The pfit solution values are

pfit =

3.8483e+00

1.1200e+03

BEGIN RESIDUAL ANALYSIS TESTS

Gaussian process models about the data fit should satisfy the conditions

residual mean = -0.24578 approx 0.10359 = residual median

residual STD = 4.6285 approx 3.6683 = residual MAD

Randomness test that the ratio of positive to negative res1d = 0.51485 is close to 0.5

No residual trend indicated if the trend threshold = 95 > 0 = autocorrelation

BEGIN BOOTSTRAP ANALYSIS

mean pfit 95% CI delta

3.9696e+00 1.3252e-01

1.1145e+03 1.3336e+01

Correlation coefficients

1.0000e+00 -6.6065e-01

-6.6065e-01 1.0000e+00

BEGIN LOCAL IDENTIFIABILITY HESSIAN ANALYSIS

Hessian

6.2643e+02 4.8574e+00

4.8574e+00 5.5892e-02

Fisher information matrix

6.1430e+02 4.7720e+00

4.7720e+00 5.5600e-02

The norm of the gradient = 0.00016636 should be small at the minimium

The condition number of the Hessian = 34370.9356

should be < 2097152 for all variables to be structually identifiable

The parameters

'init' 'K\_v'

are structually identifiable

The parameters

'init' 'K\_v'

are practically identifiable

The vectors 1 2 are structually identifiable

The vectors 1 2 are practically identifiable

Singular values

6.2647e+02 1.8227e-02

The vectors spanning the stuctural identifiable space are

-9.9997e-01 -7.7540e-03

-7.7540e-03 9.9997e-01

BEGIN EXTENDED IDENTIFIABILITY PROFILE ANALYSIS

res\_profile

Columns 1 through 6

1.8012e+04 1.0367e+04 6.3416e+03 4.1069e+03 2.8930e+03 2.3122e+03

1.2366e+04 9.1551e+03 6.9938e+03 5.4168e+03 4.2766e+03 3.4650e+03

Columns 7 through 12

2.1484e+03 2.2707e+03 2.5952e+03 3.0657e+03 3.6440e+03 4.3027e+03

2.9023e+03 2.5290e+03 2.3002e+03 2.1820e+03 2.1484e+03 2.1794e+03

Columns 13 through 18

5.0218e+03 5.7861e+03 6.5843e+03 7.4079e+03 8.2504e+03 9.1067e+03

2.2596e+03 2.3771e+03 2.5223e+03 2.6881e+03 2.8686e+03 3.0594e+03

Columns 19 through 20

9.9732e+03 1.0847e+04

3.2569e+03 3.4584e+03

BEGIN GLOBAL IDENTIFIABILITY ANALYSIS

variance of variables 7.5336e-11 6.0763e-08

all variables are identifiable