

WinNonlin Compartmental Modeling Analysis

Version 4.0.1 Build 200210171634

User-defined ASCII model:

```
MODEL
remark *****
remark Developer: Pravin Jadhav
remark Model Date: 08-07-2006
remark Model Version: 1.0
remark *****
remark
remark - define model-specific commands
COMMANDS
  NFUNCTIONS 1
  NPARAMETERS 1
  PNames 'Slope'
END
remark - define temporary variables
TEMPORARY
  Slope=P(1)
  CONC=X
END
remark - define algebraic functions
FUNCTION 1
  F= Slope*CONC
END
remark - define any secondary parameters
remark - end of model
EOM
```

Settings for analysis:

Input Workbook: C:\Data\misc\ACCP_2006\Data\WNLdata\LIN.pwo
Input Worksheet: Sheet1
Input Sort Keys: [none]
Gauss-Newton (Levenberg and Hartley) method used
Convergence criteria of 0.0001 used during minimization process
50 maximum iterations allowed during minimization process

Input data:

CONC (ng/mL)	EFF ({units})
0.05	0.01
0.06	0.01
0.06	0.01
0.08	0.01
0.08	0.01
0.09	0.01
0.09	0.01
0.12	0.01
0.14	0.01
0.15	0.02
0.15	0.02
0.2	0.02
0.23	0.02
0.25	0.02
0.25	0.02
0.34	0.03
0.38	0.04
0.41	0.04
0.41	0.04
0.56	0.06
0.62	0.06
0.67	0.07
0.68	0.07
0.92	0.09
1.02	0.1
1.11	0.11
1.12	0.11
1.51	0.15
1.68	0.17
1.83	0.18
1.84	0.18
2.49	0.25
2.78	0.28
3.02	0.3
3.03	0.3
4.1	0.41
4.58	0.46
4.98	0.5
6.77	0.68
7.55	0.75
8.21	0.82
11.16	1.12
12.45	1.24
13.53	1.35
18.39	1.84
20.52	2.05
22.31	2.23
30.33	3.03
33.83	3.38
36.79	3.68
55.78	5.58
60.65	6.07
91.97	9.2
151.63	15.16

Output data:

Initial Parameters

<u>Parameter</u>	<u>Value</u>	<u>Lower</u>	<u>Upper</u>
SLOPE	0.1	0	1

Minimization Process

<u>Iteration</u>	<u>Weighted_SS</u>	<u>Slope</u>
0	4.77E-04	0.1
1	4.77E-04	0.1
1	4.77E-04	0.1

Final Parameters

<u>Slope</u>	<u>Slope_Std Error</u>	<u>Slope_CV %</u>	<u>Slope_Uni varCI_Low er</u>	<u>Slope_Uni varCI_Upp er</u>	<u>Slope_Pla narCI_Low er</u>	<u>Slope_Pla narCI_Upp er</u>
0.099999	0.000014	0.01	0.099970	0.100028	0.099965	0.100033

Correlation Matrix

<u>Parameter</u>	<u>Slope</u>
SLOPE	1

Eigenvalues

<u>Number</u>	<u>Value</u>
1	4.37E+04

Condition Numbers

<u>Iteration</u>	<u>Rank</u>	<u>Condition</u>
0	1	1.000000
1	1	1.000000

Variance-Covariance Matrix

<u>Parameter</u>	<u>Slope</u>
SLOPE	2.06E-10

Summary Table

CONC_obs (ng/mL)	EFF_obs ({units})	CONC (ng/mL)	EFF ({units})	Predicted ({units})	Residual ({units})	Weight	SE_Yhat	Standard_Res
0.05	0.01	0.0500	0.0100	0.0050	0.0050	1.0000	0.0000	1.6668
0.06	0.01	0.0600	0.0100	0.0060	0.0040	1.0000	0.0000	1.3334
0.06	0.01	0.0600	0.0100	0.0060	0.0040	1.0000	0.0000	1.3334
0.08	0.01	0.0800	0.0100	0.0080	0.0020	1.0000	0.0000	0.6667
0.08	0.01	0.0800	0.0100	0.0080	0.0020	1.0000	0.0000	0.6667
0.09	0.01	0.0900	0.0100	0.0090	0.0010	1.0000	0.0000	0.3334
0.09	0.01	0.0900	0.0100	0.0090	0.0010	1.0000	0.0000	0.3334
0.12	0.01	0.1200	0.0100	0.0120	-0.0020	1.0000	0.0000	-0.6667
0.14	0.01	0.1400	0.0100	0.0140	-0.0040	1.0000	0.0000	-1.3334
0.15	0.02	0.1500	0.0200	0.0150	0.0050	1.0000	0.0000	1.6668
0.15	0.02	0.1500	0.0200	0.0150	0.0050	1.0000	0.0000	1.6668
0.2	0.02	0.2000	0.0200	0.0200	0.0000	1.0000	0.0000	0.0001
0.23	0.02	0.2300	0.0200	0.0230	-0.0030	1.0000	0.0000	-1.0000
0.25	0.02	0.2500	0.0200	0.0250	-0.0050	1.0000	0.0000	-1.6667
0.25	0.02	0.2500	0.0200	0.0250	-0.0050	1.0000	0.0000	-1.6667
0.34	0.03	0.3400	0.0300	0.0340	-0.0040	1.0000	0.0000	-1.3333
0.38	0.04	0.3800	0.0400	0.0380	0.0020	1.0000	0.0000	0.6669
0.41	0.04	0.4100	0.0400	0.0410	-0.0010	1.0000	0.0000	-0.3332
0.41	0.04	0.4100	0.0400	0.0410	-0.0010	1.0000	0.0000	-0.3332
0.56	0.06	0.5600	0.0600	0.0560	0.0040	1.0000	0.0000	1.3337
0.62	0.06	0.6200	0.0600	0.0620	-0.0020	1.0000	0.0000	-0.6665
0.67	0.07	0.6700	0.0700	0.0670	0.0030	1.0000	0.0000	1.0003
0.68	0.07	0.6800	0.0700	0.0680	0.0020	1.0000	0.0000	0.6670
0.92	0.09	0.9200	0.0900	0.0920	-0.0020	1.0000	0.0000	-0.6663
1.02	0.1	1.0200	0.1000	0.1020	-0.0020	1.0000	0.0000	-0.6663
1.11	0.11	1.1100	0.1100	0.1110	-0.0010	1.0000	0.0000	-0.3329
1.12	0.11	1.1200	0.1100	0.1120	-0.0020	1.0000	0.0000	-0.6663
1.51	0.15	1.5100	0.1500	0.1510	-0.0010	1.0000	0.0000	-0.3328
1.68	0.17	1.6800	0.1700	0.1680	0.0020	1.0000	0.0000	0.6674
1.83	0.18	1.8300	0.1800	0.1830	-0.0030	1.0000	0.0000	-0.9994
1.84	0.18	1.8400	0.1800	0.1840	-0.0040	1.0000	0.0000	-1.3327
2.49	0.25	2.4900	0.2500	0.2490	0.0010	1.0000	0.0000	0.3344
2.78	0.28	2.7800	0.2800	0.2780	0.0020	1.0000	0.0000	0.6679
3.02	0.3	3.0200	0.3000	0.3020	-0.0020	1.0000	0.0000	-0.6656
3.03	0.3	3.0300	0.3000	0.3030	-0.0030	1.0000	0.0000	-0.9989
4.1	0.41	4.1000	0.4100	0.4100	0.0000	1.0000	0.0001	0.0017
4.58	0.46	4.5800	0.4600	0.4580	0.0020	1.0000	0.0001	0.6687
4.98	0.5	4.9800	0.5000	0.4980	0.0020	1.0000	0.0001	0.6689
6.77	0.68	6.7700	0.6800	0.6770	0.0030	1.0000	0.0001	1.0033
7.55	0.75	7.5500	0.7500	0.7550	-0.0050	1.0000	0.0001	-1.6648
8.21	0.82	8.2100	0.8200	0.8210	-0.0010	1.0000	0.0001	-0.3303
11.16	1.12	11.1600	1.1200	1.1160	0.0040	1.0000	0.0002	1.3399
12.45	1.24	12.4500	1.2400	1.2450	-0.0050	1.0000	0.0002	-1.6647
13.53	1.35	13.5300	1.3500	1.3530	-0.0030	1.0000	0.0002	-0.9967
18.39	1.84	18.3900	1.8400	1.8390	0.0010	1.0000	0.0003	0.3421
20.52	2.05	20.5200	2.0500	2.0520	-0.0020	1.0000	0.0003	-0.6616
22.31	2.23	22.3100	2.2300	2.2310	-0.0010	1.0000	0.0003	-0.3262
30.33	3.03	30.3300	3.0300	3.0330	-0.0030	1.0000	0.0004	-0.9983
33.83	3.38	33.8300	3.3800	3.3830	-0.0030	1.0000	0.0005	-0.9995
36.79	3.68	36.7900	3.6800	3.6790	0.0010	1.0000	0.0005	0.3538
55.78	5.58	55.7800	5.5800	5.5779	0.0021	1.0000	0.0008	0.7153
60.65	6.07	60.6500	6.0700	6.0649	0.0051	1.0000	0.0009	1.7675
91.97	9.2	91.9700	9.2000	9.1969	0.0031	1.0000	0.0013	1.1553
151.63	15.16	151.6300	15.1600	15.1628	-0.0028	1.0000	0.0022	-1.3641

Diagnostics

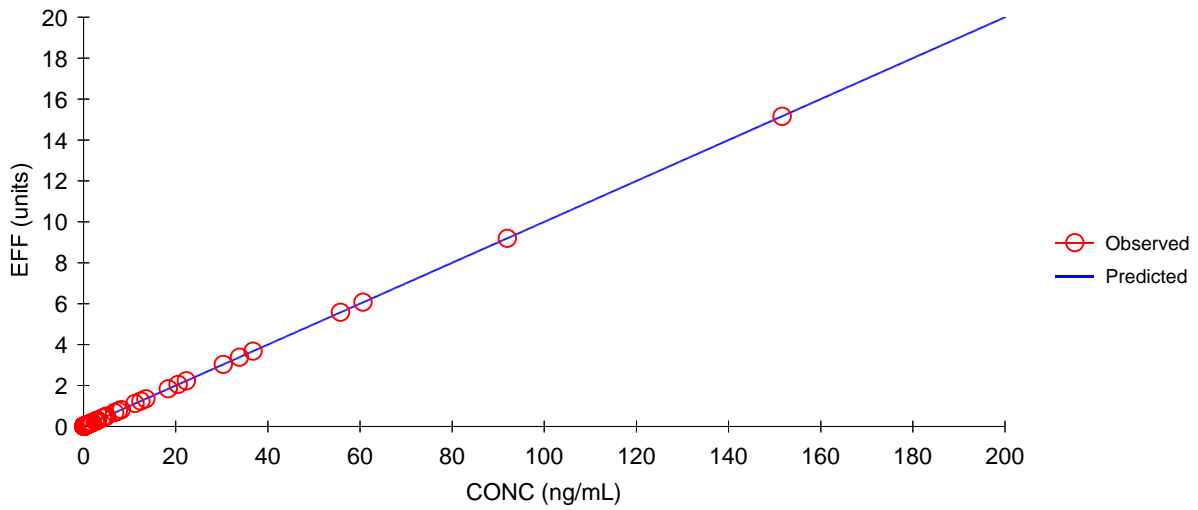
Function	Item	Value
1	CSS	364.519
1	WCSS	364.519
1	SSR	4.77E-04
1	WSSR	4.77E-04
1	S	3.00E-03
1	DF	53
1	CORR_(OBS,PRED)	1
1	AIC	-410.99901
1	SBC	-409.01003

Partial Derivatives

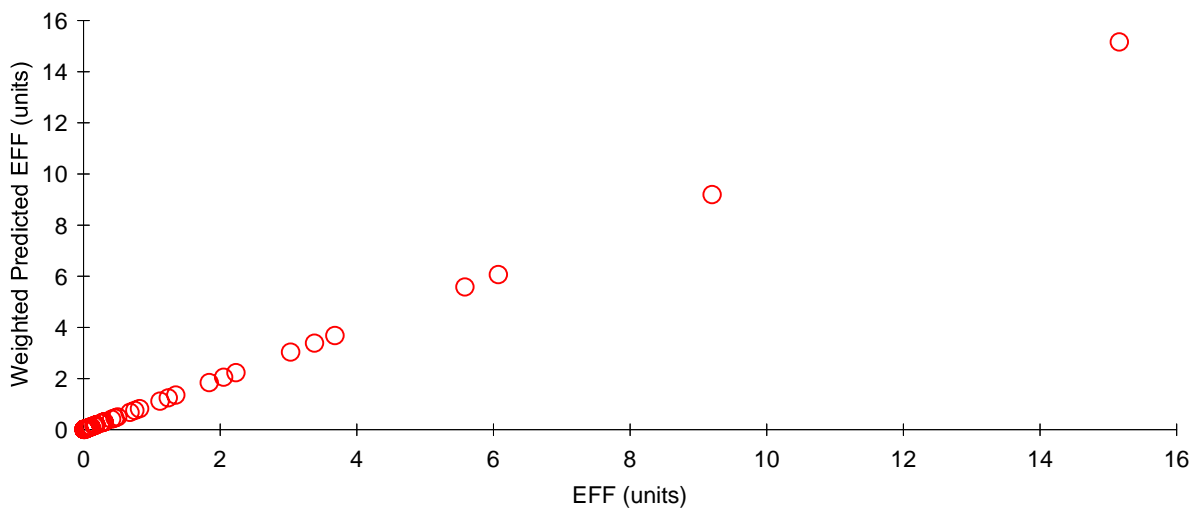
Function	Time (ng/mL)	Slope
1	5.00E-02	0.05000000
1	6.00E-02	0.06000000
1	6.00E-02	0.06000000
1	8.00E-02	0.08000000
1	8.00E-02	0.08000000
1	9.00E-02	0.09000000
1	9.00E-02	0.09000000
1	0.12	0.12000000
1	0.14	0.14000000
1	0.15	0.15000000
1	0.15	0.15000000
1	0.2	0.20000000
1	0.23	0.23000000
1	0.25	0.25000000
1	0.25	0.25000000
1	0.34	0.34000000
1	0.38	0.38000000
1	0.41	0.41000000
1	0.41	0.41000000
1	0.56	0.56000000
1	0.62	0.62000000
1	0.67	0.67000000
1	0.68	0.68000000
1	0.92	0.92000000
1	1.02	1.02000000
1	1.11	1.11000000
1	1.12	1.12000000
1	1.51	1.51000000
1	1.68	1.68000000
1	1.83	1.83000000
1	1.84	1.84000000
1	2.49	2.49000000
1	2.78	2.78000000
1	3.02	3.02000000
1	3.03	3.03000000
1	4.1	4.10000000
1	4.58	4.58000000
1	4.98	4.98000000
1	6.77	6.77000000
1	7.55	7.55000000
1	8.21	8.21000000
1	11.16	11.16000000
1	12.45	12.45000000
1	13.53	13.53000000

1	18.39	18.39000000
1	20.52	20.52000000
1	22.31	22.31000000
1	30.33	30.33000000
1	33.83	33.83000000
1	36.79	36.79000000
1	55.78	55.78000000
1	60.65	60.65000000
1	91.97	91.97000000
1	151.63	151.63000000

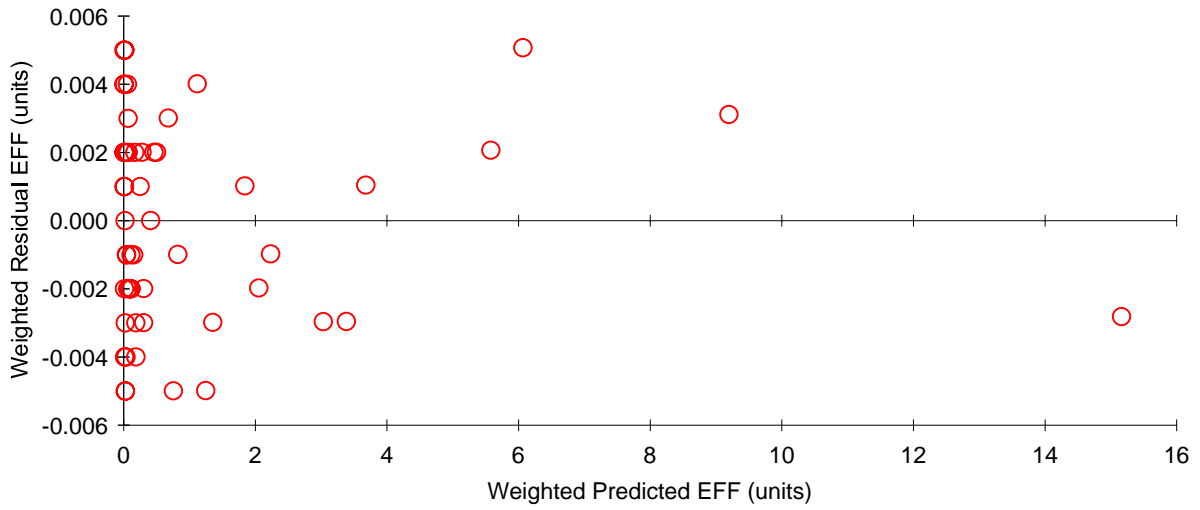
X vs. Observed Y and Predicted Y



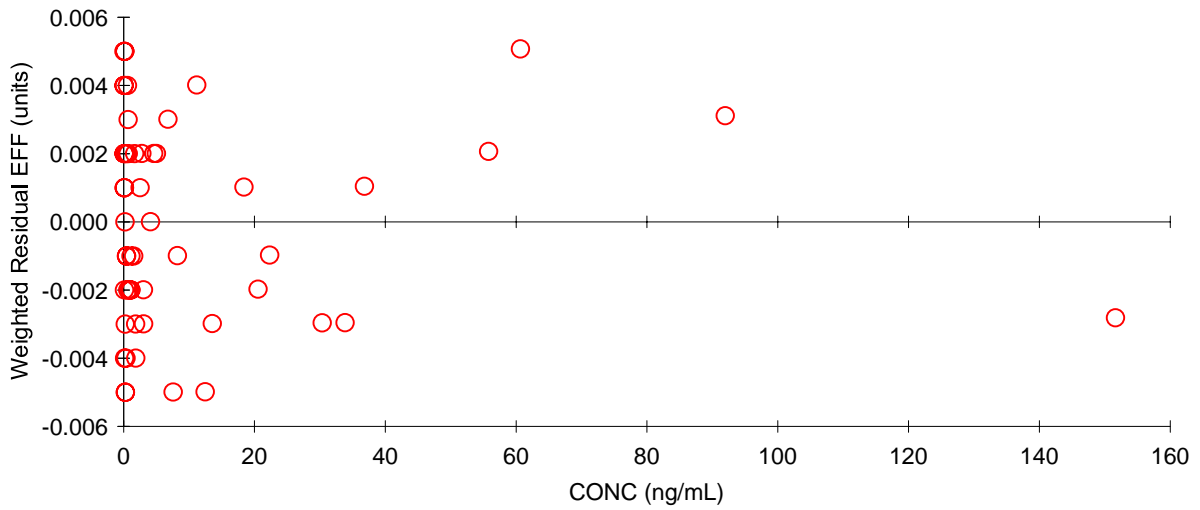
Observed Y vs. Weighted Predicted Y



Weighted Predicted Y vs. Weighted Residual Y



X vs. Weighted Residual Y



Partial Derivatives

