941	0.9999	-12.61	<.0001		
	4	182.6672	0.9999	-10.73	<.0001		
	5	192.7525	0.9999	-7.82	<.0001		
	6	93.3813	0.9999	-9.04	<.0001		
Single Mean	0	-260.539	0.0001	-23.97	<.0001	287.36	0.0010
	1	-439.447	0.0001	-14.34	<.0001	102.84	0.0010
	2	-3091.28	0.0001	-11.65	<.0001	67.81	0.0010
	3	294.5079	0.9999	-12.59	<.0001	79.20	0.0010
	4	181.7901	0.9999	-10.72	<.0001	57.46	0.0010
	5	189.9575	0.9999	-7.82	<.0001	30.59	0.0010
	6	92.2637	0.9999	-9.08	<.0001	41.25	0.0010
Trend	0	-260.578	0.0001	-23.89	<.0001	285.54	0.0010
	1	-439.580	0.0001	-14.30	<.0001	102.21	0.0010
	2	-3091.00	0.0001	-11.61	<.0001	67.39	0.0010
	3	294.3145	0.9999	-12.55	<.0001	78.75	0.0010
	4	181.4450	0.9999	-10.69	<.0001	57.19	0.0010
	5	188.6405	0.9999	-7.80	<.0001	30.46	0.0010
	6	91.4088	0.9999	-9.10	<.0001	41.42	0.0010

The ARIMA Procedure



Conditional Least Squares Estimation					
Paramètre	**Valeur estimée**	**Erreur type**	**Valeur du test t**	**Approx Pr > |t|**	**Retard**
MU	25010.4	18390.7	1.36	0.1757	0
MA1,1	0.87636	0.03817	22.96	<.0001	1

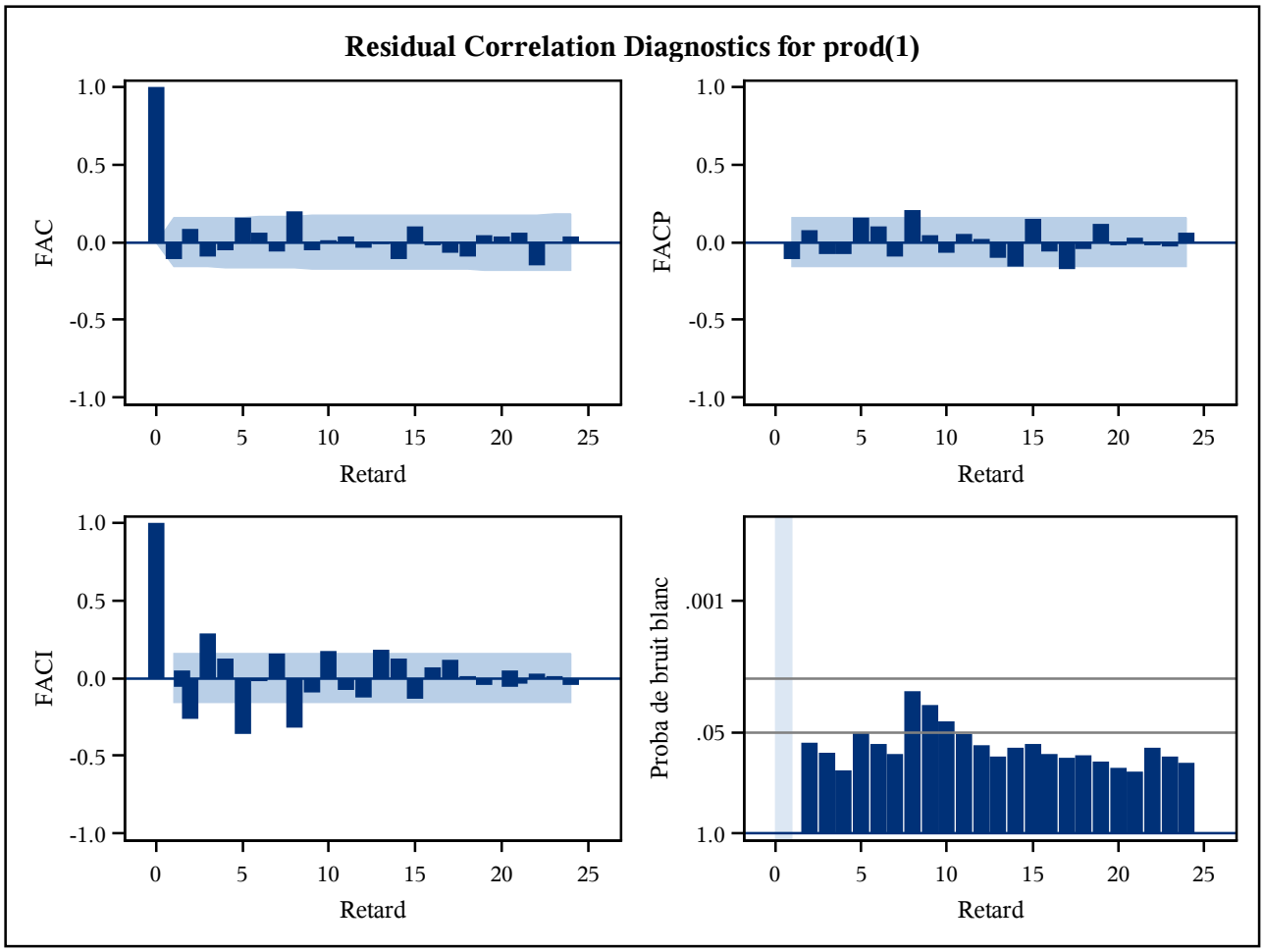
Constant Estimate	25010.39
Variance Estimate	3.364E12
Std Error Estimate	1834041
AIC	5166.144
SBC	5172.332
Number of Residuals	163

**** AIC and SBC do not include log determinant.***

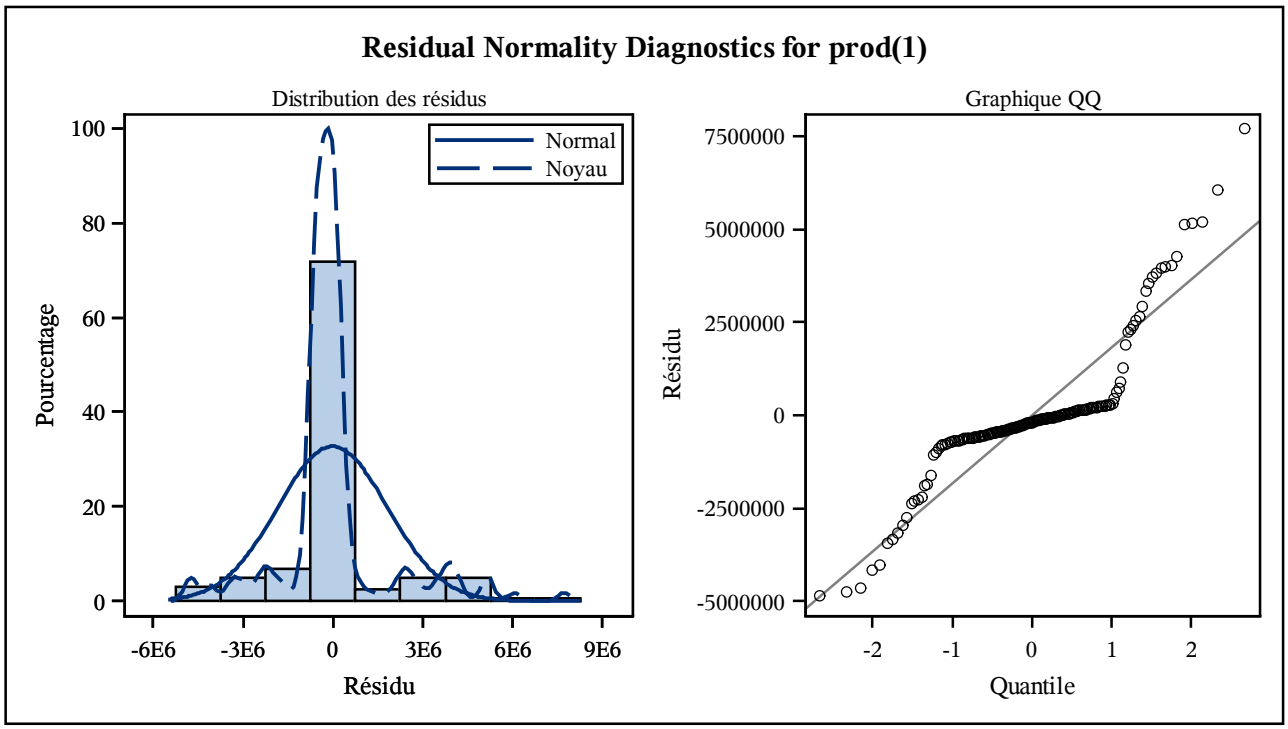
The ARIMA Procedure

Correlations of Parameter Estimates		
Parameter	**MU**	**MA1,1**
MU	1.000	0.024
MA1,1	0.024	1.000

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > Khi-2**	**Autocorrélations**					
6	10.15	5	0.0710	-0.112	0.086	-0.092	-0.055	0.158	0.061
12	18.41	11	0.0725	-0.060	0.196	-0.048	0.016	0.036	-0.037
18	24.88	17	0.0975	-0.008	-0.111	0.098	-0.023	-0.066	-0.092
24	30.90	23	0.1253	0.043	0.038	0.060	-0.153	0.005	0.036
30	32.88	29	0.2826	-0.026	0.038	-0.041	0.060	0.009	0.050



The ARIMA Procedure



Model for variable prod	
Estimated Mean	25010.39
Period(s) of Differencing	1

Moving Average Factors	
Factor 1:	1 - 0.87636 B**(1)

Conditional Least Squares Estimation					
Paramètre	**Valeur estimée**	**Erreur type**	**Valeur du test t**	**Approx Pr > |t|**	**Retard**
MU	19793.4	42965.5	0.46	0.6457	0
AR1,1	-0.88527	0.07459	-11.87	<.0001	1
AR1,2	-0.55314	0.09404	-5.88	<.0001	2
AR1,3	-0.51849	0.09538	-5.44	<.0001	3
AR1,4	-0.40820	0.07964	-5.13	<.0001	4

Constant Estimate	66606.74
Variance Estimate	3.358E12
Std Error Estimate	1832547
AIC	5168.812

The ARIMA Procedure

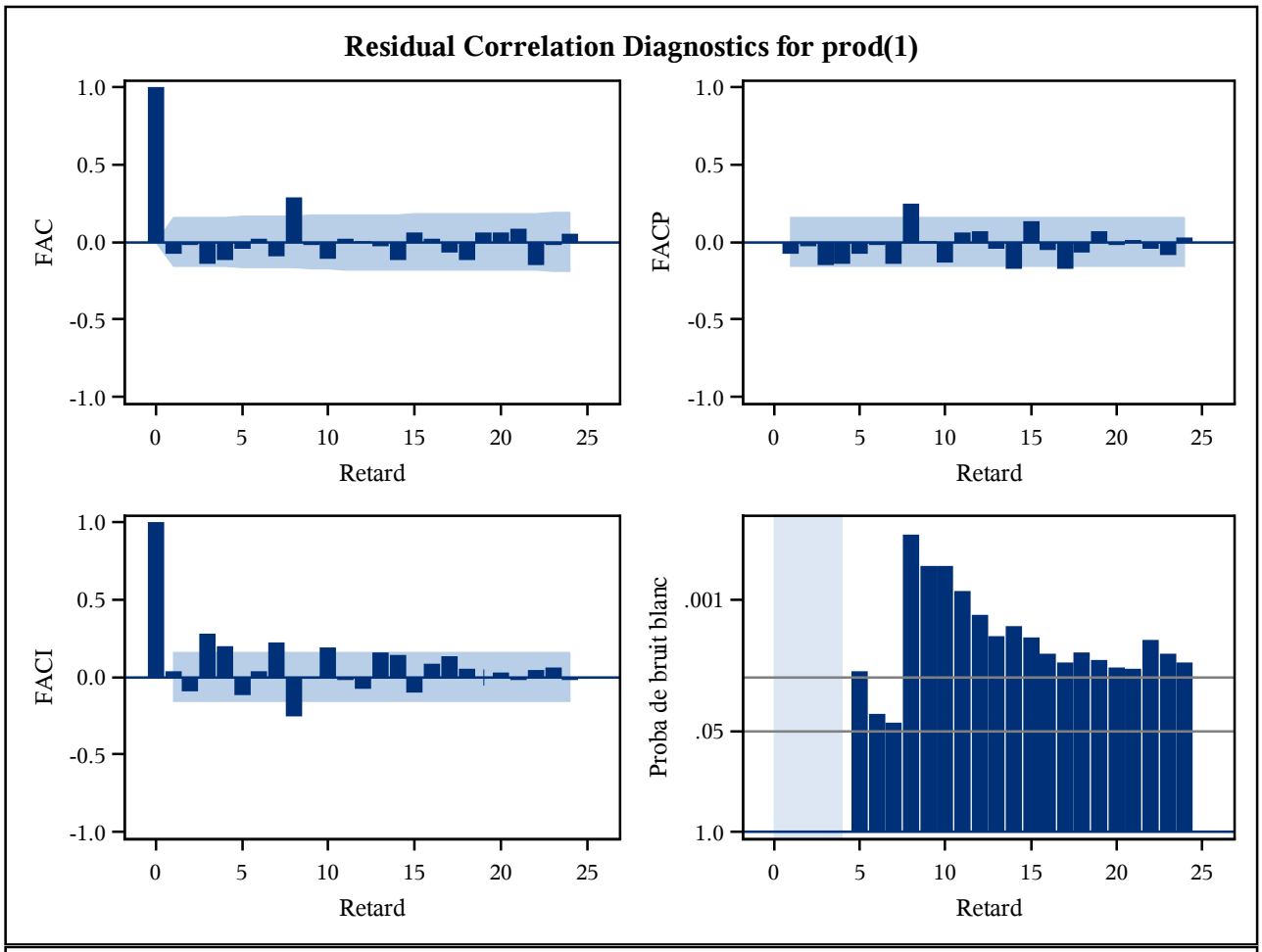
SBC	5184.281
Number of Residuals	163

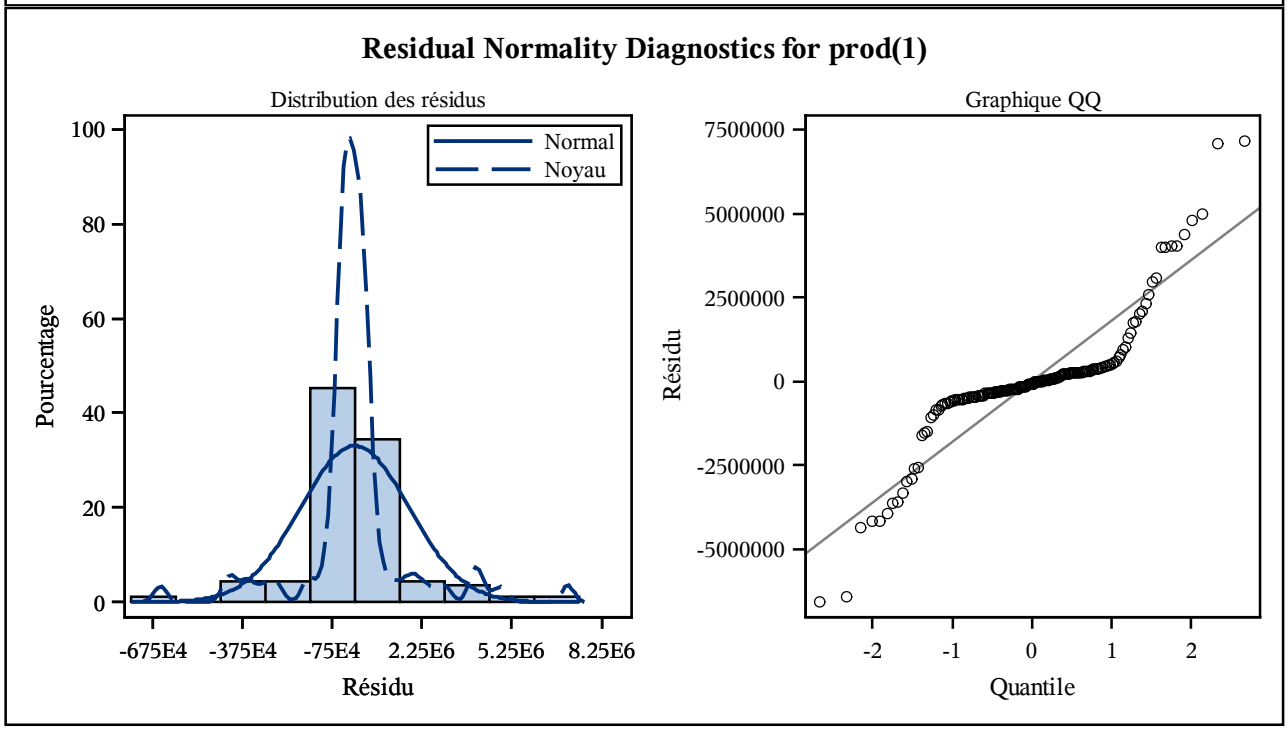
**** AIC and SBC do not include log determinant.***

Correlations of Parameter Estimates					
Parameter	**MU**	**AR1,1**	**AR1,2**	**AR1,3**	**AR1,4**
MU	1.000	-0.010	0.005	0.005	-0.004
AR1,1	-0.010	1.000	0.595	0.323	0.235
AR1,2	0.005	0.595	1.000	0.611	0.281
AR1,3	0.005	0.323	0.611	1.000	0.596
AR1,4	-0.004	0.235	0.281	0.596	1.000

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > Khi-2**	**Autocorrélations**					
6	7.03	2	0.0297	-0.075	-0.022	-0.141	-0.117	-0.042	0.022
12	24.94	8	0.0016	-0.089	0.287	-0.022	-0.109	0.020	0.006
18	31.44	14	0.0048	-0.026	-0.116	0.062	0.021	-0.064	-0.114
24	39.11	20	0.0065	0.063	0.062	0.083	-0.150	-0.017	0.052
30	40.92	26	0.0316	-0.050	0.011	-0.051	0.060	0.012	0.016

The ARIMA Procedure





The ARIMA Procedure

Model for variable prod	
Estimated Mean	19793.38
Period(s) of Differencing	1

Autoregressive Factors	
Factor 1:	1 + 0.88527 B**(1) + 0.55314 B**(2) + 0.51849 B**(3) + 0.4082 B**(4)

Conditional Least Squares Estimation					
Paramètre	**Valeur estimée**	**Erreur type**	**Valeur du test t**	**Approx Pr > |t|**	**Retard**
MU	23708.6	24819.9	0.96	0.3409	0
MA1,1	0.63378	0.11835	5.36	<.0001	1
AR1,1	-0.37719	0.12840	-2.94	0.0038	1
AR1,2	-0.13443	0.12015	-1.12	0.2649	2
AR1,3	-0.29556	0.10431	-2.83	0.0052	3
AR1,4	-0.28491	0.09997	-2.85	0.0050	4

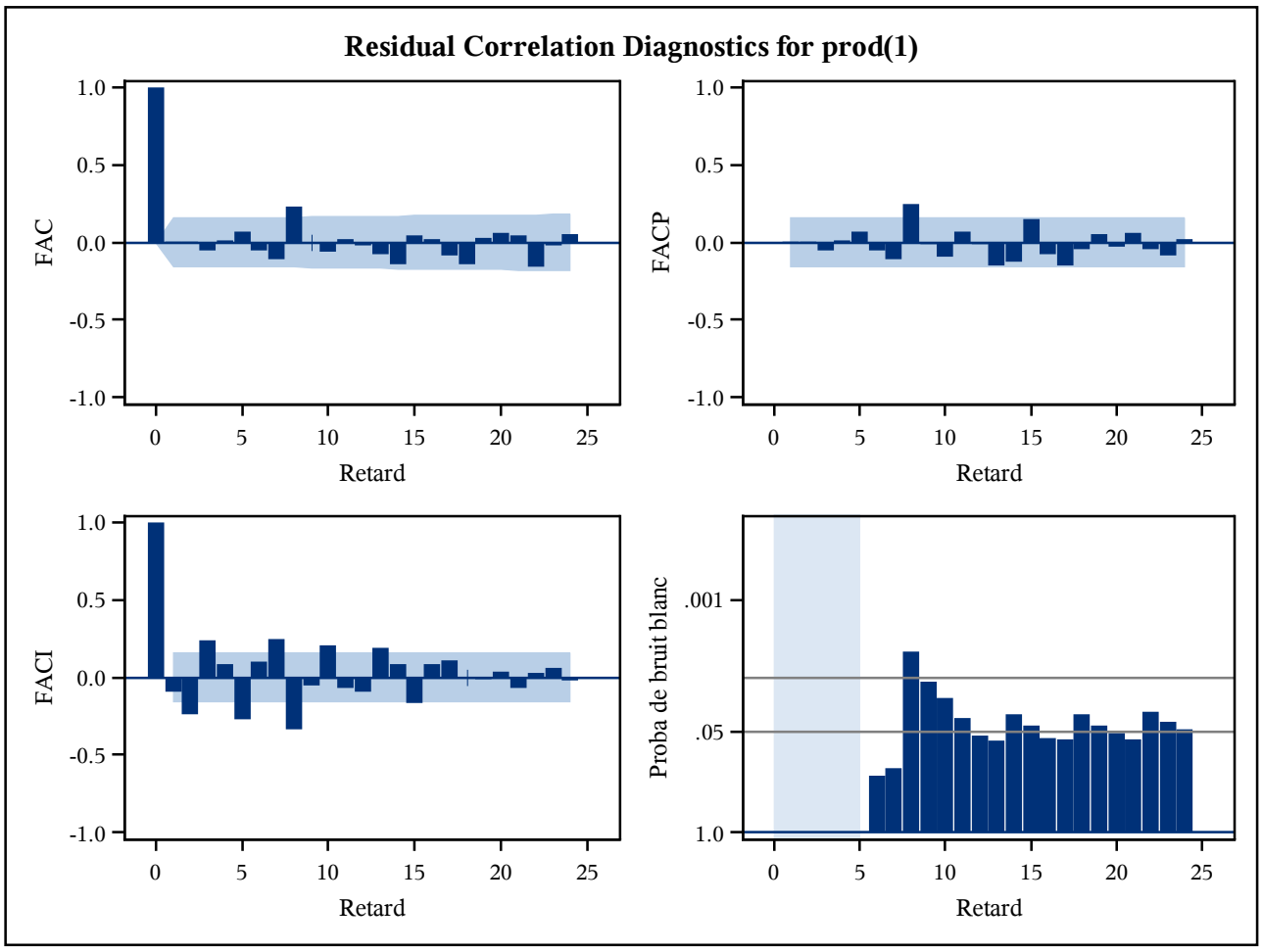
Constant Estimate	49600.71
Variance Estimate	3.18E12
Std Error Estimate	1783364
AIC	5160.909
SBC	5179.471
Number of Residuals	163

**** AIC and SBC do not include log determinant.***

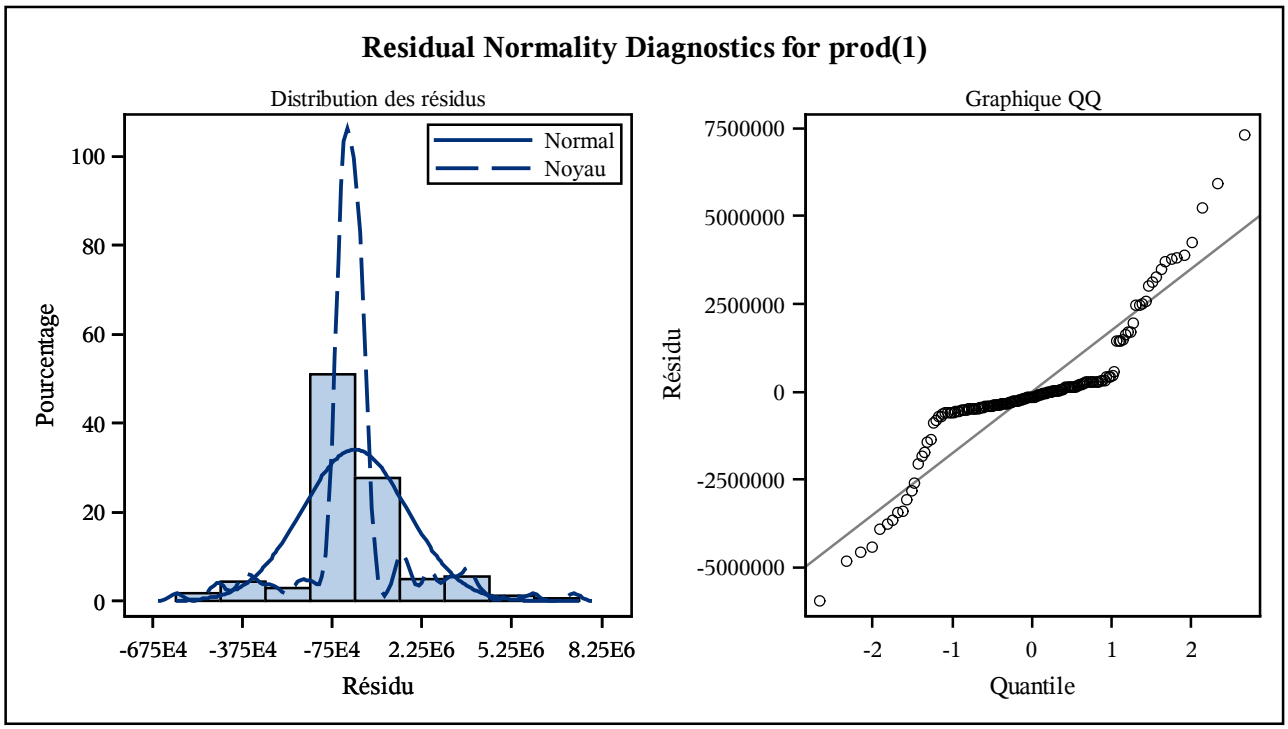
Correlations of Parameter Estimates						
Parameter	**MU**	**MA1,1**	**AR1,1**	**AR1,2**	**AR1,3**	**AR1,4**
MU	1.000	0.045	0.028	0.039	0.024	0.009
MA1,1	0.045	1.000	0.789	0.739	0.610	0.536
AR1,1	0.028	0.789	1.000	0.688	0.550	0.554
AR1,2	0.039	0.739	0.688	1.000	0.568	0.448
AR1,3	0.024	0.610	0.550	0.568	1.000	0.499
AR1,4	0.009	0.536	0.554	0.448	0.499	1.000

The ARIMA Procedure

Autocorrelation Check of Residuals									
To Lag	**Chi-Square**	**DF**	**Pr > Khi-2**	**Autocorrélations**					
6	1.77	1	0.1835	0.007	0.007	-0.054	0.013	0.069	-0.050
12	13.77	7	0.0554	-0.109	0.230	-0.000	-0.060	0.019	-0.022
18	24.12	13	0.0300	-0.074	-0.144	0.045	0.021	-0.084	-0.144
24	30.45	19	0.0464	0.029	0.057	0.049	-0.154	-0.020	0.051
30	32.86	25	0.1346	-0.038	0.018	-0.028	0.076	0.031	0.053



The ARIMA Procedure



Model for variable prod	
Estimated Mean	23708.63
Period(s) of Differencing	1

Autoregressive Factors	
Factor 1:	1 + 0.37719 B**(1) + 0.13443 B**(2) + 0.29556 B**(3) + 0.28491 B**(4)

Moving Average Factors	
Factor 1:	1 - 0.63378 B**(1)

Procédure LOGISTIC

Informations sur le modèle	
Table	WORK.EXO2
Variable de réponse	status
Nombre de niveaux de réponse	2
Modèle	logit binaire
Technique d'optimisation	Score de Fisher

Nombre d'observations lues	137
Nombre d'observations utili	137

Procédure LOGISTIC

Profil de réponse		
Valeur ordonnée	**status**	**Fréquence totale**
1	1	128
2	0	9

La probabilité modélisée est status=1.

Informations sur le niveau de classe				
Classe	**Valeur**	**Variables d'expérience**		
trait	**1**	1		
	2	-1		
cell	**1**	1	0	0
	2	0	1	0
	3	0	0	1
	4	-1	-1	-1
therapie	**0**	1		
	10	-1		

Etat de convergence du modèle
Critère de convergence (GCONV=1E-8) respecté.

Statistiques d'ajustement du modèle		
Critère	**Constante uniquement**	**Constante et covariables**
AIC	68.405	76.365
SC	71.325	102.645
-2 Log	66.405	58.365

Procédure LOGISTIC

Test de l'hypothèse nulle globale : BETA=0			
Test	**Khi-2**	**DDL**	**Pr > Khi-2**
Rapport de vrais	8.0402	8	0.4296
Score	7.0996	8	0.5259
Wald	6.2504	8	0.6192

Analyse des effets Type 3			
Effet	**DDL**	**Khi-2 de Wald**	**Pr > Khi-2**
trait	1	0.1921	0.6612
cell	3	2.3683	0.4996
score	1	3.1608	0.0754
mois	1	0.4929	0.4827
age	1	0.7596	0.3835
therapie	1	0.2154	0.6426

Estimations par l'analyse du maximum de vraisemblance						
Paramètre		**DDL**	**Valeur estimée**	**Erreur type**	**Khi-2 de Wald**	**Pr > Khi-2**
Intercept		1	3.4793	2.7121	1.6457	0.1995
trait	**1**	1	-0.1694	0.3866	0.1921	0.6612
cell	**1**	1	-0.8387	0.6090	1.8966	0.1685
cell	**2**	1	-0.4208	0.6386	0.4342	0.5099
cell	**3**	1	0.5657	0.8779	0.4152	0.5193
score		1	-0.0424	0.0239	3.1608	0.0754
mois		1	0.0470	0.0670	0.4929	0.4827
age		1	0.0308	0.0353	0.7596	0.3835
therapie	**0**	1	0.2064	0.4448	0.2154	0.6426

Procédure LOGISTIC

Estimations des rapports de cotes			
Effet	**Valeur estimée du point**	**Intervalle de confiance de Wald à 95 %**	
trait 1 vs 2	0.713	0.157	3.243
cell 1 vs 4	0.216	0.020	2.308
cell 2 vs 4	0.328	0.030	3.639
cell 3 vs 4	0.880	0.047	16.457
score	0.958	0.915	1.004
mois	1.048	0.919	1.195
age	1.031	0.962	1.105
therapie 0 vs 10	1.511	0.264	8.639

Association des probabilités prédites et des réponses observées			
Pourcentage concordant	76.8	**D de Somers**	0.544
Pourcentage discordant	22.4	**Gamma**	0.549
Pourcentage lié	0.8	**Tau-a**	0.067
Paires	1152	**c**	0.772

Procédure FREQ

Fréquence
Pourcentage
Pctage en ligne
Pctage en col.

Table de _FROM_ par _INTO_		
FROM(Valeur formatée de la réponse observée)	**_INTO_(Valeur formatée de la réponse prédite)**	
	1	**Total**
0	9 6.57 100.00 6.57	9 6.57
1	128 93.43 100.00 93.43	128 93.43
Total	137 100.00	137 100.00

Procédure LIFETEST

Procédure LIFETEST

Estimations de survie de Kaplan-Meier						
survie		**Survie**	**Défaillance**	**Erreur type de survie**	**Nombre d'échecs**	**Nombre restant**
0.000		1.0000	0	0	0	137
1.000		.	.	.	1	136
1.000		0.9854	0.0146	0.0102	2	135
2.000		0.9781	0.0219	0.0125	3	134
3.000		0.9708	0.0292	0.0144	4	133
4.000		0.9635	0.0365	0.0160	5	132
7.000		.	.	.	6	131
7.000		.	.	.	7	130
7.000		0.9416	0.0584	0.0200	8	129
8.000		.	.	.	9	128
8.000		.	.	.	10	127
8.000		.	.	.	11	126
8.000		0.9124	0.0876	0.0242	12	125
10.000		.	.	.	13	124
10.000		0.8978	0.1022	0.0259	14	123
11.000		0.8905	0.1095	0.0267	15	122
12.000		.	.	.	16	121
12.000		0.8759	0.1241	0.0282	17	120
13.000		.	.	.	18	119
13.000		0.8613	0.1387	0.0295	19	118
15.000		.	.	.	20	117
15.000		0.8467	0.1533	0.0308	21	116
16.000		0.8394	0.1606	0.0314	22	115
18.000		.	.	.	23	114
18.000		.	.	.	24	113
18.000		0.8175	0.1825	0.0330	25	112
19.000		.	.	.	26	111
19.000		0.8029	0.1971	0.0340	27	110
20.000		.	.	.	28	109
20.000		0.7883	0.2117	0.0349	29	108

Procédure LIFETEST

Estimations de survie de Kaplan-Meier						
survie		Survie	Défaillance	Erreur type de survie	Nombre d'échecs	Nombre restant
21.000		.	.	.	30	107
21.000		0.7737	0.2263	0.0357	31	106
22.000		0.7664	0.2336	0.0361	32	105
24.000		.	.	.	33	104
24.000		0.7518	0.2482	0.0369	34	103
25.000		.	.	.	35	102
25.000		.	.	.	36	101
25.000		0.7299	0.2701	0.0379	37	100
25.000	*	.	.	.	37	99
27.000		0.7226	0.2774	0.0383	38	98
29.000		0.7152	0.2848	0.0386	39	97
30.000		.	.	.	40	96
30.000		0.7004	0.2996	0.0392	41	95
31.000		.	.	.	42	94
31.000		0.6857	0.3143	0.0397	43	93
33.000		0.6783	0.3217	0.0400	44	92
35.000		0.6709	0.3291	0.0402	45	91
36.000		0.6636	0.3364	0.0404	46	90
42.000		0.6562	0.3438	0.0406	47	89
43.000		0.6488	0.3512	0.0408	48	88
44.000		0.6415	0.3585	0.0410	49	87
45.000		0.6341	0.3659	0.0412	50	86
48.000		0.6267	0.3733	0.0414	51	85
49.000		0.6193	0.3807	0.0416	52	84
51.000		.	.	.	53	83
51.000		.	.	.	54	82
51.000		0.5972	0.4028	0.0420	55	81
52.000		.	.	.	56	80
52.000		.	.	.	57	79
52.000		0.5751	0.4249	0.0423	58	78

Procédure LIFETEST

Estimations de survie de Kaplan-Meier						
survie		**Survie**	**Défaillance**	**Erreur type de survie**	**Nombre d'échecs**	**Nombre restant**
53.000		0.5677	0.4323	0.0424	59	77
54.000		.	.	.	60	76
54.000		0.5530	0.4470	0.0426	61	75
56.000		0.5456	0.4544	0.0427	62	74
59.000		0.5382	0.4618	0.0427	63	73
61.000		0.5309	0.4691	0.0428	64	72
63.000		0.5235	0.4765	0.0428	65	71
72.000		0.5161	0.4839	0.0428	66	70
73.000		0.5087	0.4913	0.0428	67	69
80.000		.	.	.	68	68
80.000		0.4940	0.5060	0.0429	69	67
82.000		0.4866	0.5134	0.0428	70	66
83.000	*	.	.	.	70	65
84.000		0.4791	0.5209	0.0428	71	64
87.000		0.4716	0.5284	0.0428	72	63
87.000	*	.	.	.	72	62
90.000		0.4640	0.5360	0.0428	73	61
92.000		0.4564	0.5436	0.0428	74	60
95.000		.	.	.	75	59
95.000		0.4412	0.5588	0.0427	76	58
97.000	*	.	.	.	76	57
99.000		.	.	.	77	56
99.000		0.4257	0.5743	0.0426	78	55
100.000		0.4180	0.5820	0.0425	79	54
100.000	*	.	.	.	79	53
103.000		0.4101	0.5899	0.0424	80	52
103.000	*	.	.	.	80	51
105.000		0.4021	0.5979	0.0423	81	50
110.000		0.3940	0.6060	0.0422	82	49
111.000		.	.	.	83	48

Procédure LIFETEST

Estimations de survie de Kaplan-Meier						
survie		Survie	Défaillance	Erreur type de survie	Nombre d'échecs	Nombre restant
111.000		0.3779	0.6221	0.0420	84	47
112.000		0.3699	0.6301	0.0419	85	46
117.000		.	.	.	86	45
117.000		0.3538	0.6462	0.0416	87	44
118.000		0.3458	0.6542	0.0414	88	43
122.000		0.3377	0.6623	0.0412	89	42
123.000	*	.	.	.	89	41
126.000		0.3295	0.6705	0.0410	90	40
132.000		0.3213	0.6787	0.0408	91	39
133.000		0.3130	0.6870	0.0406	92	38
139.000		0.3048	0.6952	0.0404	93	37
140.000		0.2965	0.7035	0.0401	94	36
143.000		0.2883	0.7117	0.0398	95	35
144.000		0.2801	0.7199	0.0395	96	34
151.000		0.2718	0.7282	0.0392	97	33
153.000		0.2636	0.7364	0.0389	98	32
156.000		0.2554	0.7446	0.0385	99	31
162.000		.	.	.	100	30
162.000		0.2389	0.7611	0.0378	101	29
164.000		0.2306	0.7694	0.0373	102	28
177.000		0.2224	0.7776	0.0369	103	27
182.000	*	.	.	.	103	26
186.000		0.2139	0.7861	0.0365	104	25
200.000		0.2053	0.7947	0.0360	105	24
201.000		0.1967	0.8033	0.0355	106	23
216.000		0.1882	0.8118	0.0350	107	22
228.000		0.1796	0.8204	0.0344	108	21
231.000		0.1711	0.8289	0.0338	109	20
231.000	*	.	.	.	109	19
242.000		0.1621	0.8379	0.0332	110	18

Procédure LIFETEST

Estimations de survie de Kaplan-Meier						
survie		Survie	Défaillance	Erreur type de survie	Nombre d'échecs	Nombre restant
250.000		0.1531	0.8469	0.0326	111	17
260.000		0.1441	0.8559	0.0319	112	16
278.000		0.1351	0.8649	0.0311	113	15
283.000		0.1261	0.8739	0.0303	114	14
287.000		0.1171	0.8829	0.0295	115	13
314.000		0.1081	0.8919	0.0285	116	12
340.000		0.0990	0.9010	0.0275	117	11
357.000		0.0900	0.9100	0.0265	118	10
378.000		0.0810	0.9190	0.0253	119	9
384.000		0.0720	0.9280	0.0240	120	8
389.000		0.0630	0.9370	0.0227	121	7
392.000		0.0540	0.9460	0.0211	122	6
411.000		0.0450	0.9550	0.0194	123	5
467.000		0.0360	0.9640	0.0175	124	4
553.000		0.0270	0.9730	0.0153	125	3
587.000		0.0180	0.9820	0.0126	126	2
991.000		0.00900	0.9910	0.00894	127	1
999.000		0	1.0000	.	128	0

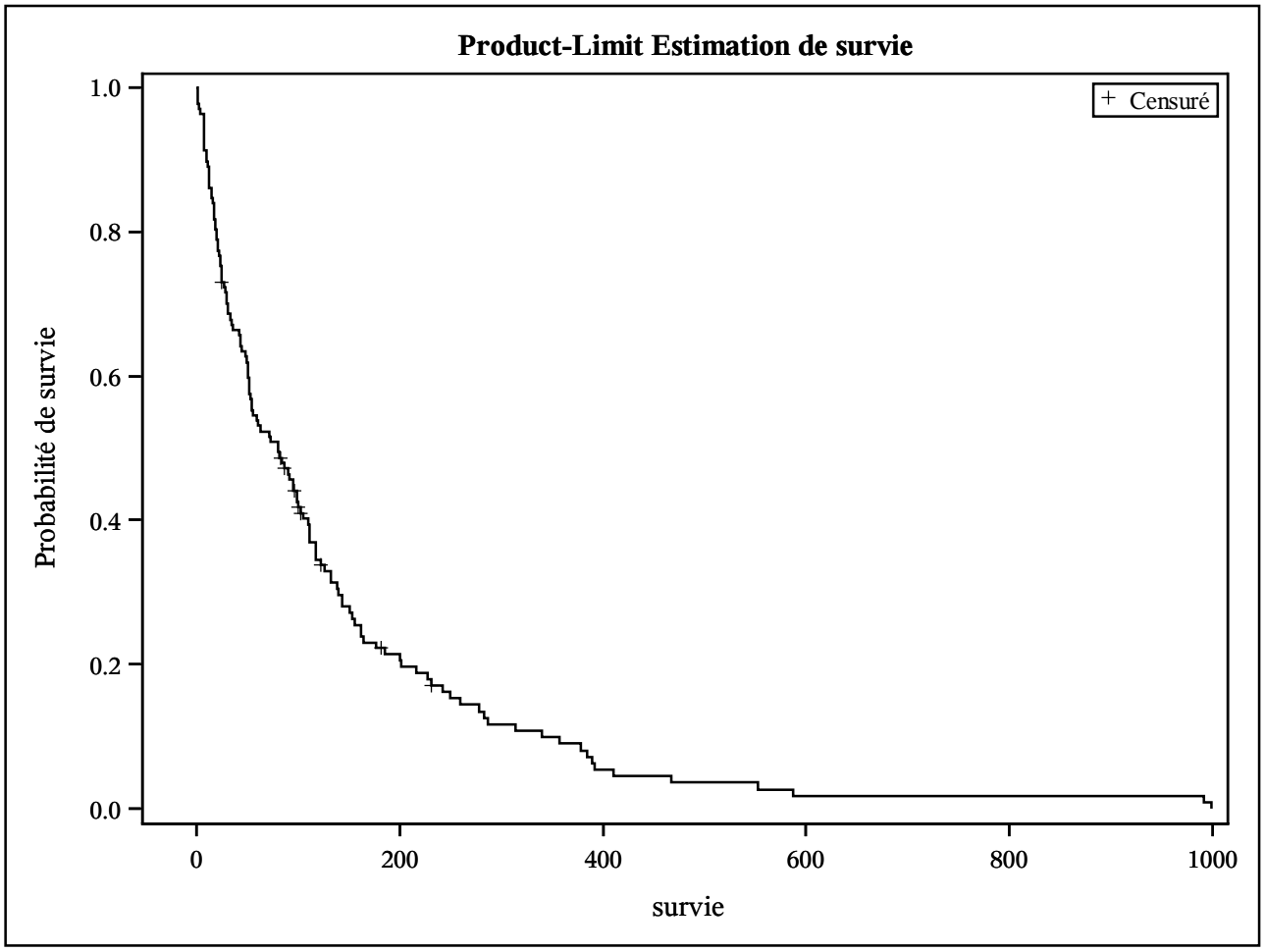
Note: The marked survival times are censored observations.

Statistiques descriptives pour variable temps survie

Estimations du quartile				
		Intervalle de confiance à 95 %		
Pourcentage	Valeur estimée du point	Transformation	[Inférieur	Supérieur)
75	162.000	LOGLOG	132.000	231.000
50	80.000	LOGLOG	52.000	100.000
25	25.000	LOGLOG	18.000	33.000

Procédure LIFETEST

Moyenne	Erreur type
132.777	15.368



Récapitulatif du nombre de valeurs censurées et non censurées			
Total	Echec	Censuré	Pourcentage censuré
137	128	9	6.57

The PHREG Procedure

Informations sur le modèle	
Data Set	WORK.EXO2
Dependent Variable	survie
Censoring Variable	status
Censoring Value(s)	0
Ties Handling	BRESLOW

The PHREG Procedure

Number of Observations Read	137
Number of Observations Used	137

Informations sur le niveau de classe				
Classe	**Valeur**	**Variables d'expérience**		
trait	**1**	1		
	2	0		
cell	**1**	1	0	0
	2	0	1	0
	3	0	0	1
	4	0	0	0
therapie	**0**	1		
	10	0		

Récapitulatif du nombre d'événements et de valeurs censurées			
Total	**Evénement**	**Censuré**	**Pourcentage censuré**
137	128	9	6.57

Etat de convergence
Convergence criterion (GCONV=1E-8) satisfied.

Statistiques d'ajustement du modèle		
Critère	**Sans covariables**	**Avec covariables**
-2 LOG L	1011.768	950.359
AIC	1011.768	966.359
SBC	1011.768	989.175

The PHREG Procedure

Test de l'hypothèse nulle globale : BETA=0			
Test	**Khi-2**	**DDL**	**Pr > Khi-2**
Likelihood Ratio	61.4091	8	<.0001
Score	65.9173	8	<.0001
Wald	61.6475	8	<.0001

Tests de type 3			
Effet	**DDL**	**Khi-2 de Wald**	**Pr > Khi-2**
trait	1	1.9579	0.1617
cell	3	17.9164	0.0005
score	1	35.1124	<.0001
mois	1	0.0001	0.9920
age	1	0.8443	0.3582
therapie	1	0.0971	0.7554

Estimations par l'analyse du maximum de vraisemblance								
Paramètre		**DDL**	**Valeur estimée des paramètres**	**Erreur type**	**Khi-2**	**Pr > Khi-2**	**Rapport de risque**	**Libellé**
trait	**1**	1	-0.28994	0.20721	1.9579	0.1617	0.748	trait 1
cell	**1**	1	-0.39963	0.28266	1.9988	0.1574	0.671	cell 1
cell	**2**	1	0.45686	0.26627	2.9438	0.0862	1.579	cell 2
cell	**3**	1	0.78867	0.30267	6.7899	0.0092	2.200	cell 3
score		1	-0.03262	0.00551	35.1124	<.0001	0.968	
mois		1	-0.0000916	0.00913	0.0001	0.9920	1.000	
age		1	-0.00855	0.00930	0.8443	0.3582	0.991	
therapie	**0**	1	-0.07232	0.23213	0.0971	0.7554	0.930	therapie 0

The GLM Procedure

Informations sur le niveau de classe		
Classe	**Niveaux**	**Valeurs**
site	6	1 2 3 4 5 6
ozone	9	0 1 1.3 1.5 1.7 2 2.2 2.5 3
faam	4	1 2 3 4

The GLM Procedure

Number of Observations Read	612
Number of Observations Used	450

The GLM Procedure

Dependent Variable: biomass

Source	DDL	Somme des carrés	Moyenne quadratique	Valeur F	Pr > F
Model	29	43496692.83	1499885.96	12.51	<.0001
Error	420	50350199.50	119881.43		
Corrected Total	449	93846892.33			

R-carré	Coef de Var	Racine MSE	biomass Moyenne
0.463486	46.35693	346.2390	746.8979

Source	DDL	Type I SS	Moyenne quadratique	Valeur F	Pr > F
site	5	36212484.30	7242496.86	60.41	<.0001
ozone	8	5862134.41	732766.80	6.11	<.0001
site*ozone	13	1307264.02	100558.77	0.84	0.6187
faam	3	114810.11	38270.04	0.32	0.8115

Source	DDL	Type III SS	Moyenne quadratique	Valeur F	Pr > F
site	5	33603155.59	6720631.12	56.06	<.0001
ozone	8	4977706.83	622213.35	5.19	<.0001
site*ozone	13	1307264.02	100558.77	0.84	0.6187
faam	3	114810.11	38270.04	0.32	0.8115

The GLM Procedure

Informations sur le niveau de classe		
Classe	**Niveaux**	**Valeurs**
site	6	1 2 3 4 5 6
ozone	9	0 1 1.3 1.5 1.7 2 2.2 2.5 3
faam	4	1 2 3 4

The GLM Procedure

Number of Observations Read	612
Number of Observations Used	450

The GLM Procedure

Dependent Variable: biomass

Source	DDL	Somme des carrés	Moyenne quadratique	Valeur F	Pr > F
Model	38	44495906.41	1170944.91	9.75	<.0001
Error	411	49350985.92	120075.39		
Corrected Total	449	93846892.33			

R-carré	Coef de Var	Racine MSE	biomass Moyenne
0.474133	46.39442	346.5190	746.8979

Source	DDL	Type I SS	Moyenne quadratique	Valeur F	Pr > F
site	5	36212484.30	7242496.86	60.32	<.0001
ozone	8	5862134.41	732766.80	6.10	<.0001
site*ozone	13	1307264.02	100558.77	0.84	0.6202
faam(site)	12	1114023.69	92835.31	0.77	0.6784

Source	DDL	Type III SS	Moyenne quadratique	Valeur F	Pr > F
site	5	34265868.22	6853173.64	57.07	<.0001
ozone	8	4977706.83	622213.35	5.18	<.0001
site*ozone	13	1307264.02	100558.77	0.84	0.6202
faam(site)	12	1114023.69	92835.31	0.77	0.6784

The GLM Procedure

Informations sur le niveau de classe		
Classe	**Niveaux**	**Valeurs**
site	6	1 2 3 4 5 6
ozone	9	0 1 1.3 1.5 1.7 2 2.2 2.5 3
faam	4	1 2 3 4

The GLM Procedure

Number of Observations Read	612
Number of Observations Used	450

The GLM Procedure

Dependent Variable: biomass

Source	DDL	Somme des carrés	Moyenne quadratique	Valeur F	Pr > F
Model	13	42074618.70	3236509.13	27.26	<.0001
Error	436	51772273.63	118743.75		
Corrected Total	449	93846892.33			

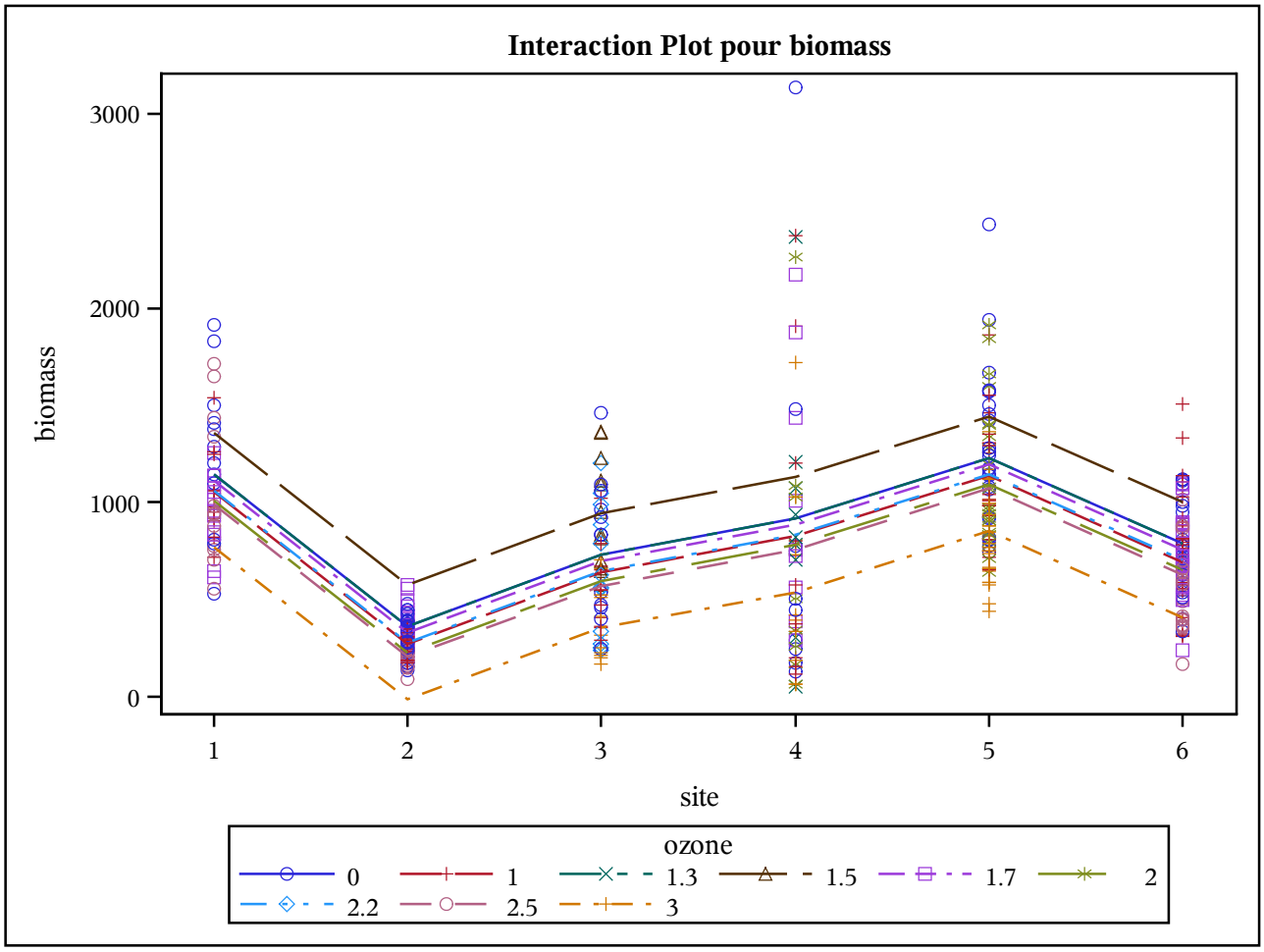
R-carré	Coef de Var	Racine MSE	biomass Moyenne
0.448333	46.13645	344.5921	746.8979

Source	DDL	Type I SS	Moyenne quadratique	Valeur F	Pr > F
site	5	36212484.30	7242496.86	60.99	<.0001
ozone	8	5862134.41	732766.80	6.17	<.0001

Source	DDL	Type III SS	Moyenne quadratique	Valeur F	Pr > F
site	5	34636602.06	6927320.41	58.34	<.0001
ozone	8	5862134.41	732766.80	6.17	<.0001

The GLM Procedure

Dependent Variable: biomass



The NLIN Procedure
Dependent Variable density
Method: Marquardt

Iterative Phase				
Iter	**c**	**a**	**b**	**Sum of Squares**
0	3.0000	0	1.0000	144.4
1	2.2007	0.8462	1.2267	4.9804
2	2.5887	1.7888	1.2567	1.0193
3	2.4528	1.4655	1.0840	0.3902
4	2.4841	1.5171	1.0981	0.3801
5	2.4853	1.5181	1.0983	0.3801
6	2.4853	1.5181	1.0983	0.3801

The NLIN Procedure
Dependent Variable density
Method: Marquardt

NOTE: Convergence criterion met.

Estimation Summary	
Method	Marquardt
Iterations	6
R	4.664E-7
PPC(a)	2.179E-7
RPC(a)	0.000011
Object	7.32E-10
Objective	0.380095
Observations Read	176
Observations Used	176
Observations Missing	0

Note: An intercept was not specified for this model.

Source	DDL	Somme des carrés	Moyenne quadratique	Valeur F	Pr approx > F
Model	3	152.7	50.9063	23170.0	<.0001
Error	173	0.3801	0.00220		
Uncorrected Total	176	153.1			

Paramètre	Valeur estimée	Erreur type approchée	Approximate 95% Confidence Limits	
c	2.4853	0.0629	2.3612	2.6094
a	1.5181	0.0640	1.3919	1.6444
b	1.0983	0.0244	1.0501	1.1465

Approximate Correlation Matrix			
	c	**a**	**b**
c	1.0000000	0.9886728	0.9058505
a	0.9886728	1.0000000	0.9134786
b	0.9058505	0.9134786	1.0000000

Procédure NLMIXED

Procédure NLMIXED

Spécifications	
Table	WORK.EXO4
Variable dépendante	density
Distribution pour variable dépendante	Normale
Effets aléatoires	d
Distribution pour effets aléatoires	Normale
Variable sujet	rrun
Technique d'optimisation	Quasi-Newton double
Méthode d'intégration	Quadrature gaussienne adaptative

Dimensions	
Observations utilisées	176
Observations non utilisées	0
Nb total d'observations	176
Sujets	11
Max. obs. par sujet	16
Paramètres	5
Points de quadrature	1

Paramètres					
a	**c**	**b**	**s2**	**s2b1**	**Log-vraisNég**
1.5	2.48	1.09	0.001	1	-324.53274

Historique des itérations						
Itér		**Appels**	**Log-vraisNég**	**Diff**	**GradMax**	**Pente**
1		7	-324.60515	0.072403	650.1943	-119959
2		10	-324.63089	0.025744	618.1145	-9.3518
3		11	-324.88505	0.254157	387.7077	-3.76704
4		23	-331.24015	6.355101	18195.65	-0.41712
5		27	-331.68151	0.441362	17589.52	-83.5818
6		30	-340.28701	8.605501	8933.062	-49.0813
7		32	-343.31197	3.024956	4999.887	-22.73
8		35	-344.34738	1.035413	3961.964	-3.25557

Procédure NLMIXED

Historique des itérations						
Itér		**Appels**	**Log-vraisNég**	**Diff**	**GradMax**	**Pente**
9		37	-345.10086	0.753481	100.0596	-1.27705
10		41	-345.26021	0.159347	543.8062	-0.4833
11		43	-345.29595	0.035741	49.97873	-0.09486
12		45	-345.29658	0.00063	3.537667	-0.00229
13		47	-345.29677	0.000186	3.126418	-0.00039
14		49	-345.29677	1.275E-6	0.138111	-4.64E-6
15		51	-345.29677	3.406E-7	0.09204	-6.84E-7

NOTE: GCONV convergence criterion satisfied.

Statistiques d'ajustement	
-2 log-vraisemblance	-690.6
AIC (préférer les petites valeurs)	-680.6
AICC (préférer les petites valeurs)	-680.2
BIC (préférer les petites valeurs)	-678.6

Valeurs estimées des paramètres									
Paramètre	**Valeur estimée**	**Erreur type**	**DDL**	**Valeur du test t**	**Pr > |t|**	**Alpha**	**Inférieure**	**Supérieure**	**Gradient**
a	1.5210	0.04245	10	35.83	<.0001	0.05	1.4264	1.6156	0.000313
c	2.4881	0.05026	10	49.50	<.0001	0.05	2.3761	2.6001	8.601E-6
b	1.0988	0.01637	10	67.13	<.0001	0.05	1.0623	1.1352	-0.00045
s2	0.000956	0.000105	10	9.08	<.0001	0.05	0.000722	0.001191	-0.09204
s2b1	0.008585	0.003854	10	2.23	0.0500	0.05	-2.18E-6	0.01717	-0.00002